

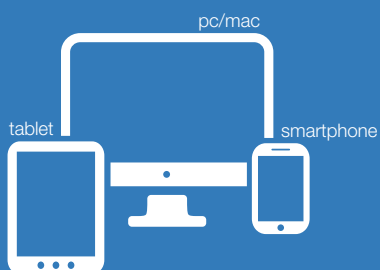
# 2022

ANNUAL REPORT  
INTEGRATED REPORT



*This document is provided in addition to the ESEF version required by European Commission Delegated Regulation 2019/815, published and filed in accordance with the law.*

An interactive version of this Annual Report, including additional multimedia content, is available for various devices on our website at [www.terna.it](http://www.terna.it) and is compatible with both Apple and Android systems.



## Key

access the document  

access the web  

multimedia content



# Driving Energy

We are Europe's largest independent electricity transmission system operator.

We are engaged in **driving and enabling the ecological transition** in order to create a new development model based on renewable sources and respect for the environment.

Sustainability, innovation and distinctive competencies are behind everything we do, with the aim of providing the generations to come with a clean, accessible and emission-free energy future.

We have the major responsibility for providing the country with energy, ensuring **security, quality and cost-effectiveness over time**.

We manage Italy's high-voltage electricity transmission grid, one of the most modern and technologically advanced in Europe, which we are working to **develop and integrate with the European grid**, guaranteeing secure and **equal access to all grid users**.

We are developing **Non-regulated Activities** and new business opportunities, making our expertise and experience available in Italy and overseas.





# Letter to stakeholders

Dear shareholders and stakeholders,

2022 proved to be an extremely challenging year. The tragic events in Ukraine provoked a further rise in commodity prices, fuelling inflation and, for the first time in decades, raising doubts about the very concept of energy security in Italy.

The war in Ukraine and the resulting global energy crisis have thus meant that Italy was faced with the inescapable need to commit to reducing as far as possible the country's dependence on fossil fuels and increasing national energy security, in line with the European Union's decarbonisation targets. Terna has thus stepped up its commitment to delivering for the country and its people, in keeping with our role in **driving the energy transition**. Our goal is to guarantee a more sustainable, efficient high and very high voltage national transmission grid, capable of maximising the integration of energy produced from renewable sources such as sun and wind, both of which Italy has in abundance.

Despite the difficult backdrop, thanks to the commitment shown by the over 5,400 people who work for the Company, Terna recorded **improvements across all its financial performance measures**, including a major increase in investment in our core business of electricity infrastructure. As a result, 2022 saw us obtain **consents for 29 development projects** for the national transmission grid **with a value of over €2.5 billion**: more than double the record amount of 2021 and almost ten times the amount for 2020.

In March, we updated the **Driving Energy Industrial Plan for the period 2021-2025**, further accelerating investment, which is now due to total **€10 billion over the five years**. During the year, we also made significant progress towards completing the most important of the projects planned by Terna, the **Tyrrhenian Link**. In September, we received the go-ahead to start work on the 'East Section' of the submarine connection between Campania and Sicily, whilst also formally starting the process of obtaining consent for the 'West Section' linking Sicily with Sardinia. 50% of the total cost of this infrastructure, which is of strategic importance for Italy's electricity system, is covered by a loan obtained from the European Investment Bank in November.

Other work on the upgrade and development of the national transmission grid also proceeded according to plan: these are all essential works that will enable Italy to achieve the goals set at European and national level. These include the **restructuring of the electricity grid in various metropolitan areas around the country**, the start-up of work on the **Colunga-Calenzano** backbone between Emilia-Romagna and Tuscany and modernisation of the high-voltage grid in the locations due to host the Winter Olympics in 2026.

**Cross-border interconnections** play an equally important role, optimising exchange capacity and enabling Italy and neighbouring countries to come to each other's assistance when needed. By virtue of its geographical position, Italy has the potential to become the **electricity hub for Europe and the Mediterranean area**. For this reason, we plan to deliver new cross-border power lines in addition to the 26 already in operation. Among the new connections, we have formally begun the consents process for the **submarine connection that will link Sicily and Tunisia**. This is a strategic project and has, of itself, already set a historical precedent, given that it is being part financed by the European Union and this is the first time that EU funds are being used to finance infrastructure developed by a member state and by a state that does not belong to the European Union.

As well as being crucial for decarbonisation, development of the power grid confirms the strength of Terna's commitment to a just energy transition, which puts sustainability at the heart of the value creation process, bringing benefits for the Company, the wider system and the environment. In fact, **99% of the projects** that we have included in the updated Industrial Plan **qualify as sustainable in nature** based on the eligibility criteria in the EU Taxonomy. For us, being sustainable means adopting an approach that ensures that the electricity infrastructure we build is well integrated into the surrounding environment and is the result of continuous engagement and dialogue with local communities and the bodies and authorities that represent them. This is why we have set a world first by adopting the evaluation criteria in the

Envision protocol, which measures and certifies how green and resilient projects are. Our sustainability strategy, which remains tied to the 10 Global Compact principles that we have applied since 2009, takes into account all ESG aspects, an essential requirement if we are indeed to deliver a just transition. This is an ongoing commitment involving many aspects of our business, from defending the environment to circular economy initiatives and conversion of the Company's vehicle fleet to electric, from gaining the benefits of inclusion to safeguarding diversity and preventing all forms of discrimination. Our leadership in sustainability has been acknowledged by the main ESG rating agencies, who have confirmed **Terna's inclusion in the leading sustainability indices** and its rating as a **top performer**: notably, in S&P Global's **Corporate Sustainability Assessment 2022**, Terna was the highest ranked among the 250 electric utilities rated.

Our people, who are of fundamental importance to Terna, have been involved in the continued rollout of new ways of working. This focuses on the digitalisation of corporate processes and sustainability with a view to delivering greater efficiency and productivity, logistical benefits and an improved work-life balance. We have developed sustainable mobility projects for our people, and **innovative training initiatives such as the Terna Academy research hub**, created to strengthen and enhance the distinctive competencies possessed by the members of Terna's workforce and key to delivering a sustainable, zero-carbon future. We have laid the foundations for responding to the growing complexity of the grid of the future, which will be managed with ever greater efficiency with the aid of technology and, above all, the **new technical and digital skills that we aim to develop by launching the Tyrrhenian Lab**. We have invested €100 million over 5 years in a centre of training excellence, distributed in the three cities where the submarine cables forming the Tyrrhenian Link will make landfall. In doing this, we aim to train people for the **new roles that will drive the acceleration of the energy transition process**.

In the coming years, **innovation, new technologies** and **digitalisation** will continue to play a key, increasingly central role in the management of energy infrastructure, the main enabling factor for the energy transition. In this regard, the above update of the Industrial Plan has also boosted investment in technology and digital, allocating **approximately €1.2 billion** for this purpose out of the total amount of €10 billion. This acceleration of innovation also saw Terna take its first steps, in December, in the world of corporate venture capital via the **establishment of Terna Forward**, a new Group company set up with the aim of investing in start-ups and small, medium and large enterprises with high innovation and technological potential. In addition, after the success of the first edition, we have launched the **second edition of the corporate entrepreneurship programme, Terna Ideas**, in which sustainability, confirming its crucial role in our business, has become one of the key criteria in the proposition and assessment of innovative ideas. Internationally, we have concentrated on strengthening **collaboration with leading universities in the United States** to drive research and development in the field of innovative solutions for the future of the electricity sector. This forms part of a more general strategy of **strengthening our international presence** in a market with attractive growth potential, such as the USA.

Finally, we launched the **Driving Energy Contemporary Photography Prize** with the aim of supporting and promoting the country's cultural development through a competition open to all photographers in Italy. This represented a further contribution to development of the local areas and communities in which we operate.

The extremely satisfying results we have achieved during a difficult and challenging year are down to the **excellence of our people**. Terna's leadership and its strategic role - ever more widely acknowledged by the country and its people - are founded on their professionalism and expertise. Our people have played a decisive part in achieving the Group's objectives so far and will play an even bigger role in the coming years, as we drive Italy towards the transition and energy independence and generate value for the Company and all its stakeholders.

**Valentina Bosetti**  
Chairwoman

**Stefano Antonio Donnarumma**  
Chief Executive Officer



# Presentation of the Annual Financial Report 2022

2-3 > The Terna Group's Annual Report for 2022 contains Integrated Report to fully espouse an approach based on  
2-5 > "Integrated thinking". This means that the Report includes in a single document the Report on Operations, the Sustainability Report and the Consolidated Non-financial Statement<sup>1 2</sup> (the NFS), in addition to the consolidated financial statements, the Parent Company's separate financial statements and the Green Bond Report. Bringing together all the various disclosures in a single document meets the growing need to provide all the Group's stakeholders with clear, complete and balanced reporting on the Group's business and value creation process.

The value creation process is the only measure of the sustainable wealth and financial and sustainable benefits produced by the Company and is the common thread running throughout this Report. This is why the KPIs measuring the inputs, outputs and outcomes, described in the value creation process and relevant to each section of the Integrated Report, referred to in the document separators, ensuring measurability and comparability of the data over time.

The Integrated Report includes a number of QR codes and hyperlinks providing additional information on certain topics and taking the reader directly to specific pages on Terna's website at [www.terna.it](http://www.terna.it).

The Integrated Report also coincides with the Group's Communication on Progress (CoP)<sup>3</sup>, the document that all members of the United Nations Global Compact are required to publish. The document is designed to inform stakeholders on the actions members have taken during the year to advance and support the values expressed in the ten Principles and on progress towards achieving the sustainable development goals (SDGs) set in the 2030 Agenda.

In line with international best practices, Terna's Integrated Report applies the framework published by the International Integrated Reporting Council (IIRC). The Report presents the operating, financial and sustainability performances within a more complete vision of the process of creating value over time, starting from the Company's specifics. It looks at governance and the resulting ability to define a strategy capable of interacting with the external environment and pursuing the organisation's sustainable success through responsible use of the available capitals and risk management able to mitigate potential threats whilst, at the same time, taking advantage of new growth opportunities.

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<sup>1</sup> The Terna Group's NFS has been prepared in compliance with the provisions of Legislative Decree 254/2016, as amended. It contains disclosures on the matters deemed material and provided for in art. 3 of the above Decree, to the extent necessary to enable readers to gain an understanding of the Group's activities, its performance, results and the related impacts. As required by Regulation 852/2020, the NFS also includes the taxonomy disclosure.

<sup>2</sup> The NFS, prepared using the GRI reporting standards "in accordance with" version, was subject to a limited assurance by Deloitte & Touche S.p.A., resulting in a specific "Assurance report", as required by the provisions of articles 3 and 4 of Legislative Decree 254/2016. The opinion of the auditing firm and the related assurance activities did not concern the disclosure relating to the "material performance indicators envisaged in the supplement for the Electric Utility sector (EUSS)", the "other published GRI performance indicators" reported on page 210, the "Key indicator tables", published in the "Sustainability" section of the website at [www.terna.it](http://www.terna.it).

<sup>3</sup> See the UNGC site at the following link: <https://www.unglobalcompact.org/what-is-gc/participants/11215>.





Non-financial information is prepared using the GRI (Global Reporting Initiative) reporting standards. When possible, reference is also made to the matching SASB (Sustainability Accounting Standards Board) criteria, the standard used by financial stakeholders located in North America.

The Integrated Report has also been prepared taking into account the Terna Group's membership of the Task Force on Climate-Related Financial Disclosures – TCFD. The document thus includes a reconciliation (page 71) to help the reader identify all the sections containing information on the recommendations.

In addition, in line with the materiality principle, where the methods applied in the IIRC framework, the GRI standards and Legislative Decree 254/2016 meet, all the information reported corresponds with a topic identified as significant in the Materiality Analysis conducted in December 2022. The resulting “materiality matrix”, shown in summary form on page 46, identifies the topics that are significant for Terna and for its stakeholders.

The sustainability performances represented by a GRI KPI are, as is usual, immediately identifiable by a cross-reference to the related code in the margin of the text. Similarly, the topics included in the materiality matrix are also indicated by a cross-reference showing the related classification.

This Annual Report for 2022 was approved by Terna S.p.A.'s Board of Directors on 22 March 2023.

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#### DISCLAIMER

*The Annual Report contains forward-looking statements based on plans, estimates, projections and current projects that by their nature involve risks and uncertainties and that are current only as of the date on which they are made. Various factors may mean that the actual results and provisions made by the Company differ substantially from those contained in any forward-looking statement. These factors may include, by way of example but not limited to: trends in the Company's business, the Company's ability to implement planned cost efficiencies, changes in the regulatory framework, differing interpretations of laws and regulations, the ability to successfully diversify and the expected level of future investment.*





# INTEGRATED REPORT



# Terna's role in the just transition

The electricity system is made up of several segments: production, transmission, distribution and the sale of electricity. Tasked with **transmission** and **dispatching**, Terna is responsible for the key transmission segment. As Transmission System Operator (TSO), Terna must on the one hand design a grid capable of handling the progressive decarbonisation of the sources of production and the growing integration of renewables (**transmission operator**), whilst on the other guaranteeing that, at all times, energy demand from consumers is always balanced by the amount produced through so-called “dispatching” (**system operator**).

This is a complex task, requiring an independent central coordinator capable of having an overall view of a high number of actors involved in both production and consumption. This is why Terna refers to itself as **driving the energy transition** towards a new decarbonised model.

Terna is aware of the fact that the goal of decarbonisation must be addressed by taking into account not only the environmental aspects, but also the social dimension in order to deliver a **just transition** that is as fair and inclusive as possible. In this sense, a multistakeholder approach, involving all the players that have an impact on and are impacted by the transition is of fundamental importance. The process must therefore include, for example, trade bodies, civil society and stakeholders through partnerships, roundtable discussion and engagement initiatives.

The transition to a distributed production system based on renewable sources is rapidly altering the market, resulting in exponential growth in active resources connected to the grid. Managing requests for connection to the HV grid, coming from entities proposing renewable initiatives, enables Terna to have a systematic view of the current situation and future scenarios. In this way, the TSO **can monitor the system's ability to meet demand for electricity** whilst satisfying **security** and **quality of service requirements**, in a word, ensuring the system's “adequacy”.

The European Union (Regulation (EU) 2021/1119) has targeted net zero by 2050, with **an intermediate target of cutting greenhouse gas emissions by at least 55% by 2030**. The EU's new legislative package, **Fit for 55**, has set new challenges for the electricity sector: at national level, **by 2030 it will be necessary to install approximately 70 GW of additional renewable capacity** so that renewable sources account for at least 65% of final consumption. These greenhouse gas emission reduction targets have recently been joined by the need to become independent from Russian fossil fuels, as described in the **RepowerEU** plan.

**As of 31 December 2022**, Terna had received applications for connection to the national transmission grid (NTG) for **over 311 GW of new renewable capacity**, compared with installed capacity of approximately 63.9 GW. The majority of the applications were from southern Italy and the islands (80% of total applications), locations renowned for being windier and sunnier. To continuously monitor all these initiatives, Terna, in collaboration with the Ministry of the Environment and Energy Security, launched the new digital platform called **Econnexion**<sup>4</sup> in February 2023. This an important new consultation tool enabling operators in the sector to share information on the **regional and local distribution** of requests for the connection of renewables to the HV grid, broken down by source (**onshore and offshore wind and photovoltaic**).

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<sup>4</sup> <https://www.terna.it/it/sistema-elettrico/rete/econnexion>

**From the point of view of transmission**, to achieve this fresh injection of renewable energy into the grid will require a major effort to plan, approve and carry out investment projects on a scale not seen in recent decades in Italy. Terna has responded by further accelerating work on key investment projects of most importance to the electricity system, with the Company's most ambitious Grid Development Plan ever: the 2023 Plan, presented on 15 March 2023, envisages investment of over €21 billion over the ten years from 2023 to 2032.

**An extremely complex challenge.** Terna plays a central role in this energy transition, both in enabling the electricity system's transition towards renewable sources and in coordinating this transformation process. **The electricity grid is the main enabling factor** in achieving the **global goal of decarbonisation**.

**What does this mean?** Achieving the ambitious European and international goals will obviously require the participation of all members of society, but the energy sector must take the lead, given that it is by a long way the biggest producer of emissions at global level. Just to get an idea, the energy sector accounts for approximately 82% of Europe's total greenhouse gas emissions.

Under the European Green Deal, the net zero emissions target is to be achieved in two main ways: by increasing use of renewables and through growing electrification of consumption. In this sense, an essential role in all the various scenarios designed to arrive at carbon neutrality is played by **the key tool of energy efficiency**.

Introducing the "energy efficiency first" principle, the European Commission invited member states to include this principle in all their decisions regarding policy, planning and investment. In this way, in keeping with the EU's long-term strategy, final energy consumption in Europe is expected to fall by (at least) 35% by 2050 compared with 2019 levels.

The key consideration, in this sense, is that electricity will be the main energy carrier and the electricity grid will operate as the backbone for decarbonisation for all the other energy sectors. This reflects the carrier's intrinsic efficiency and the technological maturity of renewable energy sources (RES). These topics all form the basis of the corporate advertising campaign **Noi Siamo Energia**, launched by Terna in December 2022 in consultation with the Ministry of the Environment and Energy Security, with the aim of raising awareness among the public and businesses of the need for the conscious, rational and attentive use of electricity in Italy.

Climate targets also play a key role in the **United Nations 2030 Agenda for Sustainable Development**, not only because SDG 13 focuses explicitly on the climate, but above all because dealing with the climate crisis and guaranteeing, therefore, a healthier planet for the future, is key to enabling the world to achieve all the other goals contained in the Agenda. This means delivering truly prosperous, long-lasting development as part of a just transition.

Awareness of the Company's role as a driver and enabler of the current ecological transition coincides with Terna's wish to further strengthen its environmental strategy. Adoption of a Science Based Target (SBT) with the aim of cutting its CO<sub>2</sub> emissions based on measurement of the existing situation and the planning of concrete actions, validated by a third-party entity, turns a good intention into a real, concrete contribution to containing the rise in the global temperature, in line with the Paris Climate Accords of 2015.

 For additional information, go to page 252 

# An overview of 2022

(€m)

Revenue  
**2,964.5**  
+13.8%

Profit attributable to owners of the Parent  
**857.0**  
+8.6%

Net debt  
**8,576.3**

EBITDA  
**2,059.2**  
+11.0%

Capital expenditure  
**1,756.8**  
+15.5%



FINANCIAL  
CAPITAL

Successful launch of the first ever Italian corporate issue of **non-convertible, perpetual, subordinated hybrid green bonds** for institutional investors, amounting to a nominal value of

**€1 billion**

and launch of a **bond issue** in the form of a **Private Placement** amounting to

**€100 million.**

Renewal of **€9 billion Euro Medium Term Note (EMTN) Programme**

Agreements for five **Credit Facility Agreement ESG linked** amounting to

**€900 million** and a

**€500 million loan**

from the **European Investment Bank** to fund the **“Tyrrhenian Link”** project (East section).

**S&P and Moody’s reaffirmed their long-term ratings**, downgrading the outlook following a downgrade of Italy’s sovereign rating.

The **first two transaction closings for the sale** of all the Terna Group’s electricity transmission assets in South America to CDPQ<sup>5</sup>, regarding the first **three projects in Brazil and the project in Uruguay**, for a price of over **€172 million** took place on 7 November and 22 December 2022. This was in execution of the preliminary agreement, signed on 29 April, for the **sale of all the Group’s power transmission assets in Brazil, Peru and Uruguay** for a total of over **€265 million**

<sup>5</sup> Caisse de dépôt et placement du Québec (CDPQ).





**29** new initiatives for the future development of the electricity grid were authorised: a total value of over **€2.5 billion**.

Entering service on the NTG: **192** km of new power lines and **5** new substations.

**Terna, Lazio Regional Authority and Rome City Council signed a Memorandum of Understanding:** for the deployment of four “invisible” underground connections extending for a total of around 25 km, involving investment of over **€60 million**.



The consents process for the **East Link section of the Tyrrhenian Link** was completed and the consents process for the **West Link section of the Tyrrhenian Link** also began. September saw the launch of the **Tyrrhenian Lab** in the three regions where the link will make landfall, offering a masters course in collaboration with the **Cagliari, Salerno and Palermo** universities: between 2022 and 2025, training will be provided for **over 150 professionals** with strategic expertise that will play a key role in the energy transition.

The Ministry of the Environment and Energy Security began the consents process for **Terna’s new 600 MW direct current electricity interconnector linking Italy and Tunisia**, and connecting Europe with Africa. The **EU Commission** has approved funding of **€307 million to co-finance** the infrastructure (with a total value of €850 million).

For additional information, go to page 118



**New memoranda of understanding were signed with the environmental groups, Greenpeace Italia, Legambiente and WWF Italia** for the development and deployment of increasingly sustainable electricity infrastructure integrated within the surrounding areas and respecting the environment and biodiversity.



Deployment of **Econnexion**, the first digital platform on requests for connection to the electricity grid from renewable energy plants in Italy.

## ELECTRICITY SYSTEM

**Demand**  
**317\*** TWh  
-1.0%

**Percentage of demand met from RES**  
**31\*** %  
-13.1%

**RENS quality**  
**240\*** MWh  
vs target 791

**Cost of quality**  
**€ 1.9** m  
-67.8%

Performance well below the targets set by ARERA

\* Provisional data.

## An overview of 2022



HUMAN  
CAPITAL

**5,497** employees

(+361 versus 2021)

**242** people under 30 hired

**2.9** Terna's injury rate

(+11% versus 2021)

**0.11** Terna's serious injury rate

(+31% versus 2021)



INTELLECTUAL  
CAPITAL

**16** patents obtained and  
**30** applications filed  
through to 2022

**67** projects in the  
innovation portfolio



SOCIAL AND  
RELATIONSHIP CAPITAL

**73.7%** of community  
initiatives in line with  
SDGs 4, 7, 9 and 11

**483** meetings  
with local authorities



NATURAL  
CAPITAL

**91%** of waste is recycled

SF<sub>6</sub> leakage rate of **0.41**  
as a percentage of the total installed

## Terna's inclusion in international ESG indices



**Dow Jones Sustainability World Index and Dow Jones Sustainability Europe Index**  
Included for the fourteenth year running.



**STOXX® Global ESG Leaders**  
Included for the twelfth year running, having been assigned a “Negligible Risk” – the best possible – rating by Sustainalytics.

### MIB 40 ESG

Confirmed as a member of the index, launched in 2021 and focusing on ESG best practices.

### Euronext Vigeo

Included in the indices since 2012 with an “advanced” rating, the highest ranking possible.



**Bloomberg Gender Equality Index (“GEI”)**  
Reconfirmed for the fifth consecutive year.

### Standard & Poor's Gender Equality & Inclusion Index

Included in the index since April 2022.

### Euronext Equileap Gender Equality Eurozone 100

Included in the index launched in November 2022.

### Euronext ESG Eurozone Biodiversity Leaders PAB Index

Included among the 65 best performers with respect to this issue.



FTSE4Good

### FTSE4GOOD

Included for the eighteenth year running in this index that selects the best global companies based on sustainability criteria.

For additional information, go to page 170



In June 2022, Terna received the **Business International Finance Award 2022** in the “Non-financial indicators, ESG and Sustainability Report” category for the Company's 2021 Integrated Report, presented for the first time alongside the announcement of approval of last year's results.

The Terna Group was again adjudged to be leading the way for sustainability at global level, having **ranked among the companies in the “Top 1%” in the Sustainability Yearbook 2023**. Thanks to an **excellent score of 91 (out of 100) assigned by S&P Global in its “Corporate Sustainability Assessment 2022”**, Terna was the highest ranked among the 250 electric utilities rated, which obtained an average score of 50.

Terna was **ranked number one in the 2022-2023 edition of Webranking Europe 500**: this is the third year running in first place in the European rankings based on the quality and transparency of the digital communication of listed companies.

Terna has been awarded the **“Areté Prize” for Internal Communication**, in recognition of the Company's intensive, ongoing efforts to involve employees in **social and environmental issues**. The prize was awarded for the “EcoTips: good sustainability practices” project, designed to promote ethical conduct and sound environmental practices.

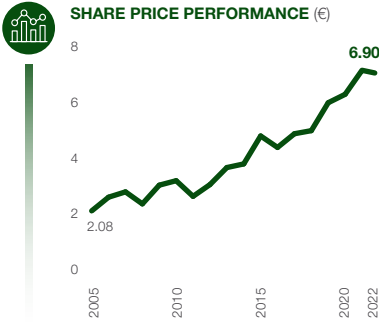
For additional information, go to page 252



# Group milestones

**1962  
2005**

**2006  
2016**



## DEVELOPMENT OF THE ITALIAN ELECTRICITY SYSTEM

### From nationalisation to reform of the Italian electricity system.

Terna's principal activities are rooted in Italy's history: on 6 December 1962, Law 1943 paves the way for nationalisation of the electricity industry, handing ENEL (Ente Nazionale Energia Elettrica) responsibility for all the stages of the electricity supply chain (production, transmission and distribution), previously in private hands, in order to facilitate the country's electrification.

## DEVELOPMENT OF THE NATIONAL TRANSMISSION GRID AND NEW BUSINESS OPPORTUNITIES

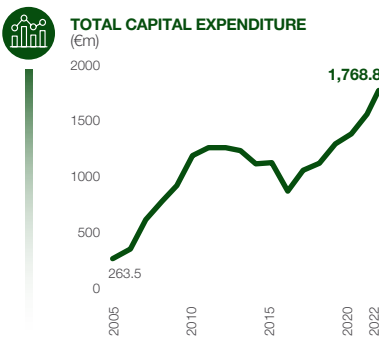
### "Utili per il Paese" ("Working for the country"), Terna's new role.

Having taken on the dual roles of TSO and SO, Terna's role evolves as it becomes a provider of strategic infrastructure for the country, as expressed in the payoff, "Working for the country".

This period sees the Company progressively expand the NTG. Following the acquisition of 18,600 km of high-voltage lines from ENEL in 2009, Terna owns 98.6% of the national grid and becomes the leading independent grid operator in Europe and the seventh largest in the world. **In 2015, Terna acquires the Ferrovie dello Stato group's high-voltage grid**, consolidating its leadership in Europe with approximately 72,600 km of grid managed.

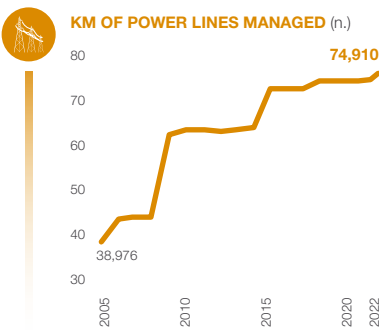
At the same time, Terna plans and delivers major new 380kV connections to bring the transmission grid into line with the country's energy needs: the Chignolo Po-Maleo (Lombardy) and the SA.PE.I submarine connection (from Sardinia to the Italian mainland) enter service in 2011, whilst the Trino-Lacchiarella (Lombardy) and Villanova-Gissi (Abruzzo) lines and the submarine connection linking Sorgente and Rizziconi (Calabria-Sicily) enter service in 2014 and 2016, respectively.

In keeping with changes in the operating environment, the Group is restructured with the establishment of **two new operating companies in 2012: Terna Rete Italia S.p.A.** for Regulated Activities, and **Terna Plus S.r.l.** to drive the growth of services in the Non-regulated sector. Tamini, an Italian leader in the design, production, commercialisation and repair of power transformers for electricity transmission and distribution grids, of industrial transformers for the steel and metals industry and of special transformers for converters used in electrochemical production and electrolysis, joins the Terna Group in 2014.

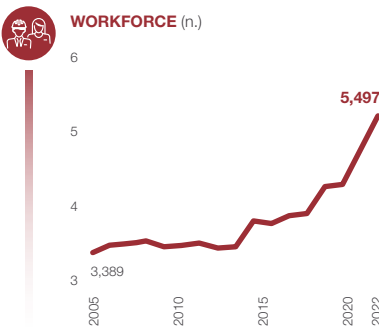


In the second half of the 1990s, the European Union embarks on a process of deregulation aimed at making grid management independent. In Italy, this leads to the issue of Legislative Decree 79/1999 (the so-called "Bersani Decree"), marking a starting point for reform of the Italian electricity market with the separation of ownership of the National Transmission Grid (NTG) from management of the grid itself (transmission and dispatching) along the lines of the Independent System Operator (ISO) model.

**Terna is established in 1999.** ENEL consists of two distinct companies: Terna S.p.A., assigned ownership of over 90% of the NTG, and GRTN ("Gestore della Rete di Trasmissione Nazionale"), which at this time manages electricity transmission and dispatching and planning for the development of the NTG.



The Cabinet Office Decree of 11 May 2004, in application of Law 290/2003, establishes the electricity exchange and **brings back ownership and management of the transmission grid under the control of one entity.** This process is completed in 2005, with the transfer to Terna of the GRTN business unit relating to transmission and dispatching and the award of the **concession** to carry out these activities throughout the country by the Ministry of Productive Activities: Terna thus becomes Italy's Transmission System Operator (TSO).



On 24 June 2004, 50% of the Company's share capital is floated on the Italian Stock Exchange and, in September 2005, Cassa Depositi e Prestiti acquires a 29.99% stake, thereby becoming the relative majority shareholder.

2017  
2019

2020  
2023

**ENABLING THE ENERGY TRANSITION**

**Energy is our responsibility. Responsibility is our energy.**

The 2010s end with an accelerating shift towards a new energy paradigm that requires Terna to assume an ever more central role in the electricity supply chain.

With the entry into service of the Sorgente-Rizziconi submarine connection, Terna removes the last major bottleneck at zonal level and, with the 2017-2021 Strategic Plan, begins a new chapter in its history by focusing on the **role of the National Transmission Grid in enabling the energy transition.**

Further priorities for Terna are to strengthen Italy's electricity infrastructure, add further exchange capacity between the different areas that make up the Italian electricity market and increase overseas interconnections, with the Company, year after year, presenting ever more ambitious strategic plans, featuring significant growth in investment.

Work begins on major electricity infrastructure projects, such as SA.CO.I 3 (connecting Sardinia, Corsica and the Italian mainland) and the Italy-Austria interconnector, whilst the Italy-Montenegro interconnector, at 445 km the longest ever connection ever built by Terna, is completed. It is the first electricity bridge between Italy and the Balkans, a key link that will enable Italy to reinforce its role as a **European and Mediterranean electricity transmission hub.**

From 2018, Terna funds its investment in infrastructure using new financial instruments: in July, the Company becomes the first Italian utility to issue green bonds, successfully placing its first Green Bond worth a total of €750 million, followed by a further three issues with a total value of €2 billion.

**AT THE HEART OF THE TRANSFORMATION**

**Driving energy.**

Terna owned **99.9%** of the NTG in 2021 after purchasing portions of the grid from other operators.

Featuring total investment of €10 billion, the **updated Industrial Plan for the period 2021-2025, "Driving Energy"**, presented to the market in March 2022, strengthens Terna's role in driving the Italian electricity system.

The **Development Plan**, presented in March 2023, is the most ambitious ever, with **total investment due to total over €21 billion in the ten years between 2023 and 2032.**

Tangible evidence of the Company's commitment to developing the electricity grid is also provided by the **projects for which consents were obtained in 2022**, amounting to a record of **over €2.5 billion.** The most important contribution comes from the green light given to the **East section of the Tyrrhenian Link**, the section of submarine power cable that will connect Campania and Sicily at a cost of **over €1.9 billion.**

In December 2022, the Ministry of the Environment and Energy Security gives a green light to the start of the consents process for Terna's **new electricity interconnector between Italy and Tunisia**, a historic project in which the Company will invest approximately €850 million, including €307 million funded by the European Union's Connecting Europe Facility (CEF).

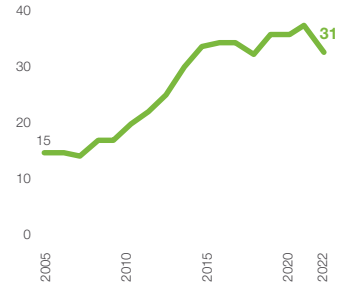
The same month sees the launch of a **corporate advertising campaign called Noi Siamo Energia**, launched by Terna in consultation with the Ministry of the Environment and Energy Security, with the aim of **promoting the conscious use of electricity in Italy.**

Confirmation of the Company's strategy of combining sustainability with growth to enable the energy transition is provided in February 2022, when Terna successfully issues its **first hybrid green bond worth €1 billion.**

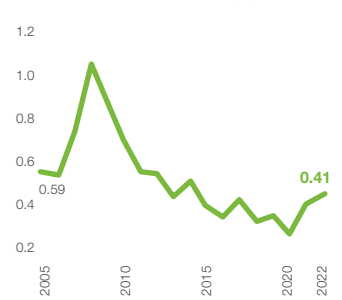
On the corporate front, in February 2020, the subsidiary, Terna Energy Solutions, strengthens its industrial side by acquiring **Brugg Kabel AG**, one of Europe's leading manufacturers of terrestrial cables, whilst, in October 2021, the company completes the acquisition of a 75% stake in **LT S.r.l.** (LT Group), creating the leading Italian operator in the operation & maintenance of photovoltaic plants. In October 2022, Terna signs a partnership agreement with Meridiam and Boundless Energy to develop joint initiatives in the United States in the field of power grids. **Terna Forward** is established in November 2022 with the aim of identifying the best technology opportunities and transferring them to other Group companies.

In 2022, Terna's Chief Executive Officer, Stefano Donnarumma, becomes **President of GO15**, the association that brings together the world's largest power grid operators.

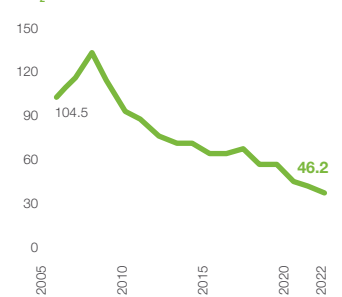
**PERCENTAGE OF ELECTRICITY MET FROM RENEWABLE SOURCES (%)**



**SF LEAKAGE AS A PERCENTAGE OF TOTAL GAS INSTALLED (%)**



**CARBON INTENSITY - TONNES OF CO<sub>2</sub> EQUIVALENT / REVENUE (€m)**



**FIND OUT ABOUT KEY EVENTS IN 2022**





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# 1

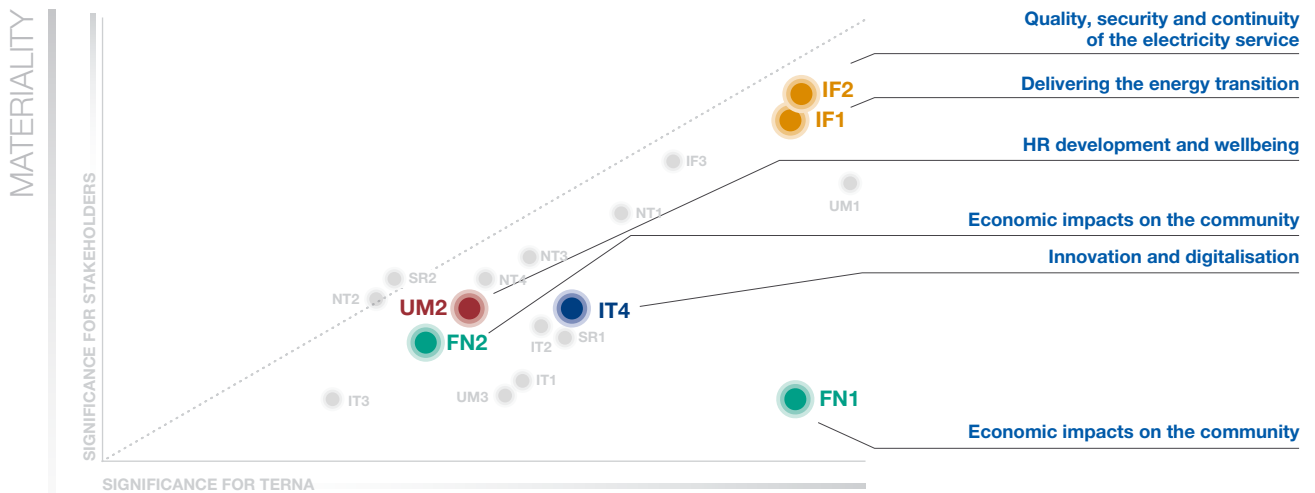
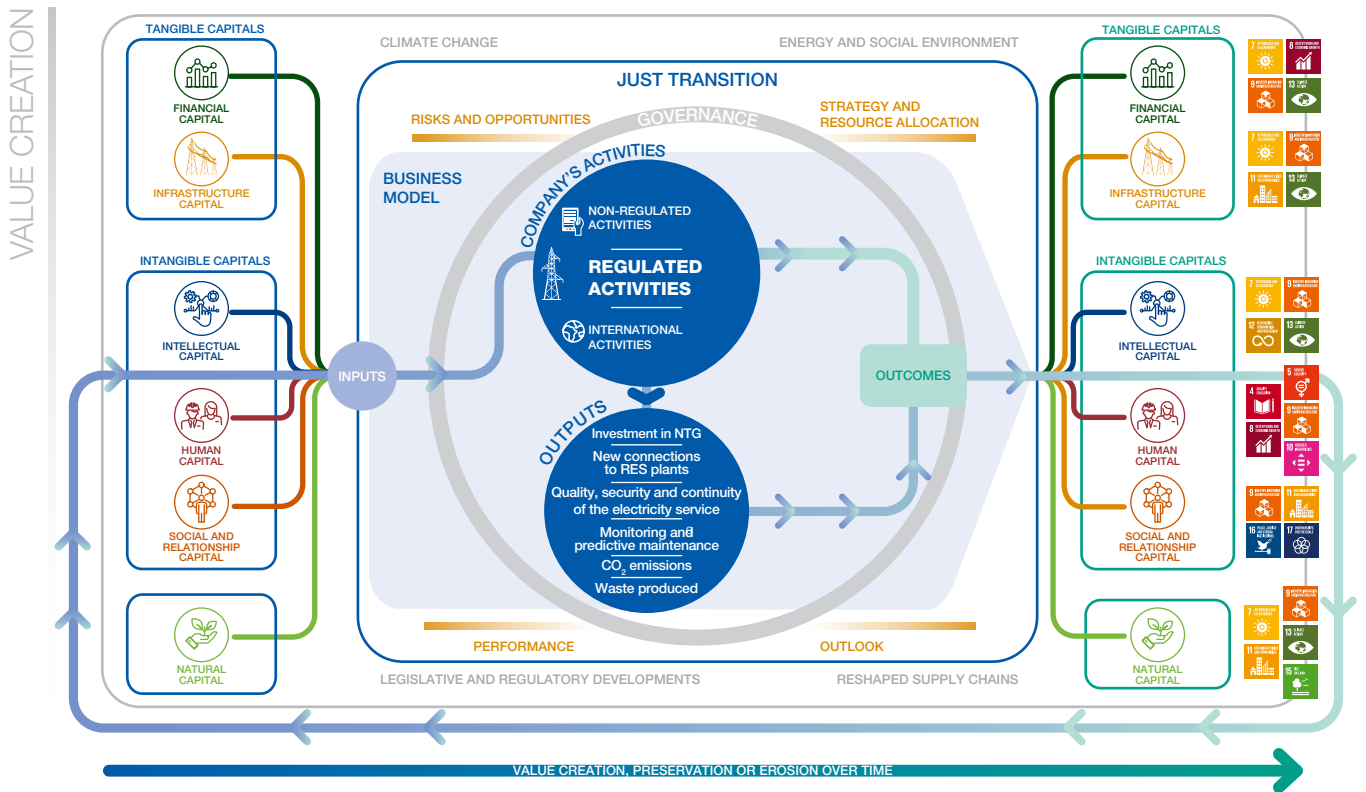
## The value creation strategy

# In this section

The ability to create value over time – the common thread running throughout this Report – presupposes the definition of a strategy able to integrate the complexities inherent in the external environment with the Group's objectives. This first section describes the scenarios having the greatest impact on value creation and the capitals, the scenarios developed by Terna and the most important strategic documents, starting with an initial summary of the respective performances. The section ends with the materiality analysis and its graphic representation (the "Matrix") and an explanation of the methodology on which it was based.







These infographics highlight the topics dealt with in this section with the aim of **facilitating information connectivity**: in this way, the section offers an overall view showing the links between all the factors that influence Terna's ability to create value over time and how they are dependent on each other. Material topics are indicated with a cross-reference in blue, showing the relevant code.

# Reference scenario

## Macroeconomic scenario

After a 2021 marked by robust global economic recovery, driven by the restart of many activities after the lockdowns imposed due to the Covid-19 pandemic and the introduction of large-scale fiscal and monetary support packages, 2022 recorded a slowdown in economic growth in all the major advanced economies.

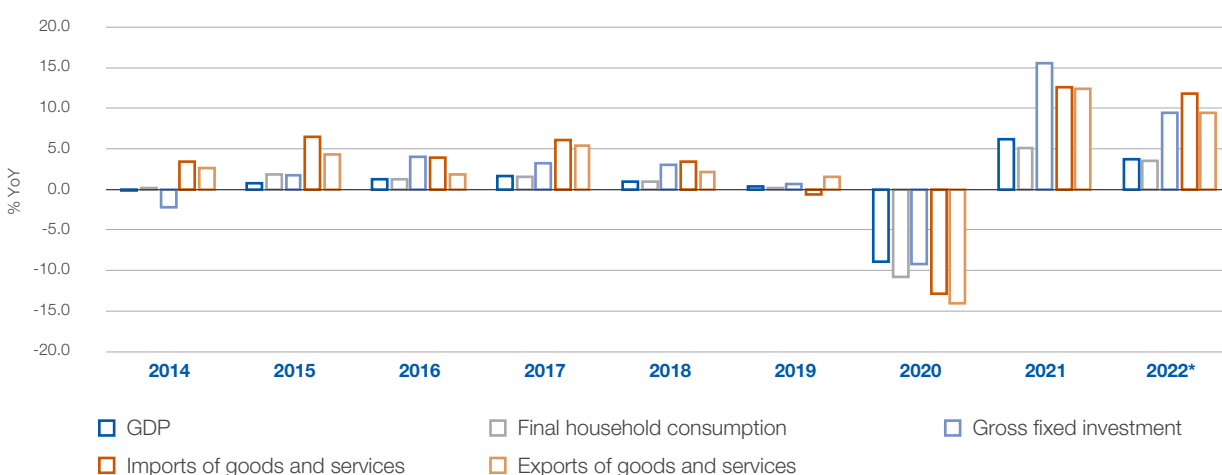
The macroeconomic environment in 2022 was heavily impacted by serious disruption to global energy and technology supply chains following Russia's invasion of Ukraine. The economic impact of the conflict, including barriers to efficient management of the value chain, cuts in energy supplies from Russia, increases gas and oil prices, high rates of inflation, heightened uncertainty, tougher credit conditions and rising interest rates, inevitably led to a slowdown in economic growth and a general deterioration in the short- and medium-term outlook for the global economy.

The International Monetary Fund has reported a sharp slowdown in global economic growth, with GDP growth of 6.2% in 2021 declining to 3.4% in 2022<sup>6</sup>.

US GDP fell from 5.9% in 2021 to 2% in 2022, whilst the Eurozone saw growth fall to 3.5%<sup>7</sup> from the 5.3% of 2021.

Europe was particularly exposed to the shocks resulting from Russia's invasion of Ukraine. The EU is amongst the most exposed advanced economies due to its geographical proximity to the war and its significant dependence on Russian gas (in 2021, Europe imported 155 billion cubic metres of gas from Russia, equal to 40% of its gas consumption). In addition, monetary conditions are tighter, with the European Central Bank calling an end to its quantitative easing

### Summary of macroeconomic indexes



\* Provisional data – ISTAT projections, December 2022.

<sup>6</sup> International Monetary Fund, World Economic Outlook, January 2023.

<sup>7</sup> International Monetary Fund, World Economic Outlook, January 2023.

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programme and progressively raising interest rates, in December 2022 increasing the deposit facility rate to 2%, the main refinancing operations rate to 2.5% and the rate on the marginal lending facility to 2.75%.

Italy has also had to deal with major economic fallout from the conflict, but despite this **GDP rose 3.7%**<sup>8</sup> in 2022, in contrast with the projections contained in the Update to the Economic and Financial Planning Document published in September. Italy's growth outpaced other European countries, with Germany recording growth of 1.9% and France 2.6%, thanks to particularly significant upturns in consumer spending (+3.5%) and gross fixed investment (+9.4%)<sup>9</sup>.

## Energy price pressures

The outbreak of war in Ukraine exacerbated the upward trend in commodity prices that began towards the end of 2021, resulting in unprecedented levels of inflation.

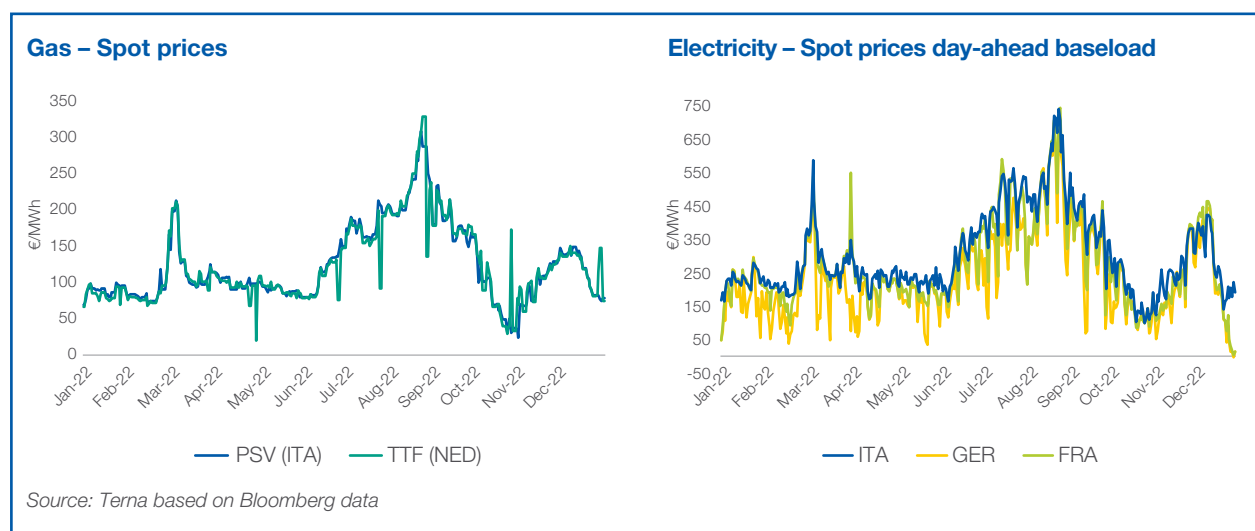
As regards Europe, in addition to the tensions with Russia, the continent saw a series of other specific events, including the limited availability of French nuclear plants and a lengthy period of drought which, together with high temperatures, had a negative impact on the availability of hydro and thermoelectric capacity.

Over the last year, these events pushed the TTF gas price<sup>10</sup> to records highs, exceeding the threshold of €330 per MWh at the end of August, compared with an average price in the last two years of around €20 per MWh. The price of CO<sub>2</sub> has also risen over the last two years, reaching a peak of more than €100 per tonne in August 2022.

The performance of fossil fuel prices, above all the price of gas, has a major impact on the electricity market due to the manner in which market prices are determined under the system marginal price mechanism. This system is used to determine the price based in part on electricity generated from renewable sources on the system marginal cost (normally determined by gas-powered plants).

As a result, the SNP also rose, reaching peaks of well over €500 per MWh in August 2022.

The increase in the SNP, which rose from an annual average of €52 per MWh in 2019 to €304 per MWh in 2022, impacted on the costs incurred by final electricity customers. In fact, since 2021, the price of domestic consumers served by the enhanced protection market has more than tripled, rising from approximately €200 per MWh in the first quarter of 2021 to around €660 per MWh in the fourth quarter of 2022.



<sup>8</sup> ISTAT, March 2023.

<sup>9</sup> ISTAT, March 2023.

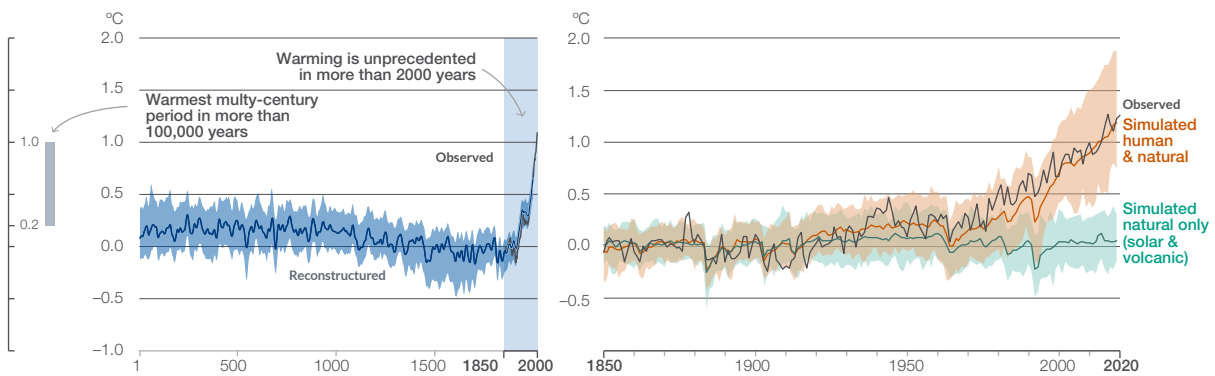
<sup>10</sup> "Title Transfer Facility", one of the largest wholesale natural gas markets in Europe.

## Energy scenario

### Climate change and its impact on the electricity sector

Climate change represents an urgent challenge that society and the planet must respond to. Warming linked to human activity has reached the level of approximately 1°C compared with pre-industrial levels. **Each of the last four decades has been warmer than the previous one**: the average surface temperature on earth **has risen by 1.1 °C compared with the period 1850-1900**.

IPCC - global temperature changes (°C)



This warming has led to an increase in the frequency and intensity of extreme weather events, in terms of both temperature extremes (hot and cold) and violent and unpredictable precipitation events. The over 18,000 major natural events recorded globally by the NatCatSERVICE -Munich Re since 1980 show that such events have tripled in 40 years. The effects of climate change also have a negative impact on the energy sector.

In 2022, Europe was hit by a serious drought that, combined with a series of increasingly intense summer heatwaves, reduced hydroelectric production to well below average, alongside the unavailability of several French nuclear plants.

The fight against climate change requires an ongoing commitment to decarbonisation. Despite this, in 2021, the **global rate of decarbonisation<sup>11</sup> was a mere 0.5%<sup>12</sup>**, the lowest level in more than a decade (in 2020 the rate was 2.5%) and well below the required annual global rate of decarbonisation of 15.2%. This target is eleven times higher than the global average of just 1.4% recorded in the last two decades and is far above anything achieved by any country until now.

<sup>11</sup> The reduction in carbon intensity or CO<sub>2</sub> emissions in the energy sector per dollar of GDP.

<sup>12</sup> PWC - Net Zero Economy Index 2022.

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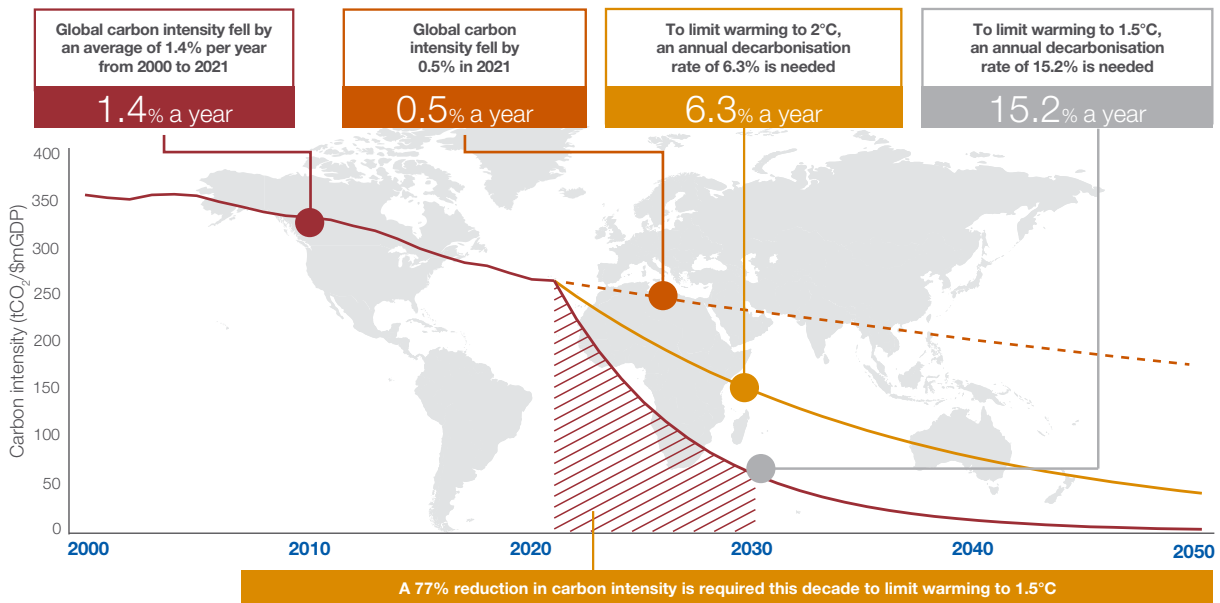
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Net zero economy index 2022



Source: Net Zero Economy Index 2022, PwC.

The figure for 2022 was heavily influenced by the impact of the war in Ukraine. This situation led to a **drop in demand for energy**. According to the quarterly survey carried out by Enea<sup>13</sup>, energy demand in the Eurozone in the third quarter of 2022 was down 0.7% compared with the same period of the previous year. Despite this, compared with the third quarter of 2021, CO<sub>2</sub> emissions rose (+4%) due to increased use of fossil fuels, above all coal (+11%), which at global level reached the all-time high last seen in 2013, according to the IEA. This trend is unfortunately a continuation of the upward shift witnessed in 2021, when the growth in energy demand was in part met by increased use of coal, with a resulting rise in emissions of 1.9 Gt. Italy, on the other hand, registered a 1% decline in energy consumption, due mainly to a sharp fall in natural gas consumption, which overall decreased by 1.4 Mtoe (-3%).

According to the IEA<sup>14</sup>, **the energy sector is largely responsible for the greater part of emissions** produced by human activity and its decarbonization is thus key to avoiding the potential effects of climate change. Under the net-zero pathway developed by the IEA, by 2030 the global economy will have grown by 40%, but must use 7% less energy than today. **Energy efficiency and the electrification of final consumption** (given that, as an energy carrier, electricity is intrinsically efficient) will be the key drivers of decarbonisation. The real enabler of this transformation is **electricity as an energy carrier**, given the high level of intrinsic efficiency of final uses based on this carrier (resulting from thermodynamic laws and thus independent of any effective technological development): an electric vehicle is from 3 to 5 times more efficient than any technology based on the use of liquid or gaseous fuels, whilst a heat pump is 5-6 times more efficient than any fuel-based alternative.

<sup>13</sup> ENEA, Quarterly analysis of the Italian energy system II and III quarters 2022.

<sup>14</sup> IEA: International Energy Agency. "Net Zero by 2050" report.

## The European and Italian response



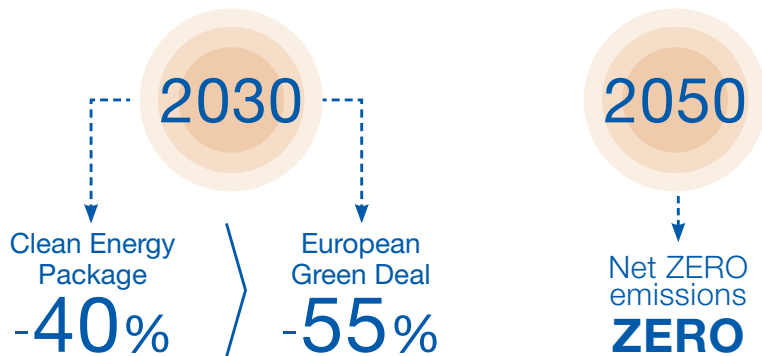
Europe's approach to shaping the future of its energy sector is set out in the guidelines and regulations in the European Union's **Clean Energy Package**, adopted at the end of 2018 in response to the commitments made in the Paris Agreement. The bar was further raised in terms of targets for cutting emissions, renewable energy and energy efficiency, with the publication, at the end of 2019, of the **Green Deal**, presented by the European Commission in December 2019. This aims to transform the European Union into a **net-zero economy by 2050** and achieve an intermediate goal of cutting greenhouse gas emissions (GHG) **by at least 55% by 2030** compared with 1990 levels. A key part of the Green Deal is the European Climate Law (Regulation (EU) 2021/1119), formally adopted by the Council of the European Union on 28 June 2021 and that came into effect on 29 July 2021.

In July 2021, the European Commission also presented a package of proposals aimed at achieving the targets set for 2030 and 2050. The package, called **Fit for 55**, has strengthened the guidelines with 8 revisions of existing legislation and 5 new proposals. On 15 December 2021, the Commission also presented the second part of the package of proposals.

In addition, following Russia's invasion of Ukraine, on 18 May 2022, the European Commission launched **Repower-EU**, an emergency plan that aims to **strengthen the European Union's strategic independence by diversifying energy sources** and boosting the Union's energy independence and security. The key targets set in REPower-EU include increasing the resilience, security and sustainability of Europe's energy system through an appropriate reduction in the continent's dependence on fossil fuels and by diversifying energy sources, increasing the use of renewable energy, energy efficiency and energy storage capacity.

In effect, the Plan assumes full implementation of the energy transition legislation in the Fit-for-55 package and raises the targets for renewable energy (45% instead of 40%) and energy saving (13% instead of 9%).

### European drivers: CO<sub>2</sub> EMISSIONS TARGETS



At national level, the Italian Government published the **National Integrated Energy and Climate Plan ("PNIEC")** at the end of 2019. The document, drawn up by three ministries (Economic Development, Environment and Land and Sea Protection, Infrastructure and Transport), provides key policy guidelines for development of the country's energy system. The plan is currently being updated to reflect the more ambitious goals set at European level.

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## Enabling factors for the energy transition


Delivery of the infrastructure necessary to achieve the energy policy goals within the set timetable inevitably requires a significant acceleration of investment in the energy sector and, even more so, in the electricity sector. This investment must, to a large extent, be directed towards supporting the development of new renewable energy capacity, storage systems and transmission and distribution networks, to be carried out in a coordinated manner to make the system more efficient as a whole.

The ecological transition is needed not only to combat climate change and boost environmental sustainability, but also to reduce the country's dependence on energy from overseas, limit energy price pressures due to commodity costs (gas and CO<sub>2</sub>), and to drive the country's economic growth and technological research and innovation.

### What is needed

<p><b>GRID DEVELOPMENT</b></p> 	<p><b>Strengthen the grid and cross-border interconnections</b></p> <p>Investment to offset the loss of inertia and in voltage regulation and grid resilience</p>	<p>Terna develops infrastructure to enable the integration of RES</p> <p>Terna engages with government institutions with the aim of speeding up consents processes that today represent the main obstacle to achieving decarbonisation targets</p>	Under Terna's direct responsibility
<p><b>MARKET DESIGN</b></p> 	<p>Identify a correct market design mix to achieve an <b>optimal combination of forward markets</b> (RES auctions, storage auctions, the Capacity Market) and spot markets, for both energy and services markets</p> <p>Broaden the <b>participation of new resources</b> (RES, EVs, DSR) <b>in the provision of flexibility services</b></p>	<p>Terna is opening up the dispatching services market (DSM) to resources that are currently not enabled</p>	

<p><b>DEVELOPMENT OF RES</b></p> 	<p><b>Increase the pace of deployment</b></p> <p>Ensure adequate <b>security of supply</b>, leveraging the range of technologies available</p> <p>Give <b>priority at administrative level</b> to the deployment of RES and run more effective campaigns to raise awareness and improve public acceptance</p>	<p>Terna guides the correct choice of technology mix and location for plants, diversifying sources of supply</p>
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<p><b>STORAGE SYSTEMS</b></p> 	<p>Deploy new hydroelectric and electrochemical storage systems to <b>manage overgeneration and residual load ramping events</b>, and provide high-quality services to the system</p>	<p>Terna identifies the need for new storage capacity, taking into account expected growth in RES plants</p>
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Source: Terna data.

This represents an extremely challenging, long-term commitment, which will require a **coordinated approach to timing and geographical location to channel the massive investment being undertaken by operators in a way that is in keeping with the related plans**. This transformation is a major opportunity to boost Italy's competitiveness: the country's lack of energy resources has historically meant that energy costs were higher than the European average and that the country was highly dependent on imported energy. This situation has been highlighted by recent tensions regarding the import of gas from Russia. In this new scenario, Italy will see a reduction in its energy dependence.

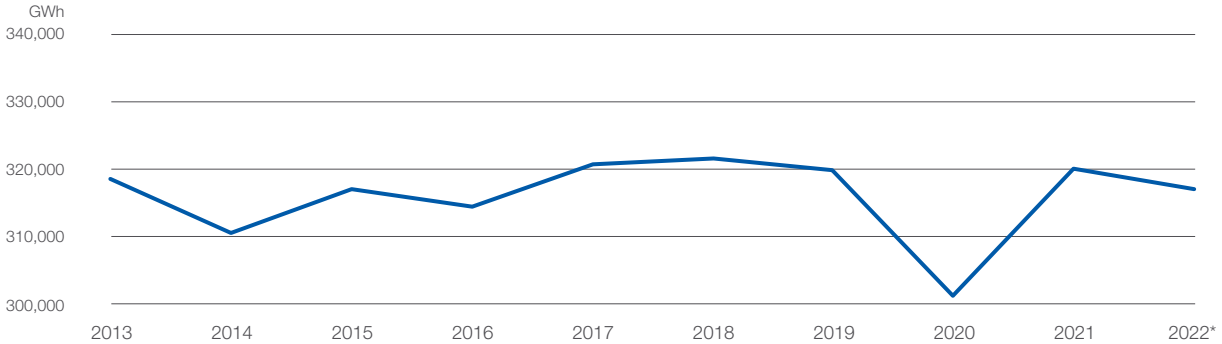
The investment planned for the coming years will determine Italy's strategic position in the global economic system of the future. **Terna is thus driving the transformation of the energy system as part of the country's ecological transition**. This commitment also takes the shape of efforts to promote ever **closer strategic cooperation with other players in the sector**, including through the membership of various European bodies (e.g., ENTSO-E) and partnerships with other European TSOs (e.g., the Equigy initiative, whose partners, in addition to Terna, include the TSOs TenneT, TransnetBW, Swissgrid and APG).



## Electricity demand and production in Italy in 2022

Terna monitors domestic demand trends and takes appropriate actions, in full implementation of EU directives.

### Demand trend over the last 10 years



\* Provisional data.

### Demand for electricity in Italy

Demand for electricity in Italy amounted to 316,827 GWh in 2022 (provisional data), marking a **reduction of 1.0% compared with 2021**, which recorded an increase of 6.2% compared with the previous year.

ELECTRICITY BALANCE IN ITALY (GWh)*	2022**	2021	CHANGE	% CHANGE
Net production	276,373	280,045	(3,672)	(1.3%)
From overseas suppliers (imports)	47,391	46,572	819	1.8%
Sold to overseas customers (exports)	(4,404)	(3,782)	(622)	16.4%
For use in pumping***	(2,533)	(2,916)	383	(13.1%)
<b>Total demand in Italy</b>	<b>316,827</b>	<b>319,919</b>	<b>(3,092)</b>	<b>(1.0%)</b>

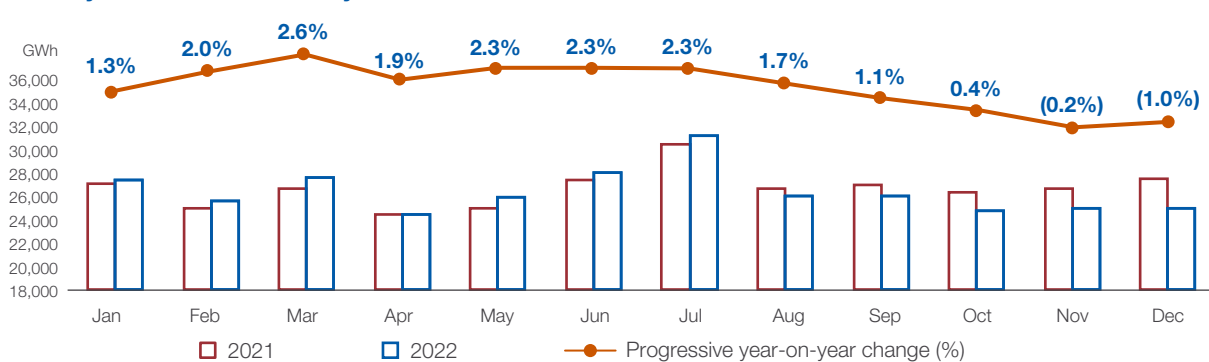
\* Does not include demand for energy for ancillary services related to electricity production.

\*\* Provisional data.

\*\*\* Electricity used for pumping water for subsequent use in the production of electricity or as a way of immediately balancing overproduction.

Monthly demand for electricity in Italy rose in the first part of 2022 compared with the same period of the previous year, before falling back from August onwards. This resulted in a slight decline in annual demand.

### Monthly demand for electricity\*



\* Provisional data.



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## Meeting demand and energy production

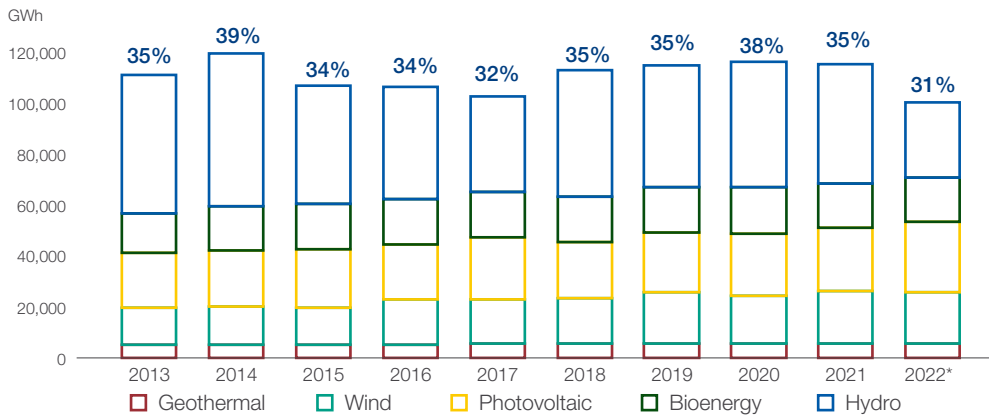
In 2022 (provisional data) approximately **31% of total energy demand was met from renewable energy sources**. The value of production from renewable sources fell 13.10% compared with the previous year.

In terms of the performance of the various renewable sources, there was an increase in photovoltaic production (up 11.8%), whilst hydro production saw a significant fall (down 37.7%).

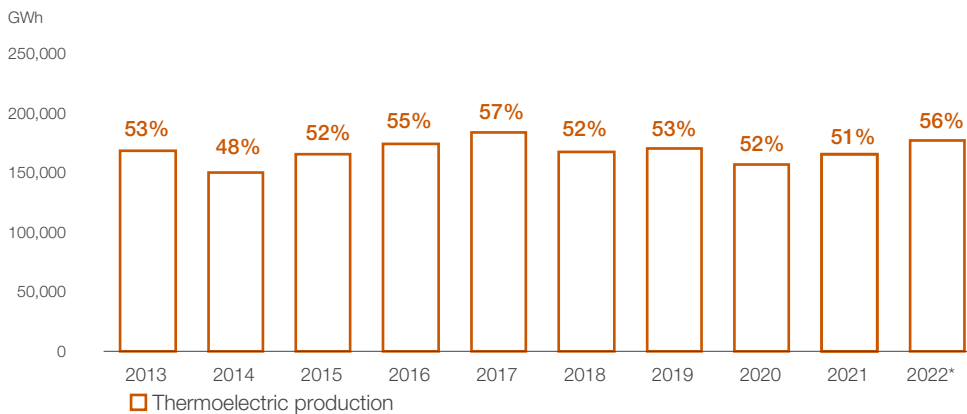
In this context, with the European drive towards decarbonisation and the strong penetration of renewables, high-voltage grids continue to play a key role in enabling the growth in renewable generation capacity. Development of the power grid is thus crucial in responding to the increased amount of electricity fed into the system from renewable sources, above all those of an intermittent nature, such as wind and photovoltaic. Despite this, even on days when the situation was at its most critical, the robustness of grid infrastructure and Terna's actions in managing the system helped to ensure that the national grid remained fully operational.

### Performance of production sources as a proportion of demand<sup>15</sup>

#### Renewable sources



#### Traditional sources



\*Provisional data.

The two charts on the left compare the performance of renewable production in Italy in recent years with the performance of thermoelectric production over the same period.

As can be seen from the charts, Italy met the target set in European Community directives, which required that renewable sources account for over 27% of demand by 2020, from as early as 2012 and has continued to do so.

<sup>15</sup> The percentages shown in the two charts compared refer to the share of demand met from renewable sources and thermoelectric sources (a traditional source).



**Number of hours in which the volume of demand met from renewable sources exceeded the relevant thresholds**

	>30%	>40%	>50%
2020*	6,467	3,621	1,509
2021	6,011	2,661	832
<b>2022**</b>	<b>4,233</b>	<b>1,602</b>	<b>486</b>

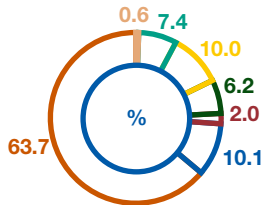
\* Leap year.

\*\* Provisional data.

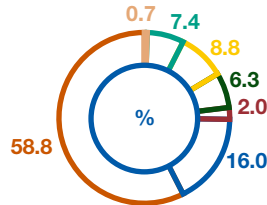
Compared with the previous two years, 2022 saw a reversal of the upward trend in the number of hours during which the volume of demand met from renewable energy sources exceeded the thresholds of 30%, 40% and 50%. This primarily reflects a reduction in the share of demand met from renewable sources due above all to water shortages in 2022.

**Net electricity production by source**

**2022\***  
276.3 TWh



**2021**  
280.0 TWh



- Net wind production
- Net photovoltaic production
- Net biomass production
- Net geothermal production
- Net renewable hydro production
- Net thermoelectric production
- Net non-renewable hydro production

\* Provisional data.



## Regulatory framework

Terna operates as a natural monopoly and within a market regulated by the **Regulatory Authority for Energy, Networks and the Environment (ARERA)**, or the *Autorità di Regolazione per Energia reti e Ambiente*, which determines the level of regulated revenue for transmission and dispatching activities, currently representing approximately 85.8% of the Group's total revenue.

In Resolutions 653/2015/R/eel, 654/2015/R/eel and 658/2015/R/eel, ARERA set the tariff regime for electricity transmission, distribution, metering and dispatching services and regulations regarding the quality of the transmission service for the fifth regulatory period (sub-period "NPR1", 2016-2019). The regulatory framework for the second four-year period (sub-period "NPR2", 2020-2023) was revised by Resolutions 567/2019/R/eel, 568/2019/R/eel and 574/2019/R/eel.

The framework for the period 2020-2023 (NPR2) is broadly in line with the criteria applied in the previous four-year period from 2016 to 2019 (NPR1), with the principles for recognising the cost of capital (rate of return) and operating costs (price cap and profit sharing) unchanged with respect to the previous regime. The most important change regards readmission of the return on fixed assets in progress, under a mechanism that reflects the related expenditure in tariffs based on rates of return differentiated on the basis of how long ago the expenditure was incurred and for a maximum of four years (beyond four years, the tariff will take into account interest expense incurred whilst work was in progress). At the end of NPR2, ARERA has provided for adoption of a Totex/Output-based approach. This recognises costs based on total expenditure incurred (operating and capital expenditure) and focuses more on outputs and the levels of service provided.

In Resolution 614/2021/R/com, ARERA set out the procedure for determining and revising the **Weighted Average Cost of Capital (WACC)** for the various regulated infrastructure services in the electricity and gas sectors in the 2022-2027 period, setting a WACC of 5.0% for the transmission service in 2022. In this Resolution, ARERA confirmed the adoption of a mechanism for revising key macroeconomic parameters at the end of the first three years (2022-2024) and also envisaged the possibility, in the same three-year period, of a further annual revision if the change observed in the key market parameters used in the calculation formula were to result in a change in WACC of at least 50 bps. In Resolution 654/2022/R/com, ARERA confirmed the current levels of WACC for electricity and gas infrastructure services for 2023, having taken into account the fact that the above mechanism had not been triggered.

A number of key aspects of regulation in the fifth regulatory period are described below, with regard to allowed revenue for transmission and dispatching services.

**Transmission revenue** makes up the most significant portion of regulated revenue and is generated from application of the related transmission charge (**TC**), billed by Terna to distributors connected to the National Transmission Grid. This charge pays for the transmission services provided by all transmission service operators, including the owners of residual portions of the grid (external to the Terna Group), and is divided into two components: a power component (equal to 90% of revenue, expressed in euro cents/kW/year) and an energy component (10% of revenue, expressed in euro cents/kWh).

**Transmission revenue makes up the most significant portion of regulated revenue**

The **dispatching service charge (DSC)** aims to recompense Terna for carrying out the activities relating to the dispatching service and is billed by Terna to users of the dispatching service in proportion to the quantity of energy dispatched.

Allowed costs that combine to determine the TC and DSC components are attributable to three main categories, as summarised below.

## The main types of allowed cost

- 1. Return on capital (RAB)** Determined on the basis of the Regulated Asset Base (RAB) and the Weighted Average Cost of Capital (WACC). The RAB represents net invested capital for regulatory purposes. It is revalued annually on the basis of data from ISTAT (Italy's Office of National Statistics) on the change in the deflator applied to gross fixed investment and revised on the basis of the performance of investment and disposals. The WACC represents the weighted average cost of equity and debt. The methods of determining and revising the WACC are established by the Regulator.
- 2. Depreciation** Allowed depreciation (calculated on the basis of an asset's useful life for regulatory purposes) is revalued annually based on the change in the deflator applied to gross fixed investment.
- 3. Operating costs** Allowed costs are determined by the regulator at the beginning of the regulatory sub-period, based on operating costs recognised during the relevant year, increased by any remaining portions of additional efficiencies achieved in previous regulatory periods (a 50% share).  
The resulting amount is revalued annually to take account of inflation (Italy's rate of consumer inflation for blue- and white-collar households, excluding tobacco products) and reduced by an efficiency factor designed to ensure that additional efficiencies are, over time, passed back to end users in full.
- 4. Output-based incentive** In addition to the above items, a portion of the remuneration of transmission and dispatching services derives from regulatory incentives linked to the achievement of specific objectives, as described below:

  - delivery, in the 2019-2021 period, of grid development projects designed to resolve congestion within market areas, grid constraints due to voltage regulation and conditions for essential service provision, using a reward mechanism based on an incentive resulting from the sum of 50% of the estimated annual benefits using ACB 2.0 and 50% of the reduction in DSM costs, the cost of essential plants and the costs relating to the shortfall in wind production, with an overall cap of €150 million (Resolution 699/2018/R/eel). In Resolution 26/2023/R/eel, the regulator awarded Terna the maximum bonus (€150 million), to be paid in quarterly instalments of the same amount, over three years from 2023, and included in the uplift payment defined in article 44 of Annex A to Resolution 111/06;
  - an incentive system for the delivery, in the five-year period 2019-2023, of projects designed to increase transmission capacity between market areas: this involves recognition of an incentive, capped at €150 million, in proportion to the ratio between capacity delivered by 2023 and the target capacity (Resolution 567/2019/R/eel), plus an additional bonus in the event of the deployment of transport capacity using efficient solutions, including those that are capital light. The mechanism also envisages that the award may be reduced by the regulator if the ratio between the average transmission capacity made available for the day-ahead market and winter peak transmission capacity is significantly below historical levels of this ratio, in one or more of the three years following the entry into service of the investment that made available the additional transmission capacity. In Resolution 23/2022/R/eel, the regulator awarded Terna a bonus of €143.6 million for work carried out in 2020, which resulted in an increase in transmission limits on the relevant sections of the grid with effect from January 2021. The bonus was payable by the Fund for Energy and Environmental Services (Cassa per i Servizi Energetici e Ambientali - CSEA) from the "Quality of electricity services" account (including €40 million relating to the above additional bonus for capital light projects, to be paid by the end of February 2022, €52.793 million in December 2022 and €52.793 million by December 2023);

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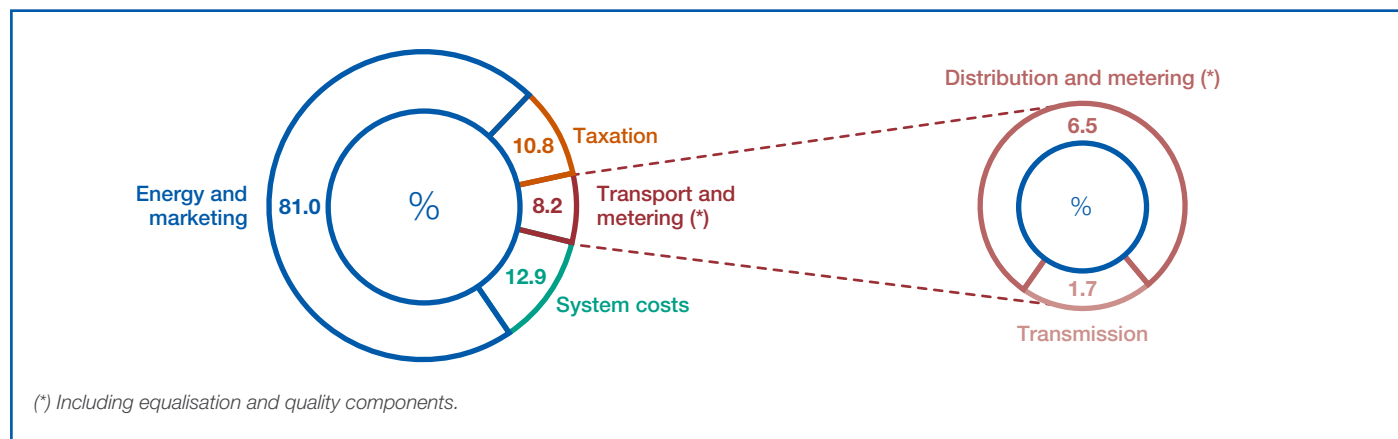
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- an incentive mechanism, with a three-year duration (2022-2024), aimed at rewarding the efficiency of dispatching activities and, as a result, reducing DSM costs and the cost relating to the shortfall in wind production and essential plants (Resolution 597/2021/R/eel and Resolution 132/2022/R/eel). The incentive is calculated annually based on Terna's performance, assessed by comparing effective dispatching costs in the incentive year with costs in the year in question, suitably adjusted to take into account commodity price movements and other corrective factors (the bonus awarded to Terna is equal to 12% of the total saving obtained over a three-year period). Rewards (penalties), calculated on an annual basis, are included in the uplift payment defined in article 44 of Annex A to Resolution 111/06 and paid from 2024 according to the procedure described in Resolution 132/2022;
- improvements in quality of service in the 2016-2023 period through an incentive mechanism based on rewards/penalties calculated on the basis of the difference between the effective annual level of energy not supplied through the NTG (the NTG RENS indicator) and the target level set by ARERA, with the annual reward capped at €30 million and the annual penalty at €12 million (Resolution 653/2015/R/eel). In Resolution 623/2022/R/eel, the regulator awarded Terna a bonus of €18.64 million, payable by the CSEA by January 2023 from the "Quality of electricity services" account.

## Cost of transmission in end users' bills

Based on figures from ARERA, it is possible to estimate that **approximately 1.7%** of a typical domestic user's electricity bill relates to the cost of transmission in 2022.

Compared with an average total annual cost for a typical domestic user, estimated at approximately €1,316 in 2022, the cost incurred for the transmission service amounts to approximately €21 per household.



# Terna's scenarios

Energy scenarios examine the potential ways in which the current energy system may develop, providing an essential basis for identifying and planning the infrastructure investment and development needed to enable the ecological transition. Every two years, Terna and Snam, the operator of Italy's gas network, draw up a **Scenario Description Document**<sup>16</sup> (**SDD**) as part of the process of preparing grid development plans for both sectors.

The SDD published at the beginning of August 2022 forms the basis for definition of Terna's 2023 Development Plan and goes above and beyond the goals set in the PNIEC, reflecting the more ambitious targets contained in the EU's "Fit-for-55" package. The process allowed the two operators to pool their specific skills, in the full awareness that the interaction between scenarios in the electricity and gas sectors constitutes a markedly complex element at Italian and EU level.

For the time horizon of 2030, the document describes two scenarios:

- a policy scenario in line with the Fit-for-55 (FF55) goals;
- a Late Transition scenario broadly in line with the "old" National Integrated Energy and Climate Plan ("PNIEC") of December 2019.

Three different scenarios were developed for the time horizon of 2040:

- a Late Transition scenario in keeping with the 2030 scenario;
- a Global Ambition Italy scenario (GA-IT);
- a Distributed Energy Italy scenario (DE-IT).

The latter (GA-IT and DE-IT) are to be considered development scenarios both aligned with the storylines in the scenarios drawn up by the ENTSOs, Global Ambition and Distributed Energy, which set out alternative paths consistent with the goal of achieving a net zero system by 2050. The new DDS scenarios are, therefore, aligned with international scenarios based on a target of net zero by that date (e.g., the "IEA NZE 2050" scenario developed by the International Energy Agency, or the "Advanced Energy Revolution scenario" published by Greenpeace).

<sup>16</sup> This document is available at the following link: [https://download.terna.it/terna/Documento\\_Descrizione\\_Scenari\\_2022\\_8da74044f6ee28d.pdf](https://download.terna.it/terna/Documento_Descrizione_Scenari_2022_8da74044f6ee28d.pdf)

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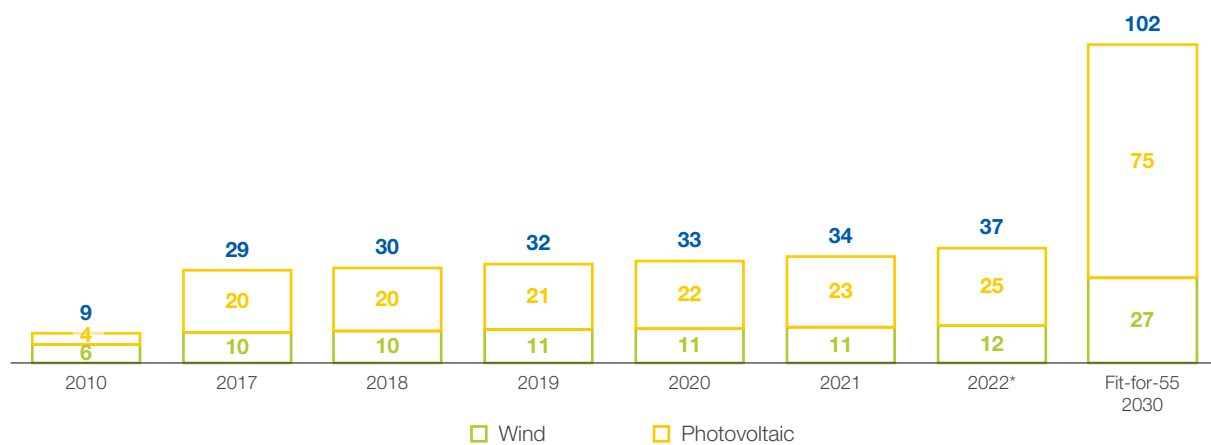
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The Fit-For-55 scenario with a time horizon of 2030 plays a key role, not only because it extends the policy objectives to 2030, but above all because it calls for an efficient mix of investments in network infrastructure, renewable sources, storage and new digital technologies compatible with the main technical, economic and administrative limits that could otherwise compromise its feasibility in such a tight time frame. The scenario indicates the need:

- to add **70 GW of new wind and solar capacity** by 2030 compared with 2019, corresponding to an increase of 120-126 TWh and ahead of the 40 GW increase provided for in the PNIEC;
- to achieve at least a **65% penetration rate for RES** as a share of electricity demand by 2030, compared with the 55% previously targeted in the PNIEC;
- to create **almost 100 GWh of additional storage**, as well as to develop adequate transport capacity, to guarantee full integration of the electricity produced from renewable sources into Italy's electricity system.

**Development of wind and photovoltaic installed capacity 2010-2022 and targets to 2030 (GW)**



\* Provisional data.

Source: Terna data

The energy transition must be based around an appropriate market design, able to provide the long-term price signals needed for development of an adequate, secure and low carbon electricity system, and to enable and facilitate the full participation of all distributed resources in the ancillary services markets.

# 2023 Development Plan

The 2023 Development Plan was submitted to the Ministry of the Environment and Energy Security on 27 January 2023, following its approval by Terna's Board of Directors on 25 January, in line with the requirements of Legislative Decree 93/11, as amended by Law 120/2020<sup>17</sup>.

This new Plan, which follows on from the previous version of 2021, has been drawn up at a particular time in history when issues surrounding energy provision are even more the focus of attention. In a period of rapid geopolitical upheaval, the energy system is faced with a series of unprecedented and highly ambitious challenges.

Against this backdrop, Terna must **design a grid capable of handling progressive decarbonisation and the growing integration of renewables**, whilst at the same time the efficiency and security of supply.

The Plan must guarantee the sustainable development of the National Transmission Grid (NTG), by enabling the implementation of RES, and supporting the energy transition and the phase-out of coal. It contains the investments that Terna is committed to carrying out in order to guarantee the efficiency of the grid, the security of supply and of the service and the integration of production from renewable sources, **in line with the goals set in the Fit-for-55 package** and included in the 2022 Scenario Description Document (a 55% cut in CO<sub>2</sub> emissions by 2030 compared with 1990 levels and a share of final consumption met from renewable energy sources of at least 65%).

To achieve these challenging objectives, **in addition to the projects previously included in the 2021 Development Plan, the 2023 Development Plan envisages the launch of innovative initiatives** as part of the **Hypergrid** project, amounting to **approximately €11 billion**, to meet future targets. This marks an increase and acceleration in investment for the benefit of the country, with total **capital expenditure over the life of the Plan from 2023 to 2032** up at an all-time high of **over €21 billion**.

Hypergrid projects, marking the principal addition to the Plan, are innovative projects that will exploit HVDC technologies to achieve energy transition and security objectives: in brief, Terna aims to carry out a major programme of modernisation of existing power lines forming the country's eastern and western backbones, extending them to include the southern regions and the islands, accompanied by new 500kV submarine connections. This will boost the lines' performance, reducing their environmental impact to a minimum and transferring a growing amount of renewable energy generated in southern Italy to areas where demand is highest in the north.

<sup>17</sup> Art. 36.c.12 of Legislative Decree 93/11, as amended by Law 120/2020, requires Terna to prepare a ten-year Development Plan for the national transmission grid every two years, submitting it for approval by the Ministry of the Environment and Energy Security, after consulting with the affected regional authorities and taking into account the views expressed by the regulator (ARERA).



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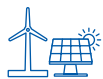
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## Development goals and strategy

Given the challenges faced by the electricity system as a result of the trends identified in the projected energy scenarios and ongoing climate change, planning the development of the transmission grid must meet the following **electricity system objectives**:



### INTEGRATION OF RES

**new development works to enable and prepare for the integration** of new renewable capacity, starting from the Hypergrid project.



### INCREASE IN TRANSPORT CAPACITY

**doubling of current exchange capacity between market areas** (over 30 GW), reduction and resolution of future congestions affecting the national transmission grid.



### DEVELOP CROSS-BORDER INTERCONNECTORS

in line with earlier plans, the aim is to continue **guarantee greater security** through the availability of mutual assistance between the interconnected systems.



### IMPROVE LEVELS OF ELECTRICITY SYSTEM SECURITY, QUALITY AND RESILIENCE AND SERVICE CONTINUITY

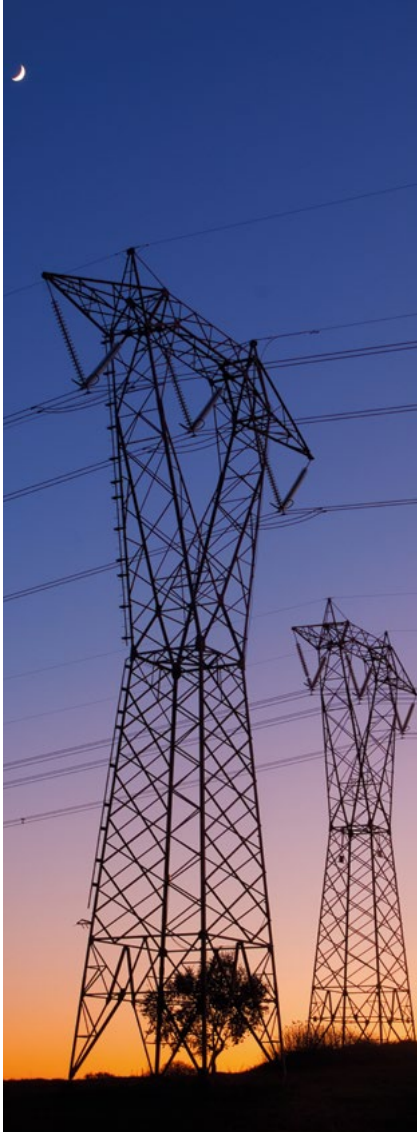
**work on upgrading the grid**, including the deployment of new power supply lines



### ENSURE THAT THE GRID IS ROBUST AND CUSHION LOW-FREQUENCY INTERSYSTEM OSCILLATIONS

Work on making the **electricity system increasingly stable and able** to withstand or control the formation of voltage wave following a fault or disturbance

The **key benefits expected** as a result of achieving these objectives are as follows::



### INVESTMENT

over €21bn	Investment over life of 2023 – 2032 Plan
~€30bn	Total investment 2023 – Beyond 2032
~€11bn	Hypergrid share 2023 – beyond 2032

### ENERGY TRANSITION

+70 GW	New RES capacity by 2030
-4,100 kt/year	Reduction in CO <sub>2</sub> by 2030* (equal to CO <sub>2</sub> consumption of 4.5m motor vehicles)**

### NEW GRID DEVELOPMENTS - HYPERGRID

+16 GW	New exchange capacity between market areas
~2,600 km	~1,000 km overhead } Length of backbones ~1,600 km in cable }
~13 GW	New AC/DC converter stations

\* Reduction in CO<sub>2</sub> by 2040: -12,000 kt per year.

\*\* Based on average consumption of 90 g/km for a utility vehicle covering 10,000 km per year.

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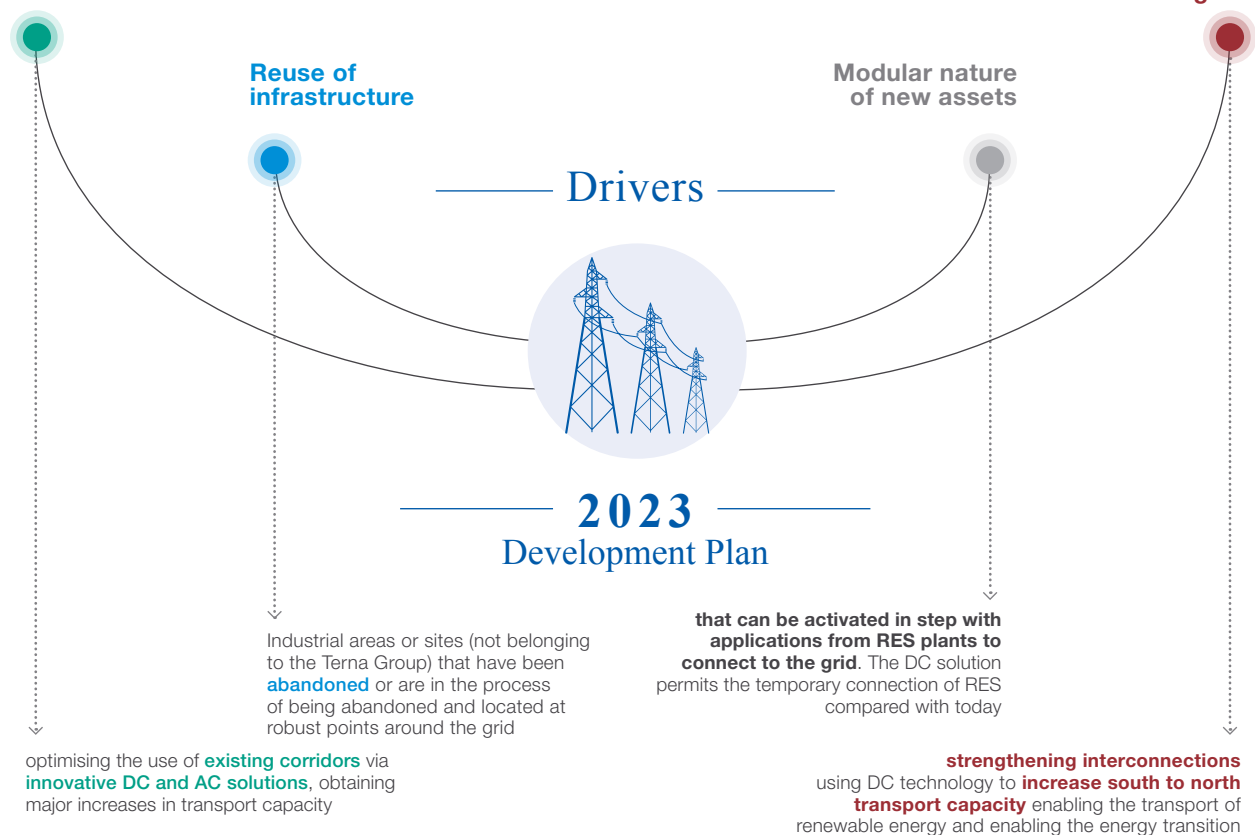
## New drivers for the planning of works

The 2023 Development Plan is based on an **integrated approach to planning that considers the electricity system as a whole**: the proposed works are modular and in synergy with each other, and provide diversified solutions capable of keeping pace with developments in the energy scenario. The aim is to build a grid that minimises price differentials between market areas to achieve the maximum degree of unification possible.

The development and construction of grid infrastructure capable of **increasing exchange capacity** between the different market areas results in the definition of **new drivers** with a pivotal role in the planning of new works:

### Synergies with existing and underused assets

### Increasingly secure and robust grid



FN1

# The 2021-2025 Industrial Plan

## DRIVING ENERGY



The **updated 2021-2025 Industrial Plan, "Driving Energy"**, was approved by the Board of Directors on 24 March 2022. The Plan provides for **total capital expenditure of €10 billion**, through which Terna will accelerate its commitment to the country's ecological transition, energy independence and decarbonisation, in keeping with the challenging objectives set in the National Integrated Energy and Climate Plan (PNIEC) and the targets in the EU's Green Deal, which aim to cut greenhouse gas emissions by at least 55% by 2030, compared with 1990 levels.

The key driver in the 2021-2025 Industrial Plan is **sustainable investment**, a concept embedded in the Company's value creation process and in the benefits for the system and the environment. Terna's capital expenditure, **99%** of which is classified as sustainable based on the **EU Taxonomy**, targets the development of renewable sources. The transmission backbones that transport energy from points of production, which are increasingly located in Italy's southern regions, to where demand is highest in the north of the country, will be boosted by resolving existing issues caused by grid congestion and further development of cross-border interconnections. Thanks to its strategic geographical location, Italy will be able to reinforce its **role as a European and Mediterranean electricity transmission hub**, becoming a leading player at international level.

The Terna Group's development initiatives will focus on three strategic areas: **Regulated Activities in Italy, Non-regulated Activities and International Activities**.

In terms of **Regulated Activities in Italy**, which continue to represent the Group's core business, Terna plans to invest **€9.5 billion** in developing, modernising and strengthening the national transmission grid, confirming the Company's role in driving the energy transition and enabling an increasingly complex, sustainable and innovative electricity system. This investment, focused on increasing the country's energy security, will generate major benefits for the system as a whole, with a significant multiplier effect. **Terna's capital expenditure has a positive impact on the country's GDP**, given that every euro spent adds three euros to GDP.

The planned investment will increase the **value of the RAB to €22.7 billion in 2025**, with a CAGR of 7% over the life of the Plan. By the end of 2022, the value of the RAB will be €18.1 billion, compared with €16.9 billion at the end of 2021.

The updated 2021-2025 Industrial Plan targets increased **investment in development of the national transmission grid**, which is due to total **€5.6 billion**. This is primarily linked to the construction of high-voltage direct current lines with the aim of resolving grid congestion, boosting transmission capacity between the various market areas, fully integrating renewable sources and improving quality of service. This type of investment will also involve the construction of undersea cable connections. The most important project is the Tyrrhenian Link, the power line that will connect Sardinia, Sicily and Campania and that will contribute to the development of renewable energy production and the phase-out of the most polluting coal- and oil-fired power stations. The other projects include Sa.Co.I.3, the interconnector linking Sardinia with Corsica and Tuscany, and the Colunga-Calenzano power line between Emilia-Romagna and Tuscany.

Investment in **renewing and improving the efficiency of assets**, covering the reorganisation of existing infrastructure, with the replacement – where technically feasible – of overhead lines with underground cable, will amount to **€2.6 billion**.

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Finally, Terna plans to invest a total of **€1.3 billion** in the **Security Plan**, over the life of the Industrial Plan, with the aim of boosting the system's technical and technological capabilities to increase system functionality.

**Non-regulated Activities** will help to generate new business opportunities thanks to the development of innovative, digital solutions in keeping with Terna's public service role in supporting the energy transition. These activities will include:

- *industrial activities* in the field of transformers, thanks to the consolidation of Tamini, and in underground cables, leveraging the distinctive expertise in terrestrial cables acquired with Brugg Cables, to respond to the system's growing needs in both sectors and strengthen the supply chain;
- *connectivity offerings*, including within the context of partnerships, involving the provision of housing and hosting services to enable telecommunications providers to use the Company's fibre network, and the installation of telecommunications equipment at Terna's existing sites;
- *energy solutions and energy efficiency services for industrial customers and O&M activities* for photovoltaic plants, taking into account the skills acquired with the LT Group and including through the use of innovative data collection and analysis technologies.

Terna expects **Non-regulated Activities** to contribute a cumulative total of **over €450 million** to the Group's EBITDA over the life of the Plan, in return for limited investment and risk exposure.

Turning to **International Activities**, following the decision to extract value from the Group's South American assets, Terna will continue with the strategic assessment of opportunities. These may take the form of partnerships, involving the careful selection of projects with a view to ensuring a low risk profile and avoiding the need to tie up large amounts of capital. Terna will look to exploit new opportunities in stable markets from a geopolitical standpoint and with attractive growth potential, such as the United States, where the Terna Group can make available the experience and expertise it has acquired in the design and management of infrastructure, in line with the Company's business strategy.

Over the coming years, **innovation**, new technologies and digitalisation will acquire ever greater importance, playing an increasingly central part in enabling the energy transition for the benefit of the entire system. In response to the growing complexity of the system, Terna intends to **invest approximately €1.2 billion** from the total of €10 billion earmarked for capital expenditure in the 2021-2025 Industrial Plan in digitalisation and innovation, concentrating efforts on the use of advanced technology to remotely control electricity substations and transmission infrastructure. New projects and initiatives will focus on the four technology clusters identified in the Industrial Plan, taking into account global technological trends and Terna's requirements: Digital (intelligent energy and capacity management solutions); Energy Tech (innovative solutions using more efficient, greener technologies); Advanced Materials (research and development resulting in eco-compatible materials to reduce the Group's environmental impact); and Robotics (process automation).

**Terna's people**, with their world-leading technical expertise, are a key asset in enabling the Group to achieve the challenging goals the Group has set itself, confirming Terna's role in driving the transition. The Company has completed the design phase for an ambitious cultural transformation called **NexTerna**, involving the definition of a new leadership model and new ways of working and operating in response to the current scenario. This innovative approach is based on the digitalisation of processes and tools to increase people's efficiency and productivity, bringing logistical benefits and, above all, improving quality of life for all the Company's workers. Terna's people-centric approach is also reflected in the major acceleration in the creation of jobs: over the life of the Plan, the **number of employees is expected to rise to approximately 5,900 by 2025**.

Maintenance of a strong capital structure through robust cash generation will also help to support an attractive dividend policy.

Finally, the Terna Group's ongoing commitment to implementing the Industrial Plan and achieving the related financial targets has enabled the Group to meet and improve on the guidance communicated to the financial markets for 2021 and 2022. These are important milestones on the way to achieving the targets set for 2025, announced on 24 March 2022 at the time of presentation of the **2021-2025 Industrial Plan, "Driving Energy"** to the financial community.

#### Target and results 2021-2022

	2021				2022				
Revenue (€bn)	2.53	>>	2.60	↑	Revenue (€bn)	2.74	>>	2.96	↑
EBITDA (€bn)	1.81	>>	1.85	↑	EBITDA (€bn)	2.0**	>>	2.1	↑
Capex (€bn)	1.4	>>	1.5	↑	Capex (€bn)	1.7	>>	1.8	↑
EPS (€cent)	39	=	39		EPS (€cent)	42**	>>	43	↑
	Target 2021 Plan 2021-2025*		Actual 2021		Target 2021 Plan 2021-2025 Updated		Actual 2022		

\* The figures for 2021 are shown on a pro forma basis to take into account deconsolidation of the South American subsidiaries included in the planned sale of assets.

\*\* Guidance updated in November 2022.

## Identification and assessment of Industrial Plan risks

To evaluate the solidity and reliability of the Industrial Plan and best respond to the needs of key stakeholders, the Terna Group has adopted a methodology that integrates risk assessment and quantification into the business planning process.

To conduct this activity, the Administration, Finance and Control department uses a tool that assesses the degree to which the Group's risk profile is compatible with its strategic goals. The identification and quantification of risks and opportunities (uncertainties) is applied to the Terna Group as a whole (Regulated, Non-regulated and International activities) and requires the direct involvement of all the relevant departments in the form of specific interviews under a bottom-up approach.

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The process requires that, once uncertainties have been identified and quantified, they are managed using a proprietary Monte Carlo simulation model that, starting from the data collected, generates a large quantity of alternative scenarios for development of the variables underlying the Industrial Plan. The methodology thus enables the Company to estimate the overall volatility of the financial targets deriving from the occurrence of key risk events and opportunities and to assess the resilience of the Industrial Plan.

## ESG goals in the 2021-2025 Industrial Plan

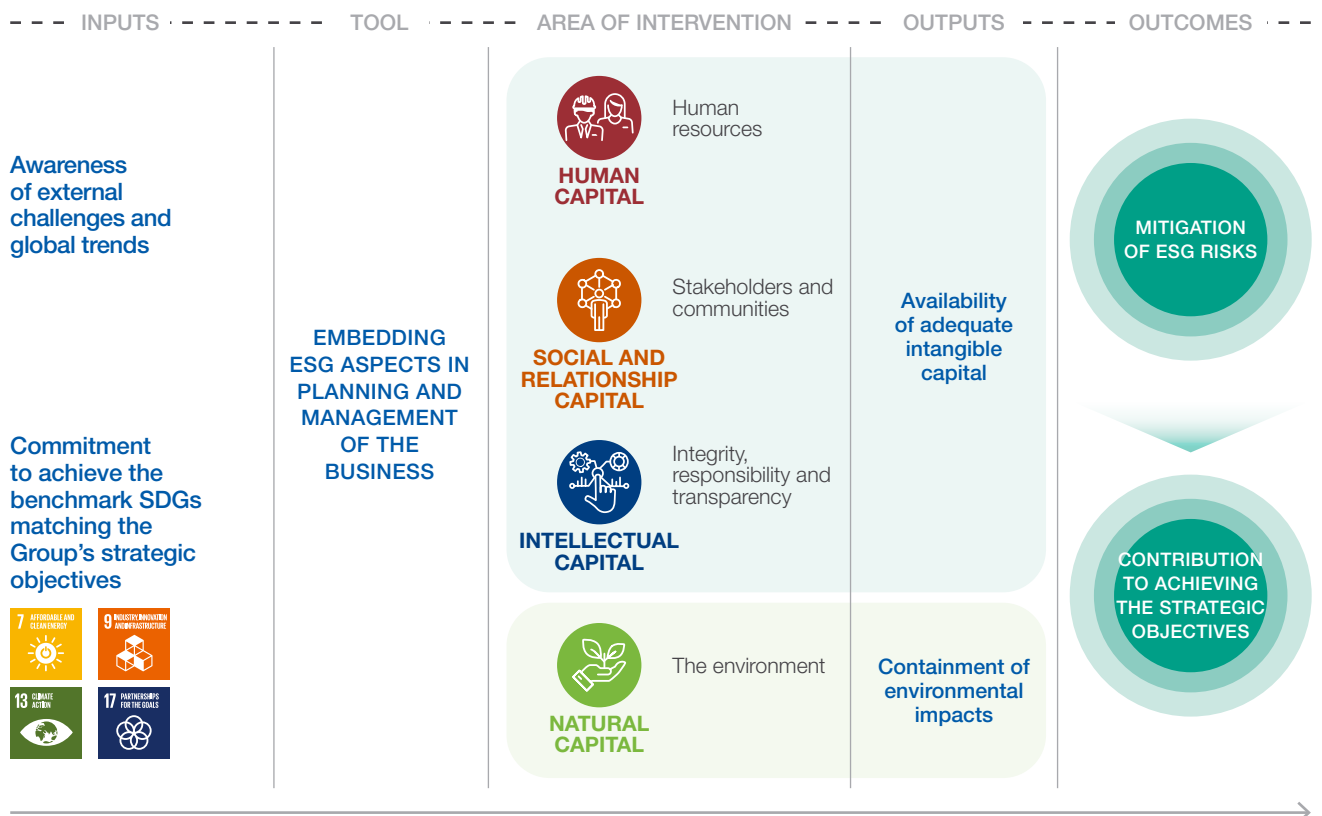
In March 2022, together with the presentation of the "2021-2025 Industrial Plan" to the market, the ESG goals were updated and - in line with the overall presentation of the Group's operations adopted with effect from the 2021 Integrated Report - reorganised in terms of types of capital.

< 2-12

The process of embedding sustainability within the business takes the form of setting objectives aimed at increasing intangible capital and respecting natural capital, including identification of the related risks and definition of appropriate mitigation measures (see pages 84-87).

The ability to monitor, manage, prevent and minimise ESG risks is assessed annually by the main international sustainability rating agencies, which provide an important third-party benchmark that benefits the Company itself and its financial stakeholders (also see pages 170-171).

### The contribution of ESG criteria to value creation



The ESG goals help to increase the availability of certain enabling factors needed for full implementation of the Industrial Plan, mitigate the ESG risks linked to the Group's activities, preserving the related capitals and, more in general, reputational capital (common to all), aim to ensure the sustainability of the business and create value over time, further embedding sustainability within the Group's value proposition and maintaining Terna's attractiveness for investors, who increasingly take these issues into account.

ESG plan: summary of pillars and goals



PRIORITY GOAL

The following table shows, for each individual goal in the ESG Plan, its relationship with the affected intangible capital, with details of the area that benefits most in terms of growth, alongside the type of risk managed.



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**ESG goals: increase intangible capitals and risk control**

ESG PLAN GOALS	GROWTH IN INTANGIBLE CAPITAL						RISK CONTROL		
	INTELLECTUAL CAPITAL			HUMAN CAPITAL		SOCIAL AND RELATIONSHIP CAPITAL		ENVIRONMENTAL IMPACT	SUPPLY CHAIN
	Organisational management		Expertise	Human resources		Stakeholder engagement		Compliance and reputational risk	
	Culture and values	Rules and procedures	Motivation	Talent attraction	Local communities	Corporate stakeholders			
<b>HUMAN CAPITAL</b>									
1 – Health and safety	X	X		X					X
2 – Skills and Development			X						
3 – Diversity and inclusion	X					X			
4 – NexTerna	X	X		X	X				
<b>SOCIAL AND RELATIONSHIP CAPITAL</b>									
5 – Engagement with local communities						X			
6 – Systematic dialogue with stakeholders							X		
7 – Social responsibility initiatives	X			X	X	X	X		
<b>INTELLECTUAL CAPITAL</b>									
8 – Measurement of impacts		X							
9 – Sustainable supply chain		X							
10 – Sustainability culture									X
11 – Codes of conduct and sustainability policies	X								
<b>NATURAL CAPITAL</b>									
12 – Impact of transmission		X	X					X	
13 – Reducing CO <sub>2</sub> emissions								X	
14 – Circularity of operating processes		X			X			X	

The main ESG goals for the period 2021-2025, linked to the benchmark SDGs and their position in the materiality matrix, are covered in the sections on human capital (pages 210, 222 and 229), intellectual capital (pages 196 and 199) and natural capital (pages 262 and 280) The progress made in 2022 towards achieving the targets set in the previous Plan is also reported on, with a summary provided in the following table.

**Targets and results in 2022**

CAPITAL	KPI	2022	
		TARGET	RESULT
HUMAN	Zero fatal accidents (Terna staff)	0	0
	Safety indicator*	≤ 1	0.74
	Number of people trained in the “Energy Transition”, “Sustainability” and “New Ways of Working”	50%	50%
	Women as a percentage of the Group's total workforce, excluding blue-collar workers	22%	22.1%
SOCIAL AND RELATIONSHIP	Staff with performance evaluation (%)	95%	99.1%
	The previous KPI expired on 31 December 2019, before being reformulated in 2021 with the first target set for 2025.	=	=
INTELLECTUAL	Product categories (“PG”) falling within the type of work requiring obligatory certifications ISO:14001 and OHSAS:18001/45001	100%	100%
NATURAL	Km of overhead lines removed/year	73	68
	Km of new underground and submarine lines	158	72
	SF <sub>6</sub> leakage as a percentage of total gas installed	0.45%	0.41%

(\*) The safety indicator is the ratio between the weighted injury rate (weighting: 30%) and lost day weight (weighting: 70%) for the target year and the one for the previous three-year period.

IT4

## Innovation strategy


**SASB** In an expanding and highly complex electricity system, **innovation** and **digitalisation** play an increasingly important role, forming the two pillars that underpin Terna's growth path.

In line with the role in driving and enabling the energy transition set out in the Company's strategy, for Terna, innovation has the purpose of developing new solutions to respond to the growing challenges connected with the achievement of European and national targets.

To fulfil these objectives, the Terna Group is open to new forms of development and partnership with the outside world, with a view to creating interactions with the different actors in the innovation ecosystem and investing in technology initiatives of most value to the Company and for Italy's electricity and energy system. In this broad context, Terna has embraced the **Open Innovation** model, based on the productive, continuous exchange of ideas with internal and external parties in accordance with a **concrete, open, inclusive and distributed approach** that meets the innovation needs identified with the aim of **developing, protecting and exploiting the Group's expertise and intellectual property**.

Based on their potential impact on the business, **four key innovation missions** have been identified with the aim of shaping the future of the Terna Group and of the electricity system within the context of the transition:

- **Managing uncertainty:** solutions that enable the Group to manage development of the electricity system and changes in the factors that affect it (climate change and economic, technological and regulatory factors), ensuring the growing integration of renewable sources, involving a degree of uncertainty by nature.
- **Copper plate grid:** technologies to boost and develop grid sustainability and efficiency and develop solutions capable of improving the performance and resilience of transmission assets.
- **Fully efficient and 0 risk maintenance:** technologies that reduce risks and improve operational performance, including through the automation and digitalisation of processes.
- **Humancentric Corporation:** solutions that take a people-centric approach to promoting safety, wellbeing and health and that help to ease the switch to new ways working.

For additional information, go to page 180 



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In line with Terna's role in driving the energy transition, innovation also focuses on a **fifth mission: "Sustainability and the Energy Transition"**.

To fulfil these missions, the Ideas&Solutions scouting channels enable the Group to identify technologies that meet internal innovation needs and, at the same time, strengthen development activities during the Proof-of-Concept<sup>18</sup> and Demonstrator<sup>19</sup> stages and speed up the development of solutions.

In addition to consolidating the innovation model, at the end of 2022 the Terna Group created a further important asset to help it fulfil its ambitions, above all with regard to the "Sustainability and the Energy Transition" mission. November saw the establishment of Terna Forward S.r.l., a vehicle set up to accelerate the most disruptive initiatives capable of having a major impact on the Terna Group, in part through corporate venture capital investments.

<sup>18</sup> Proof of concept: evidence, typically deriving from an experiment or pilot project, which demonstrates that a design concept or business proposal is feasible;





<sup>19</sup> Demonstrator: a real-size model designed to become the basis for mass production, built during the last phase of a trial to demonstrate how the product performs in an operating environment.



## The 2030 goals

Terna's business model describes operating activities that are inherently linked to medium- and long-term goals. In terms of achieving these goals, the Development Plan, covering a period of ten years from the date of publication, is the main document for planning the electricity infrastructure needed to ensure not only the quality, continuity and security of the electricity service in Italy but, above all, the achievement of a just and inclusive energy transition.

In keeping with the **environmental and social sustainability goals promoted nationally and internationally, a number of 2030 goals have been included in the updated 2021-2025 Industrial Plan, "Driving Energy"**. Finally, Terna's Science Based Target (SBT) was revised at the beginning of 2023 to make it even more challenging (see page 260).

CAPITAL	KPI	TARGET	
		2025	2030
 Human	Women as a percentage of the workforce (assumption: base year 2019)	20%	22%
	Women as a percentage of the workforce, excluding blue-collar workers (assumption: base year 2019)	25%	27%
	Workplace safety indicator for Terna Group personnel working in the electricity sector	≤1	≤1
 Social and Relationship	Percentage of major works accompanied by stakeholder engagement initiatives. Specifically:		
	High-priority electricity works and capex threshold >€50m	100%	-
	High-priority electricity works and capex threshold €10-50m or Medium-priority works and capex threshold >€50m	-	100%
 Intellectual	Percentage of employees trained in ESG issues	-	100%
 Natural	Reduction in Scope 1 and Scope 2 CO <sub>2</sub> emissions in line with the Science Based Target ("SBT" - base year 2019)	-	-46.2%
	Annual CO <sub>2</sub> avoided thanks to projects in 2021 Development Plan (in equivalent tonnes)	-	5.6 million



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# NexTerna

UM2

Launched at the beginning of 2021, NexTerna is cultural transformation programme involving everyone at Terna, with the aim of capitalising on the new ways of working imposed by the pandemic and making them permanent. The new approach is more suited to achieving the objectives set in the Industrial Plan, but also to simplifying how we work, with benefits for the people's quality of life.

The key component of the whole programme, which started by rethinking the leadership model, coincided with innovation and digitalisation initiatives, crucial in responding to the complexity of the energy transition but also in key to introducing a new agile, inclusive approach to work.

Responsibility for the NexTerna programme lies with a Steering Committee chaired by the Chief Executive Officer and consisting of the executives who report directly to him, whilst coordination has been assigned to the "People Organization & Change" and "Innovation & Market Solutions" departments. In line with its goals, the programme focuses on seven topic areas, for which the targets and key outcomes are reported below (further details are provided in the section, "Human capital", from page 203).

## NexTerna topic areas – targets and principal outcomes

**New leadership model** to inspire and guide day-to-day behaviours.



- Development of the **Leading NexT** model.

**Care for Terna's people**, through **continuous learning** and the development of a **new mentality**.



- New process for assessing Engagement using the new survey tool **eNPS** (Employee Net Promoter System);
- Launch of the **Terna Academy**;
- Launch of the **WellbeingInAction** programme.

Innovate and simplify activities using **advanced methods of collaboration** able to encourage **new group dynamics**.



- Launch of **16 solutions co-designed by agile teams**, already used by over 2,000 employees.

Disseminate a **sustainability culture** throughout the Company and **encourage communication** as a means of embedding and exchanging best practices.



- Definition and publication of the Terna Group's **Sustainability Policy**;
- introduction of **innovative, eco-friendly mobility solutions**;
- launch of the "**EcoTips** good sustainability practices" section of the Company's intranet.

Define the **best technological support** to enable new ways of working, facilitating collaboration, interaction and experimentation.



- Introduction of the "**GoSign**" digital signature, used regularly by more than 650 employees;
- **Office@home** best equips people to work remotely.

Rethink **workspaces** adopting a **hybrid model** based on flexibility, sharing, collaboration and multi-service access.



- Adoption of **desk sharing**, involving more than 1,200 people;
- Opening of two new **co-working spaces**.

A **rethink of how to involve and interact** with social partners to accelerate the pathway to New Ways of Working.

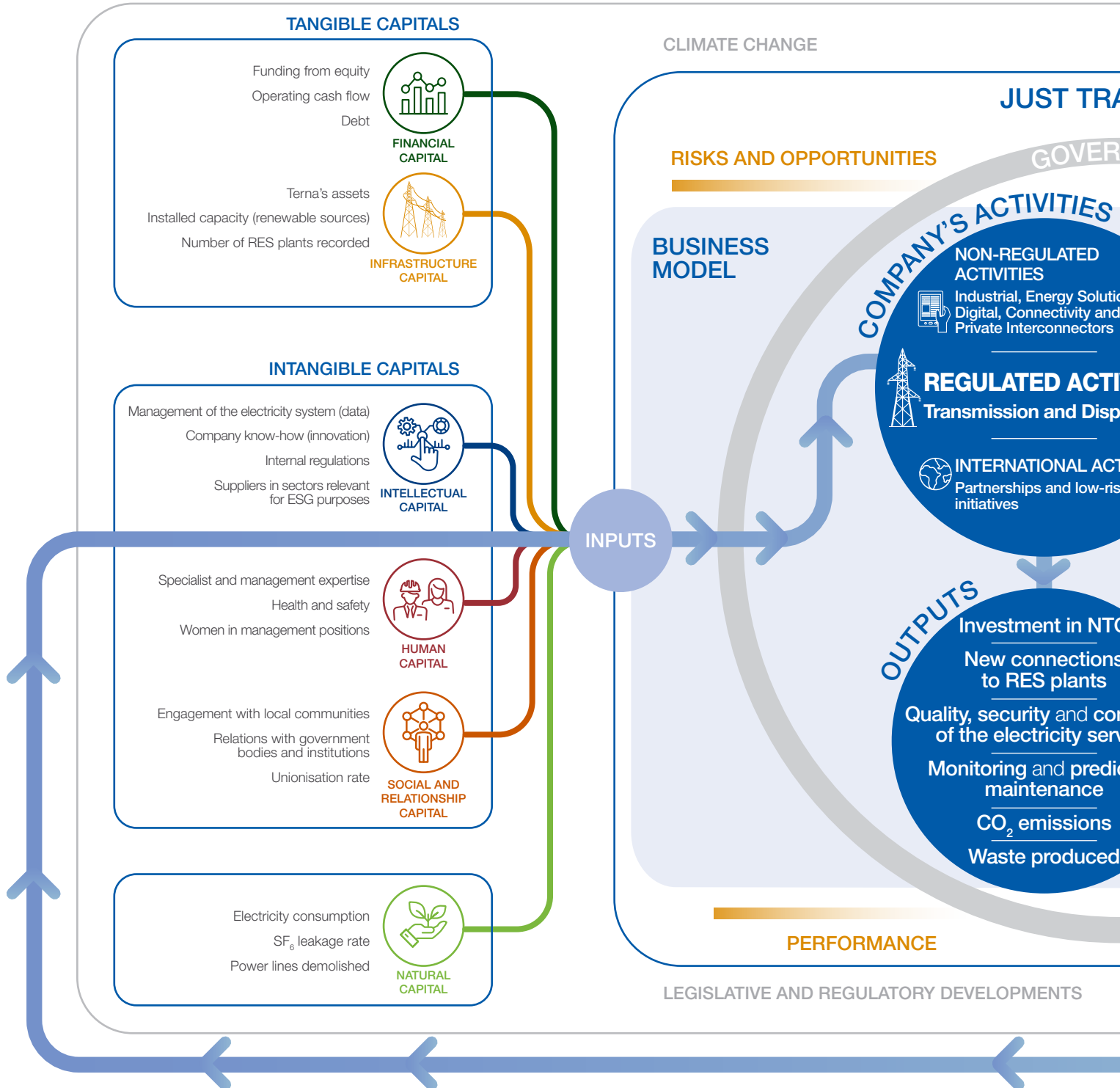


- Preparation of the **New Industrial Relations protocol** for Terna Group companies governed by the national collective labour agreement for people working in the electricity sector.

Having completed the pilot (2021) and experimental (2022) phases of NexTerna, at the end of 2022, the projects developed within each of the seven topic areas were integrated into the new business processes adopted by the Terna Group.

A new phase will begin in 2023, focusing on "Maintenance" of what has been produced and learnt in the previous two years, overseeing and monitoring the various activities. This task has been assigned to the "People Organization & Change" department with support from the "CEO's Office" and the "Innovation & Market Solutions", "Corporate Affairs" and "External Relations, Institutional Affairs and Sustainability" departments.

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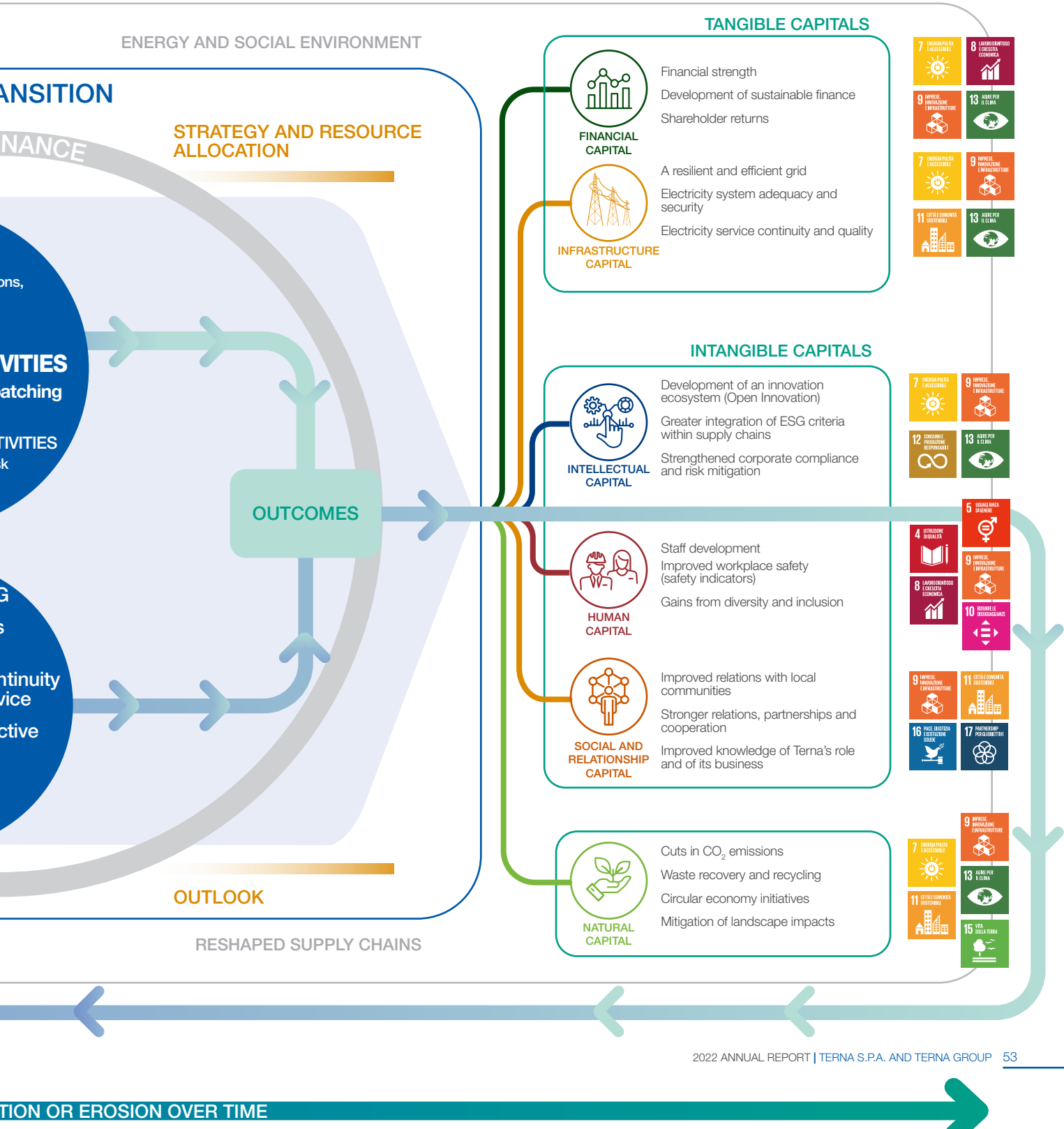
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## Terna's value creation



In this Report, the Terna Group provides all its stakeholders with a presentation of its ability to create value over time through implementation of a **sustainable business model**, with the appropriate tools for monitoring and measuring, using specific indicators, its financial, operational, social and environmental performances for the year.

Terna's process for creating value over time<sup>20</sup> is shaped by a form of **governance** that targets sustainable success through the definition of a solid medium- to long-term **strategy**, based on the **2023 Development Plan** and the **2021-2025 Industrial Plan**, with the aim of delivering a **just transition**. The other key element that will contribute to achieving a just transition is the correct **allocation of the necessary resources**, which Terna manages by focusing its investment on the efficiency and resilience of the national transmission grid (NTG) and by assessing and managing the financial and ESG **risks** connected with the business and the related potential **opportunities**.

Terna's business model is divided into three separate lines of business (Regulated Activities, Non-regulated Activities and International Activities). These correspond with the core business (Electricity Transmission and Dispatching) and the two complementary deregulated areas of operation, consisting of the design, engineering, operation and maintenance of energy market solutions (Non-regulated Activities) and the development of partnerships and projects with a low risk profile (International Activities).

Terna thus pursues **sustainable growth** by focusing all its operating activities, via the responsible use of all the available **capitals**, on the priority goal of delivering a just transition, whilst also paying attention to social aspects.

The capitals represent the key resources at Terna's disposal to create (and preserve) value over time through their continual combination and interaction, both within the Company and with the outside world, including in the latter key stakeholders. They thus play a key role in the value creation process, representing, at one and the same time, **inputs** that can be measured from one year to another (on the left side of the infographic), **outputs** representing results in terms of the organisation's products, services, by-products and waste<sup>21</sup> (at the centre of the infographic) and **outcomes**, representing their ability to grow or change or to contribute to the achievement of the objectives set by the Company in its strategic plans (on the right). This representation is the most effective response to growing demand for reporting that is not just aimed at financial stakeholders, who are quite legitimately focused on making a return on their investment, but that also includes the intangible value generated for the benefit of all the other stakeholders and the environment in which the Group operates.

Terna's energy transition is thus based on monitorable targets and measurable outcomes. This is why at the beginning of each section a table providing a summary of the inputs, outputs and outcomes relating to the main results and activities dealt with in each section, quantifying the content of the value creation process.

## Benchmark SDGs

The United Nations' Sustainable Development Goals (SDGs), forming the heart of the 2030 Agenda, represent a benchmark closely linked to our mission and the strategic objective of delivering a just transition that coincides with SDGs 7 (Affordable and clean energy), 9 (Industry, innovation and infrastructure) and 13 (Climate action) and 17 (Partnership for the goals).

<sup>20</sup> Terna has adopted the principle-based framework proposed by the International Integrated Reporting Council (IIRC). The guiding principles are: (1) Strategic focus and future orientation, (2) Connectivity between information, (3) Stakeholder responsiveness, (4) Materiality, (5) Conciseness, (6) Reliability and completeness, (7) Consistency and comparability. These form the basis of the framework. Their almost total coincidence with the guiding principles in the GRI standard 101 – Foundation setting out the content of quality ESG reporting further strengthens the structure of this Report.

<sup>21</sup> [https://www.integratedreporting.org/wp-content/uploads/2021/09/IRFRAMEWORK\\_ITALIANO.pdf](https://www.integratedreporting.org/wp-content/uploads/2021/09/IRFRAMEWORK_ITALIANO.pdf)



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**Terna's benchmark SDGs**



Ensure access to affordable, reliable, sustainable and modern energy for all.



Build resilient infrastructure, promote inclusive and sustainable industrialisation and foster innovation.



Take urgent action to combat climate change and its impacts.



Strengthen the means of implementation and revitalise the global partnership for sustainable development.

The changed socioeconomic environment, heavily impacted by the effects of the pandemic, inflation and the energy crisis caused by the conflict in Ukraine, has, on the one hand, made it even more urgent to fully deliver the energy transition – which has taken on renewed importance as a response to the goal of providing Italy with energy independence and security – and, on the other, redefined it in terms of social equity and inclusion. In other words, it is necessary for the path to decarbonisation to coincide with a restart of economies based around inclusive and resilient models. This must also take into account social aspects, with priority given to the need to combat the progressive erosion of social cohesion and, more generally, respect for human rights.

Taken as a whole and including general sustainability considerations able to create value in the medium- to long-term, the SDGs are also a clear benchmark from an operational standpoint to which Terna refers in carrying out its activities. These SDG's steer Terna towards achieving environmental objectives (e.g., efficient use of natural resources, respect for the environment, life under water, reduction of CO<sub>2</sub> emissions, the reduction and recycling of waste), social objectives (quality education, respect of human rights and gender equality) and good governance objectives (fighting corruption and transparent reporting), as shown in the materiality matrix (see page 56).

In this sense, Terna also strives to achieve SDGs 4 (Quality education), 5 (Gender equality), 8 (Decent work and economic growth), 10 (Reduced inequalities), 11 (Sustainable cities and communities), 12 (Responsible consumption and production), 14 (Life under water), 15 (Life on land) and 16 (Peace, justice and strong institutions).

**Benchmark SDGs for the management of Terna's activities**



Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all.



Reduce inequality within and among countries.



Conserve and sustainably use the oceans, seas and marine resources for sustainable development.



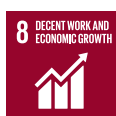
Achieve gender equality and empower all women and girls.



Make cities and human settlements inclusive, safe, resilient and sustainable.



Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss.



Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all.



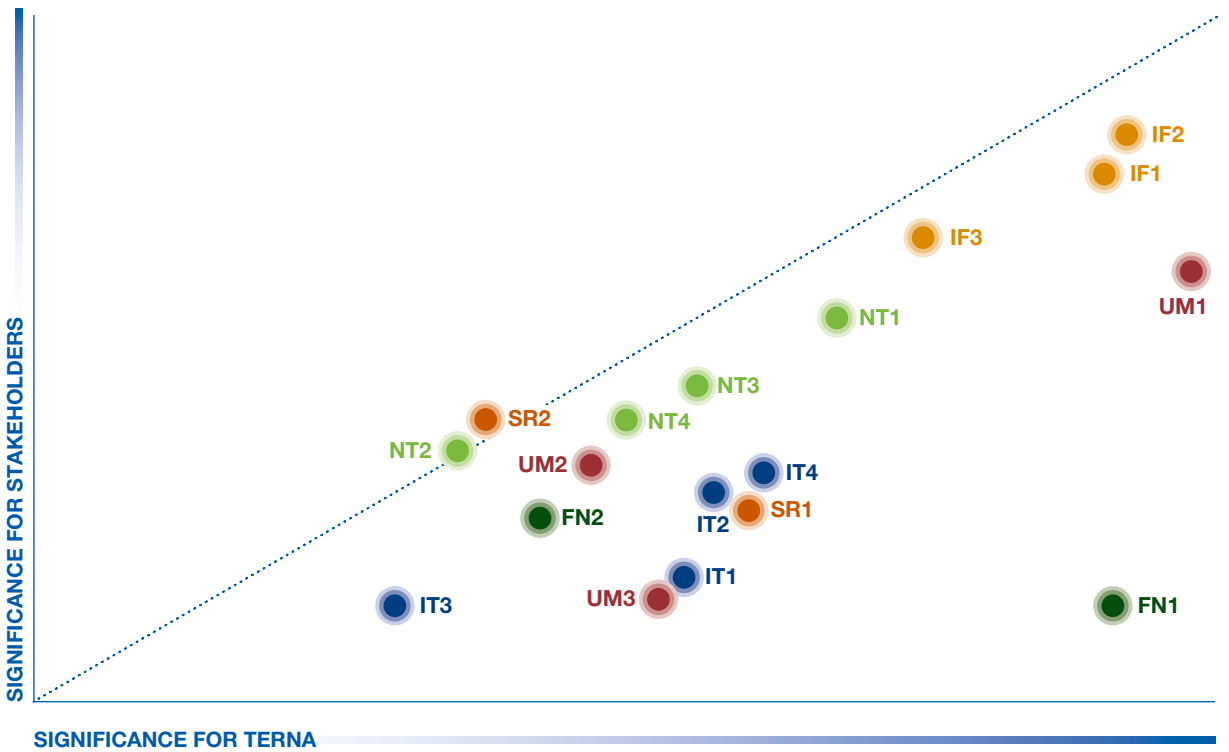
Ensure sustainable consumption and production patterns.



Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels.

# Materiality analysis

Materiality matrix



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**Key**

CAPITAL	MATERIAL TOPIC	JUST TRANSITION	HUMAN RIGHTS	SDGs
 <b>FINANCIAL</b>	<b>FN1</b> – Delivering on financial and performance goals			
	<b>FN2</b> – Economic impacts on the community			
 <b>INFRASTRUCTURE</b>	<b>IF1</b> – Delivering the energy transition			
	<b>IF2</b> – Quality, security and continuity of the electricity service			  
	<b>IF3</b> – Grid resilience			
 <b>INTELLECTUAL</b>	<b>IT1</b> – Governance model effectiveness			
	<b>IT2</b> – Cybersecurity and protecting privacy			  
	<b>IT3</b> – Sustainable supply chain			 
	<b>IT4</b> – Innovation and digitalisation			
 <b>HUMAN</b>	<b>UM1</b> – Workplace health and safety and workers' rights			
	<b>UM2</b> – HR development and wellbeing			  
	<b>UM3</b> – Advancement of inclusion and diversity			
 <b>SOCIAL AND RELATIONSHIP</b>	<b>SR1</b> – Business integrity			 
	<b>SR2</b> – Management of stakeholder relations			 
 <b>NATURAL</b>	<b>NT1</b> – Environmental impact of electricity infrastructure on local areas			
	<b>NT2</b> – Protecting biodiversity			  
	<b>NT3</b> – Reducing the Group's CO <sub>2</sub> emissions			  
	<b>NT4</b> – Promoting the circular economy			

The **materiality matrix** provides a graphical representation of the materiality analysis, the tool used to guide the reporting process – as one of the guiding principles adopted in the leading international reporting standards and in Legislative Decree 254/2016, which introduced the “Consolidated non-financial statement” (NFS) – and is one of the inputs into the planning of sustainability initiatives.

The materiality matrix places sustainability topics based on their significance for Terna (x axis) and for stakeholders (y axis), identifying the most significant topics for both (also referred to as “material topics”). In the matrix, the most significant topics are those furthest from the origin; the most important topics in absolute terms are the ones furthest from the origin and, at the same time, closer to the bisector.

The chart on the previous page shows the Matrix resulting from the survey conducted at the end of 2022. As shown in the matrix for 2022, the five **most significant topics** are: **Quality, security and continuity of the electricity service; Delivering the ecological transition; Workplace health and safety and workers' rights; Grid resilience and Environmental impact of electricity infrastructure on local areas**. To complete the analysis, material topics and the related impacts were also linked to key human rights, the benchmark Sustainable Development Goals (SDGs) and the relevant capitals. Topics relating to the Just Transition were also highlighted (see the key to the materiality matrix).

## 3-1 > Methodology and key outcomes

The choice of topics on which this Integrated Report is based reflects the latest materiality analysis, which is updated annually in accordance with the GRI Sustainability Reporting Standards, the principal international standards adopted by Terna since the annual reporting period for 2006.

The analysis conducted in 2022 to assess the significance of topics was carried out as follows:

- in updating the **“significance for Terna”** aspect, in keeping with the form of engagement used in previous years, an online questionnaire was distributed to the Group’s second line managers. The results were then weighted against the outcome of an assessment of internal documents and the results of the analysis conducted in 2021;
- with regard to the **“significance for stakeholders”** aspect, the results were obtained via an online questionnaire to be completed by stakeholders who, in addition to those engaged with in previous years (investors, distributors, the media, opinion groups, non-regulated customers, suppliers and representatives of local interest groups), also included the category defined by the GRI as “sustainability experts” (from other companies, including a number of European TSOs) and financial analysts. The results of the survey were then combined with an assessment of internal documents representing the stakeholder priorities and key sustainability trends before being weighted against the results of the analysis conducted in 2021.

## 2-12 > Impact assessment

In line with the new GRI 3 standard, in addition to analysing the significance of topics, the updated materiality analysis for 2022 also involved an **assessment of the impacts on stakeholders and the environment generated** by the Group.

Last year, the Terna Group conducted an initial due diligence process regarding the Terna Group’s impacts using an “Impact assessment tool”, which was further perfected for the analysis in 2022. Based on the parameters set out in the GRI 3 standard (“likelihood”; “scope”; “scale” and “irremediable character”), documents published by Terna during the previous reporting period were verified to analyse the materiality of the impacts (actual, potential, positive, negative) generated by the Group (the “inside-out” or “impact materiality” perspective). Another input for this year’s assessment resulted from a section of the online questionnaire focusing on impacts and the conduct of focus groups with the aim of identifying and assessing impacts.

The results of these three assessment tools were then combined so as to rank topics based on the materiality of the related impacts. The first five are shown below:

### Material topic

---

Quality, security and continuity of the electricity service

---

Grid resilience

---

Workplace health and safety and workers’ rights

---

Reducing the Group’s CO<sub>2</sub> emissions

---

Delivering the energy transition

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These results, as shown in the matrix, do not differ significantly from the outcome of the materiality analysis.

Further details on the impact assessment are provided in the section, "Information on the NFS", on page 289.


In addition to the impacts generated by the Group, it was decided to bring forward an **initial assessment of the impacts affecting** the organisation (the "outside-in" or "financial materiality" perspective), conducted in line with the **double materiality** concept, in advance of the date provided for in the draft version of the standard, ESRS 1 General requirements<sup>22</sup>, issued by the European Financial Reporting Advisory Group (EFRAG). The assessment started from the analyses conducted by Terna in previous years in accordance with the principles in the Integrated Reporting Framework (IIRC), focusing solely on financial stakeholders. In addition to the aspects already taken into account (an assessment of the significance of sustainability topics for categories of financial stakeholder and a study of documents setting out the priorities for this category of stakeholder), the process conducted in 2022 also included a specific section of the stakeholder survey examining the impacts and a focus group on financial materiality. The outcomes were then processed and input into the impact assessment tool.

Based on this analysis, the topics deemed to be most significant in terms of their impact on the Group (according to an outside-in perspective) are: Delivering the energy transition; Quality, security and continuity of the electricity service; Delivering on financial and performance goals; Grid resilience and Reducing the Group's CO<sub>2</sub> emissions.



<sup>22</sup> See the draft published by EFRAG on 15 November 2022 ([https://www.efrag.org/Assets/Download?assetUrl=%2Fsites%2Fwebpublishing%2FMeeting%20Documents%2F2211141505388508%2FDRAFT%20ESRS%201%20General%20requirements%2014%20November\\_.pdf](https://www.efrag.org/Assets/Download?assetUrl=%2Fsites%2Fwebpublishing%2FMeeting%20Documents%2F2211141505388508%2FDRAFT%20ESRS%201%20General%20requirements%2014%20November_.pdf))





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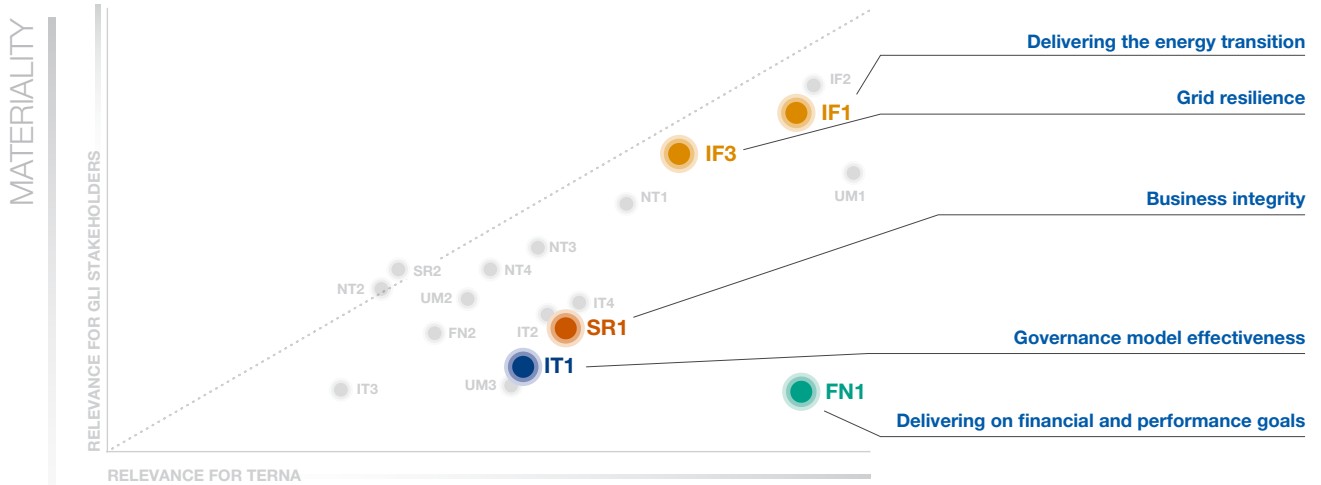
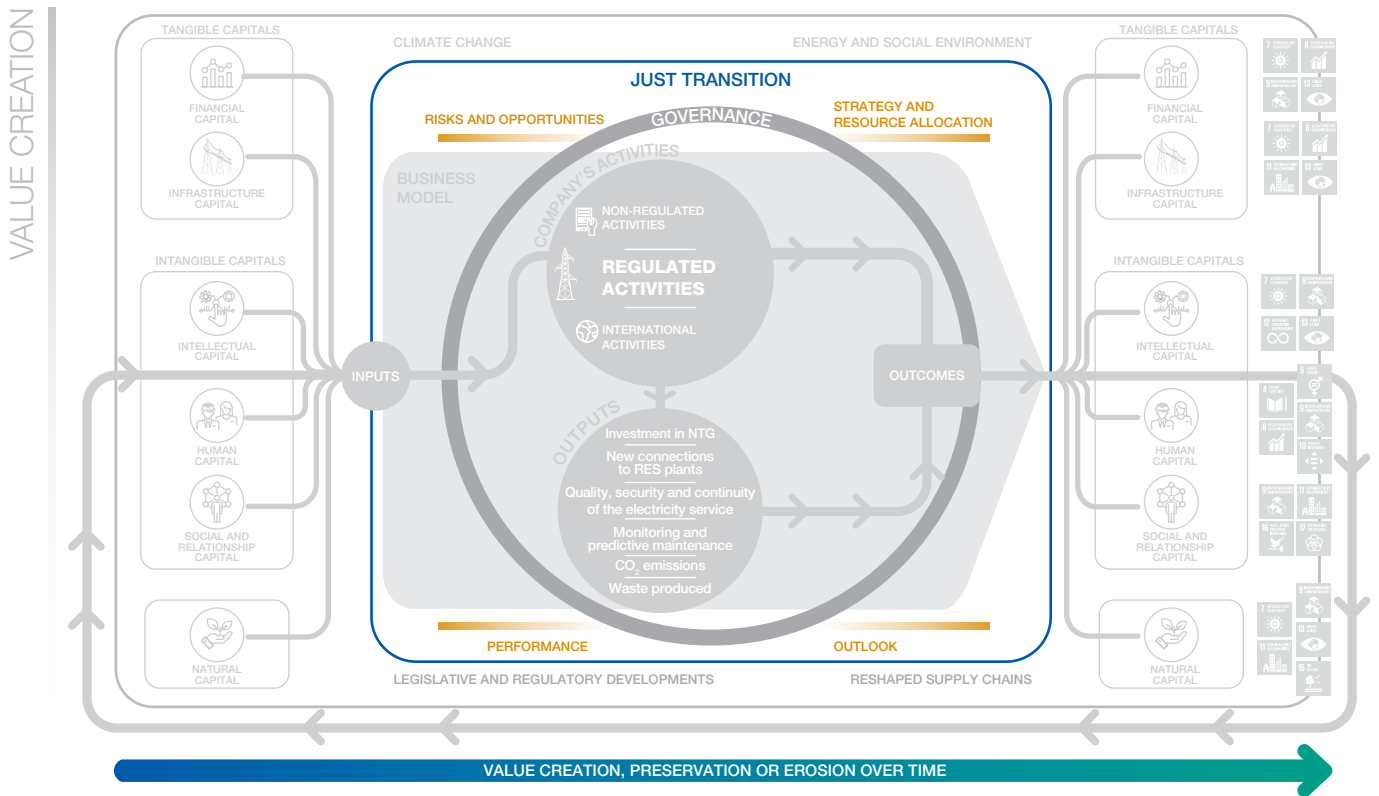
## Corporate governance, risk management and opportunities

## In this section

The way the Group's structure has developed, maintaining a clear focus on the objectives set in the updated 2021-2025 Industrial Plan, and the growing proportion of shareholders who have in part invested on the basis of an assessment of the Group's ESG performance clearly delineate the Terna Group's purpose: to deliver a just transition that not only benefits Italy but also the planet. Corporate governance has a decisive role to play in this sense, as it focuses on the achievement of sustainable success through an ethical approach to doing business and the prudent management of risk – including ESG risks, above all those linked to climate change – and the associated new opportunities, both in terms of business and with regard to reinforcing the Group's reputational capital.







These infographics highlight the topics dealt with in this section with the aim of **facilitating information connectivity**: in this way, the section offers an overall view showing the links between all the factors that influence Terna's ability to create value over time and how they are dependent on each other. Material topics are indicated with a cross-reference in blue, showing the relevant code.

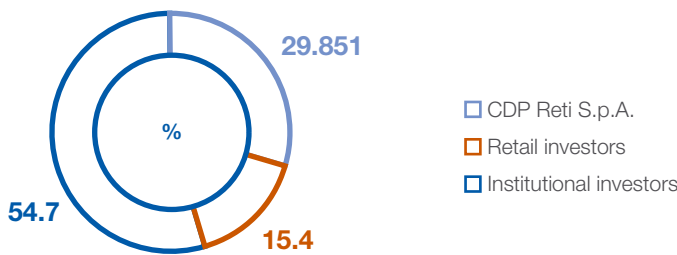
# Ownership structure

At the date of preparation of this report, **Terna's share capital amounts to €442,198,240**, comprising 2,009,992,000 fully paid-up ordinary shares with a par value of €0.22 each.

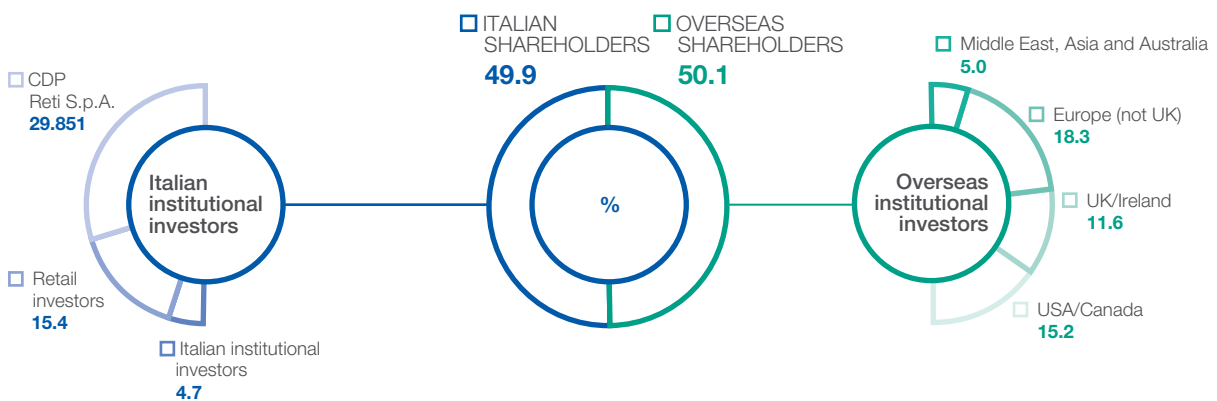
Based on periodic surveys carried out by the Company, it is estimated that 49.9% of Terna's shares are held by Italian shareholders, with the remaining 50.1% held by overseas institutional investors, primarily from Europe (not UK) and the USA.

Based on information from the shareholder register and other data collected in February 2023, Terna's shareholder structure breaks down as follows.

## Shareholders by category



## Shareholders by geographical area and category



The Parent Company's buyback of **1,280,717 own shares** (equal to 0.064% of the share capital) was completed in June at a cost of €9,999,993. The shares were purchased in implementation of the buyback programme to service the Performance Share Plan 2022-2026.

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## Major shareholders<sup>23</sup>

### CDP RETI S.p.A.<sup>24</sup>

(a company controlled by  
Cassa Depositi e Prestiti S.p.A.):

**29.851%**

At the end of 2022, 173 socially responsible investors (SRIs) had invested in Terna's shares using an approach that takes into account ESG (Environmental, Social, Governance) aspects (161 in 2021 and 160 in 2020). Overall, at the end of 2022, SRIs represented 20.4% of Terna's free float (18.8% in 2021 and 16% in 2020) and 26.1% of the capital held by identifiable institutional investors (25.2% at the end of 2021 and 21.4% in 2020).

**SRIs**

Terna has adopted a policy that provides for the payment of dividends twice a year.

The interim dividend for 2022 amounted to 10.61 euro cents (payable from 23 November 2022), whilst the Board of Directors will propose payment of a final dividend of 20.83 euro cents at the Annual General Meeting to be held in single call on a date between 8 and 15 May 2023. Further information on the dividend history is available on the website at [www.terna.it](http://www.terna.it).

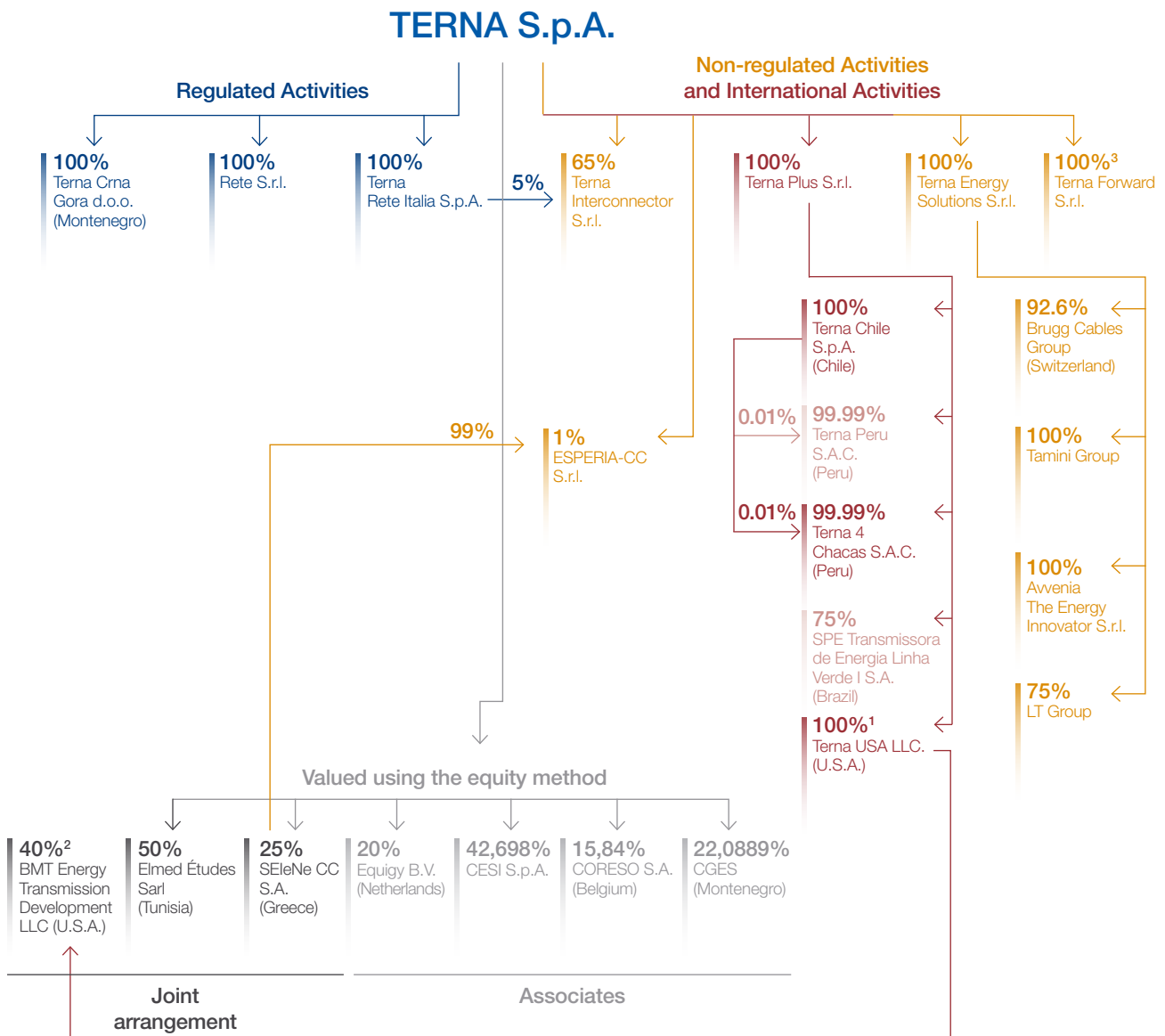
Information on the ownership structure, restrictions on the transfer of shares, securities that grant special rights, and restrictions on voting rights, as well as on shareholder agreements, is provided in the "Report on Corporate Governance and Ownership Structures" for 2022. This is published together with the Annual Financial Report of Terna and the Terna Group and is available in the "Sistema di Corporate Governance – Governance Report" section of Terna's website.

<sup>23</sup> Shareholders who, based on the available information and notifications received from the CONSOB, own interests in Terna S.p.A. that are above the notifiable threshold established by CONSOB Resolution 11971/99 and Legislative Decree 58/98, as amended.

<sup>24</sup> On 27 November 2014, a shareholder agreement was entered into by Cassa Depositi e Prestiti S.p.A. (CDP), on the one hand, and State Grid Europe Limited (SGEL) and State Grid International Development Limited (SGID), on the other, in relation to CDP Reti S.p.A., SNAM S.p.A. and Terna S.p.A.. This was later amended and supplemented to extend the scope of the agreement to include Italgas S.p.A..

# 2-1 > 2-2 > Structure of the Group

In line with the role of enabler and driver of the current ecological transition and the related objectives, the structure of the Group reflects a series of changes at 31 December 2022. These are described in the following notes.



\* Companies involved in the planned sale of subsidiaries operating in Latin America, classified as assets held for sale.

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Compared with 31 December 2021:

#### • Companies established:

<sup>1</sup> The US-registered company, Terna USA LLC., a wholly owned subsidiary of Terna Plus S.r.l., was established on **2 August 2022**. The company is responsible for overseeing development of the business in North America.

<sup>2</sup> The US-registered company, BMT Energy Transmission Development LLC, 40% owned by the subsidiary, Terna USA LLC, with the remaining shares held by non-controlling shareholders, was established on **2 November 2022**.

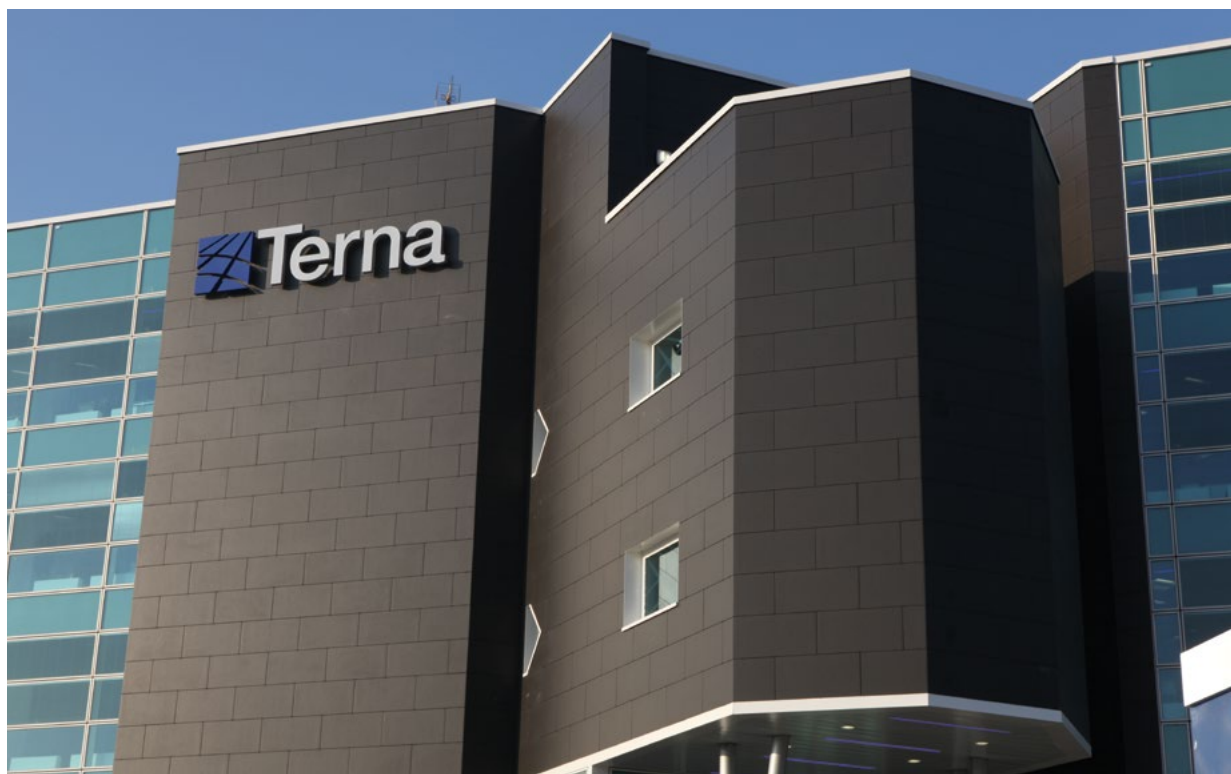
<sup>3</sup> Terna Forward S.r.l., engaged in the development of new technological solutions for use by the Terna Group and a wholly owned subsidiary of the parent Company, Terna S.p.A., was established on **11 November 2022**.

#### • Liquidations and disposals:

The voluntary liquidation of PI.SA. 2 S.r.l., which began on 10 December 2021, was completed on **27 January 2022**.

The first transaction closing for the sale to CDPQ of the Brazilian companies, SPE Transmissora de Energia Linha Verde II S.A., SPE Santa Lucia Transmissora de Energia S.A. and SPE Santa Maria Transmissora de Energia S.A., was completed on **7 November 2022**. From this date, the companies are no longer a part of the Terna Group.

The first transaction closing for the sale to CDPQ of Difebal S.A. was completed on **22 December 2022**. From this date, the company is no longer a part of the Terna Group.



DNF

### Parent company

COMPANY	WORKFORCE AND REVENUE
---------	-----------------------

2-1 >

2-2 >

207-4 >

<b>Terna S.p.A.</b>	Employees: 1,067 Revenue: €2,520.5m
---------------------	--

### Subsidiaries with Regulated Activities

COMPANY	BUSINESS
---------	----------

<b>Terna Rete Italia S.p.A.</b> Employees: 3,369 Revenue: €503.7m	All regulated activities related to operation, routine and extraordinary maintenance, management and development of the NTG.
---	--

<b>Rete S.r.l.</b> Employees: - Revenue: €138.0m	Acquired in 2015 from Ferrovie dello Stato Italiane (Italian State Railways) group, the company owns 8.3% of the NTG infrastructure.
--	--

<b>Terna Crna Gora d.o.o.</b> <i>Incorporated under Montenegrin law</i> Employees: 11 Revenue: €15.1m	Management of construction of the Italy-Montenegro interconnector, on the Montenegrin side.
--	---

### Subsidiaries with Non-Regulated Activities

COMPANY	BUSINESS
---------	----------

<b>Terna Energy Solutions S.r.l.</b> Employees: 72 Revenue: €36.7m	Development of new activities and business opportunities in the Italian non-regulated market.
--	---

<b>Tamini Group</b> Employees: 349 Revenue: €180.6m	Production and marketing of industrial and power transformers.
---	--

<b>Avvenia The Energy Innovator S.r.l.</b> Employees: 17 Revenue: €1.8m	Implementation of energy efficiency projects, including via EPC (Energy Performance Contract) solutions.
---	--

<b>Terna Interconnector S.r.l.</b> Employees: - Revenue: €24.7m	Development and construction of private infrastructure for interconnections with other countries.
---	---

<b>LT Group</b> Employees: 123 Revenue: €42.9m	Design, construction and maintenance of renewable power plants.
--	---

<b>ESPERIA-CC S.r.l.</b> Employees: - Revenue: €1.9m	Services for calculating electricity transmission capacity to allocate in the energy markets. Provision of studies, analyses, data, research and services in the role of Regional Security Coordinator or Regional Coordinator Center, including the coordination of security assessments.
--	--

<b>Brugg Cables Group</b> <i>Incorporated under Swiss law</i> Employees: 455 Revenue: €210.5m	Design, development, production, installation and maintenance of terrestrial electric cables and accessories for high-voltage cables.
--	---

<b>Terna Forward S.r.l.</b> Employees: - Revenue: -	Development of new technological solutions for the Terna Group.
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**Subsidiaries with International Activities**

COMPANY	BUSINESS
<b>Terna Plus S.r.l.</b> Employees: 16 Revenue: €0.9m	Development of new activities and business opportunities in the non-regulated international market.
<b>Terna Chile S.p.A.</b> <i>Incorporated under Chilean law</i> Employees: - Revenue: -	Management of activities involved in the design, construction and maintenance of electricity infrastructure.
<b>Terna Peru S.A.C.</b> <i>Incorporated under Peruvian law</i> Employees: 4 Revenue: €2.0m	Management of activities involved in the design, construction and maintenance of electricity infrastructure.
<b>Terna 4 Chacas S.A.C.</b> <i>Incorporated under Peruvian law</i> Employees: - Revenue: €0.7m	Construction of the Parish of San Martàn Papa de Chacas in Peru, of a power line in the city of San Luis and the supply of a number of components to be used in the construction of a substation.
<b>SPE Transmissora De Energia Linha Verde I S.A.</b> <i>Incorporated under Brazilian law</i> Employees: 14 Revenue: €16.3m	Management of activities involved in the design, construction and maintenance of electricity infrastructure.
<b>Terna USA LLC</b> <i>Incorporated under US law</i> Employees: - Revenue: -	Overseeing development of the business in North America and exploitation of Terna's industrial expertise, above all in the delivery of major projects.

**Associates or joint arrangements<sup>25</sup>**

COMPANY	BUSINESS
<b>CESI S.p.A.</b> Employees: 844 Revenue: €153.1m	Pure and applied scientific research aimed at making advances in the electro-technical, energy, electronic and IT sectors.
<b>CORESO S.A.</b> <i>Incorporated under Belgian law</i> Employees: 82 Revenue: €25.7m	Management of daily forecasting and real-time analysis of energy flows in central and western Europe, identifying possible critical issues and promptly informing the TSO concerned.
<b>CGES<sup>26</sup></b> <i>Incorporated under Montenegrin law</i> Employees: 333 Revenue: €76.5m	TSO for Montenegro's electricity market. Investment acquired as part of the Italy-Balkans interconnector project.
<b>Elmed Études Sarl</b> <i>Incorporated under Tunisian law</i> Employees: 2 Revenue: -	Jointly controlled by Terna and the Tunisian company, STEG, the company is engaged in carrying out preparatory studies for construction of the infrastructure required to connect the Tunisian and Italian electricity systems.
<b>SEleNe CC S.A.</b> <i>Incorporated under Greek law</i> Employees: 10 Revenue: €1,784.1m	The Company's objective is to enhance the secure supply of electricity in markets adhering to the relevant European Regional Initiative.
<b>Equigy B.V.</b> <i>Incorporated under Dutch law</i> Employees: 14 Revenue: €6.9m	Management of a blockchain platform to foster the inclusion of new flexible resources in the system services market
<b>BMT Energy Transmission Development LLC</b> <i>Incorporated under US law</i> Employees: n/a <sup>27</sup> Revenue: n/a	To develop and manage initiatives in the United States in the field of power grids.

<sup>25</sup> The data refer to 2021 and the latest approved financial statements.<sup>26</sup> In full, "Crnogorsk Elektroprenosmi Sistem Ad".<sup>27</sup> Data not available as the company was established in 2022.

IT1

# Corporate governance and sustainable success

2-9 > Terna plans, manages and monitors all of its activities, paying close attention to their possible economic, social and environmental impact by embedding sustainability in its approach to business. In line with the principles of the Corporate Governance Code, which assigns the Board of Directors, among others, the task of promoting *in the most appropriate manner, dialogue with shareholders and other stakeholders relevant to the company*, Terna adopts all the best tools to create, maintain and consolidate a relationship of mutual trust with its stakeholders, which is instrumental in creating value for the Company, society and the environment. The values underpinning Terna's approach to sustainability are set out in the Code of Ethics and are given substance in its mission, which in turn is aligned with the United Nations SDGs (Sustainable Development Goals), above all Goals 7 ("Affordable and clean energy"), 9 ("Industry, innovation and infrastructure"), 13 ("Climate action") and 17 ("Partnerships for the goals"), which define responsibilities and objectives in keeping with the Terna's role in driving and enabling the Italian energy system and the Company's energy transition.

## Sustainable success in the Corporate Governance Code

Sustainable success is the objective that guides the Board of Directors' actions and takes shape in the **creation of long-term value for the benefit of shareholders, taking into account the interests of other stakeholders relevant to the Company.**

The Board **leads** the Company pursuing **sustainable success**

The Chairman also promotes induction activities also **with a view** to **achieving the Company's sustainable success**

The **remuneration policy** is **key** to the **pursuit** of the Company's **sustainable success**

The internal control and risk management system is made up of the set of rules, procedures and organisational structures designed to effectively and efficiently identify, measure, manage and monitor the main risks, **to contribute** to the **Company's sustainable success**



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## Corporate governance system

IT1

The corporate governance system has been designed with the aim of creating value for shareholders, whilst recognising the social importance of what the Company does. Promoting collaboration and listening in order to tackle future challenges and apply a culture of responsibility are the underlying principles of the Company's approach.

&lt; 2-9

&lt; 2-12

The governance system is broadly aligned with the principles contained in the Corporate Governance Code<sup>28</sup> for listed companies, which Terna adhered to on 27 January 2021, with the related recommendations published by the CONSOB and, more generally, with the international best practices used by the Company as benchmarks.

The Annual General Meeting of shareholders held on 18 May 2020 elected Terna S.p.A.'s current Board of Directors, providing for 13 members, whose term of office will end with approval of the financial statements for the year ended 31 December 2022.

&lt; 2-10

On 18 May 2020, the Board of Directors appointed the Chief Executive Officer, assigning him the appropriate powers and defining the content, limitations and the manner in which they may be exercised. On the same date, the Board of Directors determined the members of Board Committees.

&lt; 2-13

On 14 October 2021, Terna's Board of Directors decided to increase the number of members of each Board Committee to four.

The composition of the Board of Directors changes during its term of office. Following the resignation of Yunpeng He as a Director on 11 January 2022, on 29 April 2022, the Annual General Meeting of shareholders, on the recommendation of the Board of Directors, pursuant to art. 2386 of the Italian Civil Code, elected Qinjing Shen as a Director of the Company, following his co-option by the Board of Directors on 26 January 2022.

In addition, following the resignation of the Director, Ernesto Carbone, on 23 January 2023, the current Board of Directors has 12 members.

The Board of Directors' activities are coordinated by the Chairwoman, with support provided by the Secretary.

<sup>28</sup> The new Corporate Governance Code, available on Borsa Italiana S.p.A.'s website, came into effect on 1 January 2021.

## Corporate bodies

### Board of Directors

#### Chairwoman

Valentina Bosetti

#### Chief Executive Officer

Stefano Antonio  
Donnarumma

#### Directors

Alessandra Faella  
Qinjing Shen  
Valentina Canalini  
Giuseppe Ferri  
Antonella Baldino

Fabio Corsico  
Marco Giorgino  
Gabriella Porcelli  
Paola Giannotti  
Jean-Michel Aubertin

### Board of Statutory Auditors

#### Chairman

Mario Matteo Busso

#### Standing Auditors

Vincenzo Simone  
Raffaella Fantini

#### Alternates

Massimiliano Ghizzi  
Maria Assunta Damiano  
Barbara Zanardi

### Independent auditors

Deloitte & Touche S.p.A.

### Manager responsible for financial reporting

Agostino Scornajenchi

DNF

### Composition of the Board of Directors at 22 March 2023<sup>29</sup>

	UNIT	
Men	%	50%
Women	%	50%
Under 30	%	-
Between 30 and 50	%	41.67
Over 50	%	58.33

Aspects worthy of note include:

- the high level of attendance of Directors at Board meetings and Board Committee meetings;
- the presence of sustainability goals in the remuneration packages of the Chief Executive Officer and senior management;
- the close attention paid to ESG matters during both meetings of the Audit, Risk, Corporate Governance and Sustainability Committee and the Remuneration Committee and during specific induction sessions for the Board of Directors as a whole.

Further information on Terna's corporate governance may be found in the "Report on Corporate Governance and Ownership Structures", approved by the Board of Directors on 22 March 2023 and available in the "System of Corporate Governance – Governance Report" section of Terna's website, and in the "Remuneration Report", also available on Terna's website.

For more information on diversity in governance bodies scan this QR code.



<sup>29</sup> Further details of Terna S.p.A.'s corporate governance is provided in the "Report on Corporate Governance and Ownership Structures" published on the website ([www.terna.it](http://www.terna.it)).

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## Aspects of the Board of Directors' activities

### *Engagement policy*

One of the most significant innovations in the new Corporate Governance Code is the recommendation to the Board of Directors to promote, in the most appropriate forms, dialogue with shareholders and other stakeholders relevant to the Company with a view to raising the level of transparency and fostering the creation of long-term value. In implementation of this recommendation, the Company's Board of Directors, at the proposal of the Chairwoman, Valentina Bosetti, acting in agreement with the Chief Executive Officer, adopted the "Policy for engagement with the generality of shareholders and other stakeholders of Terna S.p.A."

The Policy: (i) identifies and describes the ordinary channels of direct and continuous communication and information between the Company, shareholders and other stakeholders; (ii) promotes, among the current ordinary forms of engagement, a report to the Board of Directors on the main communication and information activities with significant shareholders and Institutional Investors; (iii) introduces and regulates so-called Shareholder-Director Engagement, i.e. the dialogue that provides for direct involvement between Directors and stakeholders in the creation of such policy.

&lt; 2-12

### *Independence criteria*

Since 2007, the Company has had a specific internal procedure that defines the criteria for assessing the independence of its non-executive members and for ascertaining the requirements of the Articles of Association and the Corporate Governance Code then in force. In implementation of the new Corporate Governance Code, the Company has updated the "Application criteria and procedure for assessing independence, pursuant to art. 2 of the Corporate Governance Code". The document identifies the prerequisites, objectives and conditions that may compromise independence; it devotes an article to the figure of the Chair of the Board of Directors, if qualified as independent, and an article to the Board of Statutory Auditors, due to the extension of the independence criteria also to the members of the oversight body. It also describes the methods for assessing independence and the relevant procedure. An ad hoc article is devoted to the meetings of directors who qualify as independent. The heart of the procedure is the description of the criteria adopted by the Company to assess the parameter of "significance" (pursuant to Recommendation no. 7, letters c) and d), of the Code), the recurrence of which, in the presence of commercial, financial or professional relationships, as well as additional remuneration, may compromise the independence of the directors or statutory auditors involved in such situations.

## Board evaluation

In keeping with the past and in compliance with the new Corporate Governance Code, Terna's Board of Directors, with the support of the Nominations Committee, carries out an annual self-assessment of the size, composition and actual functioning of the Board and of Board committees, with reference to the activities performed since their election, also called a Board Review. To this end, Terna used, for the third year in a row, Mercer Italia S.r.l., an independent external consultant. After the first Board Review, which was designed to undertake an in-depth review of operating processes and concluded with a proposed action plan, the Board of Directors focused the second Board Review, covering 2021, on an analysis of the dynamics of the Board and the individual contribution of Directors in a Peer-to-Peer Review. More specifically, the Board Review for 2021 analysed: (i) the contribution of each Director to the work of the Board as a whole, in a constructive and proactive spirit by the other Directors; (ii) Board dynamics and the way the Board of Directors works. Finally, the Board Review for 2022, the third and final year of the current Board's term in office, aimed to assess the progress effectively made over the three years with regard to the way the Board operates, including through a Peer Review. The process also aimed to gather suggestions from Directors regarding the qualitative and quantitative composition of the incoming Board of Directors.

## Gender diversity

The Corporate Governance Code highlights the issue of gender balance, recommending in particular that companies adopt measures to promote equal treatment and opportunities within the entire corporate organisation, monitoring their concrete implementation (Art. 2, Recommendation 8). In 2021, the Company adopted ad hoc guidelines called the "Diversity & Inclusion Policy" with the aim of formalising Terna's commitment to enhancing and protecting diversity, as well as to preventing and sanctioning any discrimination and harassment based on gender, age, sexual orientation, nationality, disability, political opinions, religious belief and any other personal characteristic. The document was presented as part of the sustainability induction on 16 June 2021. Partly as a result of the adoption of these guidelines, Terna was included in Standard & Poor's Gender Equality & Inclusion Index, the new international index that measures the performance of listed companies in relation to gender equality and inclusion issues.

## Sustainability policy

With the Sustainability Policy, Terna is committed to adopting and incorporating sustainability objectives into its strategy, in line with the topics found to be relevant in the Materiality Analysis and selected from the Sustainability Goals, supporting the management and mitigation of ESG risks. The objectives are: (i) identification of the methods used in defining the Group's sustainability strategies; (ii) increasing awareness of key topics and the expected results; (iii) dissemination of the culture of sustainability inside and outside the company. By adopting the Policy, Terna has made a formal and public commitment to adopting sustainable conduct and actions in relation to the main reference frameworks (the SDGs and Italy's National Integrated Energy and Climate Plan) and to ESG topics considered important for the Group. Furthermore, the commitments outlined in the Policy support management and mitigation of the ESG risks to which the Terna Group is exposed.

## Board committees

### *Audit, Risk, Corporate Governance and Sustainability Committee*

This Committee has the task of performing research and analyses to advise the Board in its assessments and decisions relating to the "Internal Control System" and the regular monitoring of the adequacy of such system. The Committee is also responsible for studying specific aspects relating to the identification of the main business risks (for example, operational risk, financial risk, market risk, and compliance risk, in addition to accounting compliance risks), reporting periodically to the Board on the suitability of the system and the activities performed.

- Paola Giannotti (Chairwoman, independent)
- Giuseppe Ferri (independent)
- Marco Giorgino (independent)
- Alessandra Faella (independent)<sup>30</sup>

<sup>30</sup> Nominated on 14 October 2021.

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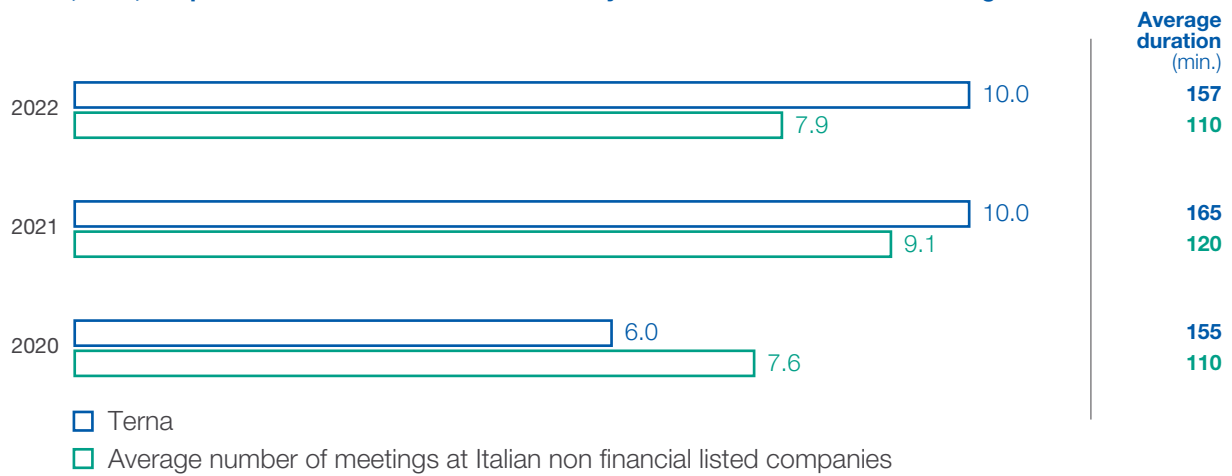
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**Audit, Risk, Corporate Governance and Sustainability Committee - Number of meetings**

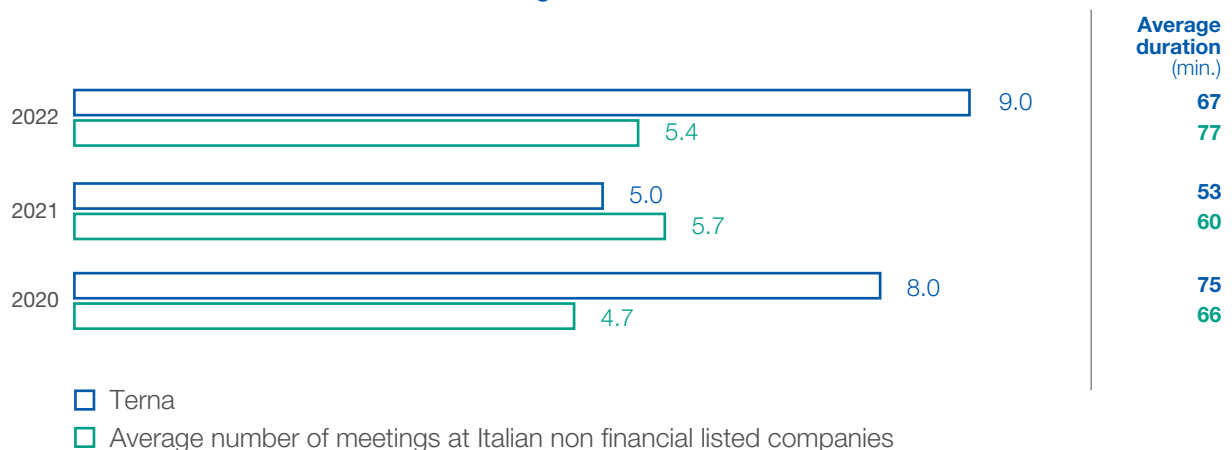


*Remuneration Committee*

This Committee's remit covers the remuneration policy for Directors and Key Management Personnel, recommendations and opinions on the remuneration of executive Directors and other Directors with delegated powers, setting performance objectives linked to the variable part of this remuneration, monitoring application of the decisions taken by the Board, and assessing the effective achievement of performance objectives.

- Fabio Corsico (Chairman, independent)
- Gabriella Porcelli (independent)
- Alessandra Faella (independent)
- Jean-Michel Aubertin<sup>36</sup> (independent)

**Remuneration Committee - Number of meetings**



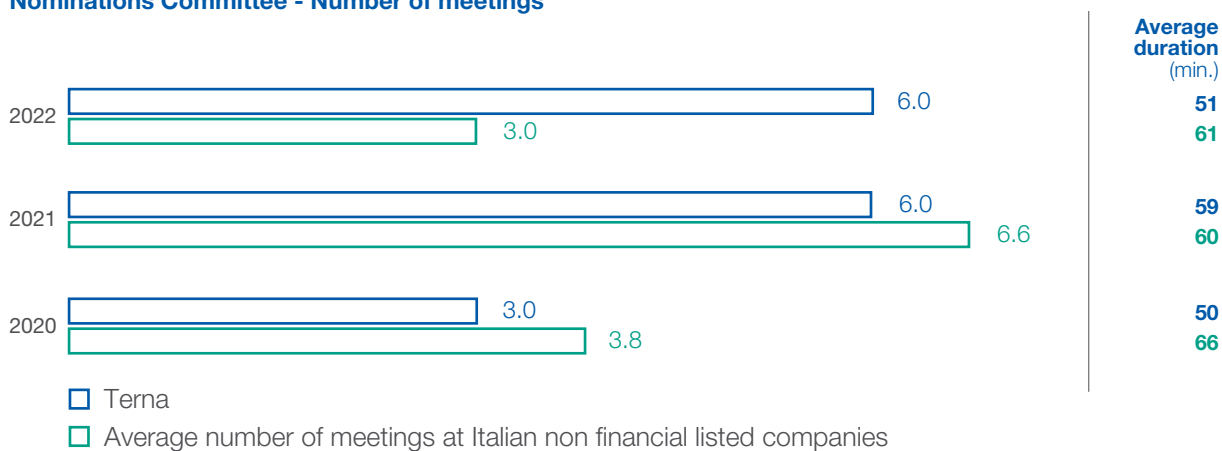
<sup>31</sup> Nominated on 14 October 2021.

### Nominations Committee

This Committee supports the Board of Directors by conducting reviews, making recommendations and providing advice in relation to assessments and decisions regarding the size and composition of the Board.

- Gabriella Porcelli (Chairwoman, independent)
- Fabio Corsico (independent)
- Jean-Michel Aubertin (independent)
- Ernesto Carbone<sup>32</sup> (independent)

#### Nominations Committee - Number of meetings



### Related Party Transactions Committee

This Committee has the role of conducting reviews, making recommendations and providing advice in relation to assessment and approval of the above related party transactions, covering the approval of both transactions of greater significance and those of lesser significance, as indicated in Terna’s procedure. The Committee’s role also extends to recommendations for amendments to the procedure adopted by Terna.

- Marco Giorgino (Chairman, independent)
- Ernesto Carbone<sup>32</sup> (independente)
- Paola Giannotti (independent)
- Giuseppe Ferri<sup>33</sup> (independente)

<sup>32</sup> The Director, Ernesto Carbone, resigned from his position on 23 January 2023, following his appointment, by Parliament in joint session as a member of the *Consiglio Superiore della Magistratura*. From that date, the Committee has had 3 members.

<sup>33</sup> Nominated on 14 October 2021.

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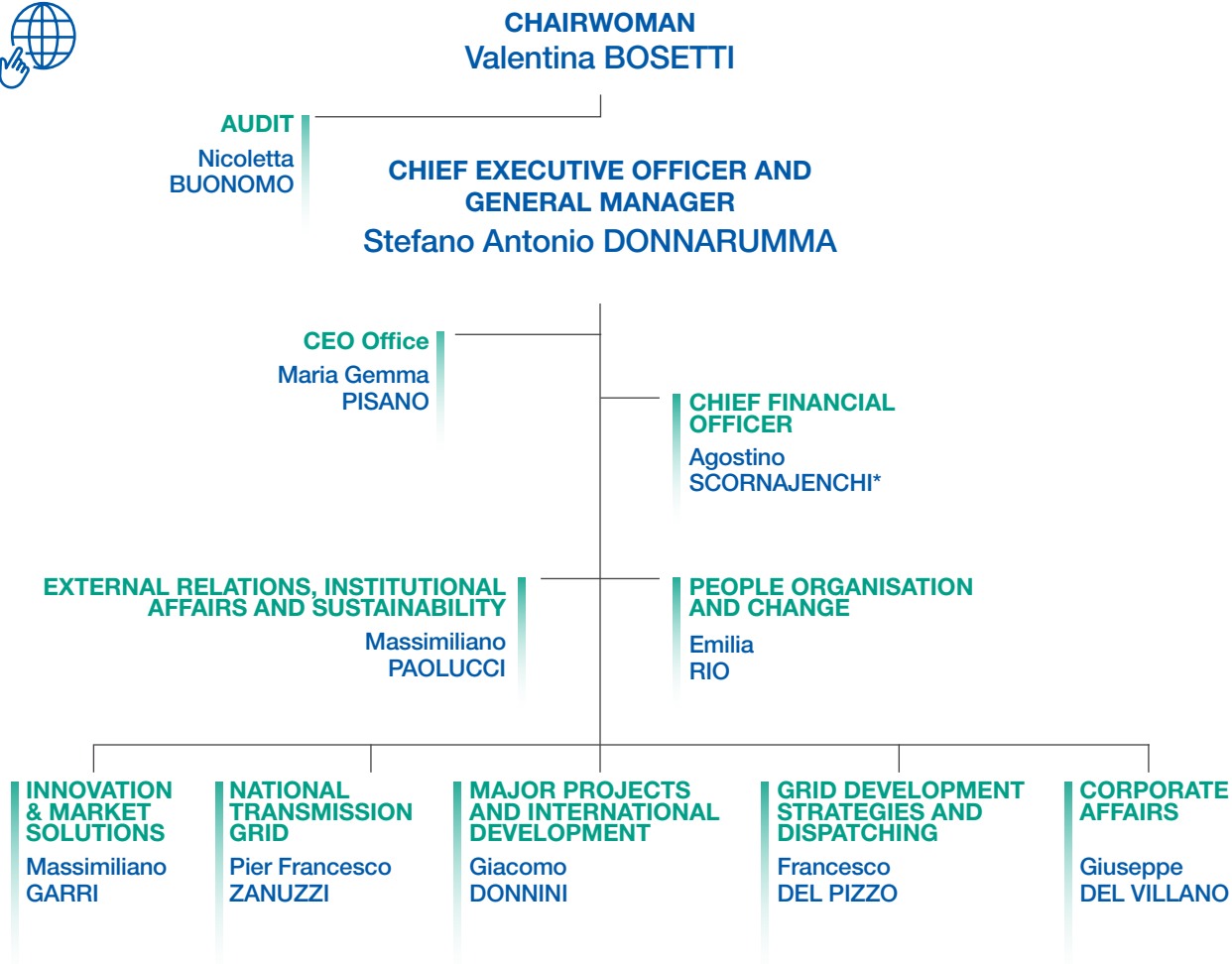
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The structure of Terna's management team at 22 March 2023 is as follows:



\* Manager responsible for financial reporting.



# The remuneration system

In line with Terna's governance framework, the Board of Directors is responsible for setting the objectives and approving the results of the incentive schemes to which the variable remuneration of the Chief Executive Officer and general Manager is linked, and for defining the general criteria for the remuneration of Key Management Personnel.

In keeping with the recommendations in the Corporate Governance Code, relating to matters concerning remuneration, the Board of Directors is supported by a Remuneration Committee consisting of independent, non-executive Directors tasked with providing related recommendations and advice.

## Performance Share Plan 2022-2026

The Board of Directors approved the Terms and Conditions of the Performance Share Plan 2022-2026 on 15 June 2022, in implementation of the terms established by the Annual general Meeting of shareholders held on 29 April 2022.

The LTI Plan 2022-2026 envisages the grant of the right to receive free of charge a given number of Terna S.p.A.'s ordinary shares at the end of a vesting period and on the achievement of the performance objectives to which the Plan is linked.

Further details are provided in the Information Circular on the Performance Share Plan 2022-2026, published on the Company's website ([www.terna.it](http://www.terna.it)).

The share buyback programme to service the Plan was completed on 13 June 2022 at a total cost of approximately €10 million.





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## Remuneration policy for 2023

The Terna Group has designed its Remuneration Policy in line with stakeholders' expectations and market best practices and in accordance with the principles and criteria set out in the Corporate Governance Code. The Group also ensures the maximum alignment between shareholders and management, in terms of both value creation and the risk profile established.

The Board of Directors ensures that the Chief Executive Officer and General Manager is the beneficiary of a policy that is in line with the principles contained in the Corporate Governance Code. This means ensuring that a significant part of remuneration is linked to the achievement of specific performance objectives, including those of a non-financial nature (e.g., ESG indicators). In the pay mix, care is also taken to ensure that long-term incentives are given more weight than those of a short-term nature.

The same principles underpin the policy for Key Management Personnel.

To support achievement of the Company's strategic objectives and its performance, Terna has adopted variable incentives schemes diversified on the basis of the different roles within the Company:

- an MBO (Management By Objectives) scheme for the Company's management, linking the value of individual bonuses:
  - to the degree to which quantitative targets have been met, at both Company and individual level, with a portion linked to Terna's environmental and social commitments (e.g., workplace safety indicators);
  - to a qualitative assessment of performance, based on management behaviours.
- long-term incentives (LTIs) linked to multi-year business objectives, including sustainability, for managers in the most important roles with regard to achievement of strategic results.

Remuneration packages also include welfare provision and benefits designed to promote solid ongoing improvements in the work-life balance of Terna's people, resulting in pay and welfare packages that are well above average for Italian companies.

Full details of the Terna Group's remuneration policy are provided in the Report on the Remuneration Policy and on Remuneration Paid, approved by the Board of Directors – on the recommendation of the Remuneration Committee - on 22 March 2023, and to be published by Terna in compliance with the requirements of art. 123-ter of the CLF, as amended.

# Risk governance

As recommended in Borsa Italiana's Corporate Governance Code<sup>34</sup> and by national and international best practices<sup>35</sup>, the Group has adopted a specific **Internal Audit and Risk Management System (IARMS)**. This consists of the culture, capabilities, rules, procedures and internal practices and organisational structures with the objective of defining an accountability system for identifying, measuring, managing, mitigating and controlling the main risk exposures at Group level. The aim of the System is to contribute to the Group's sustainable success, retaining a high degree of stakeholder trust in the Group's governance and controls.

The System provides a management tool designed to ensure that the way the business is run is consistent with the Company's business objectives. It puts risk management at the heart of the value chain, starting from key considerations such as the mission, vision, values and operating environment. These are embedded in the process of defining and developing strategy and performance to support decision-making processes by making explicit reference to risks and uncertainties and through informed responses. The System involves implementation of a **Risk Management System**, which is also aligned with the recommendations in the Corporate Governance Code for Listed Companies and international best practices.

To support the Board of Directors' analysis and decision-making regarding the Internal Audit and Risk Management System, risk management relies on the contribution from a specific Board Committee, consisting of independent Directors – the **Audit, Risk, Corporate Governance and Sustainability Committee** – that engages periodically with the departments within the Company most directly involved in these processes.

The Committee also has a direct relationship with the **Chief Risk Officer (CRO)**, whose appointment is approved by the Board of Directors on the recommendation of the Chief Executive Officer, subject to a prior opinion from the Committee. The CRO is tasked with supporting senior management in the effective implementation and management of the risk management process at Group level, and ensuring effective coordination of the actors involved in control activities. The CRO reports to the Chief Executive Officer and the Committee on the outcomes of risk management activities. The CRO receives operational support from the "Enterprise Risk Management" unit, which reports directly to the CRO and has the role of coordinating all aspects of the Risk Governance framework described below.

Under the Internal Audit and Risk Management System, the Audit department has the task of verifying that the IARMS is operating smoothly. Audit activities extend to all business processes (including risk management), with particular attention paid to the most important processes due to their impact on the Company's value, the degree of risk they pose in respect of achievement of the Company's objectives, or their influence on aspects of broad interest to the Company.

In operational terms, risk management takes place throughout the Company, based on a structured, systemic approach. It involves a **Risk Governance Framework ("Framework")** setting out the roles and responsibilities of the various actors involved in the Risk Management System, embedding the three levels of control provided for in the Corporate Governance Code within the Company's organisational structures. Each level has different objectives and specific associated responsibilities:

<sup>34</sup> See Art. 1 – Role of the board of directors – Recommendations – c) defines the nature and level of risk compatible with the company's strategic objectives, including all the elements that can be relevant for the company's sustainable success; d) defines the corporate governance system of the company and the structure of the group it heads, and assesses the adequacy of the company's organisational, administrative and accounting structure and of its strategically important subsidiaries, with particular reference to the internal control and risk management system.

<sup>35</sup> The ERM framework issued by the US body C.O.S.O., "Committee of Sponsoring Organizations of the Treadway Commission".

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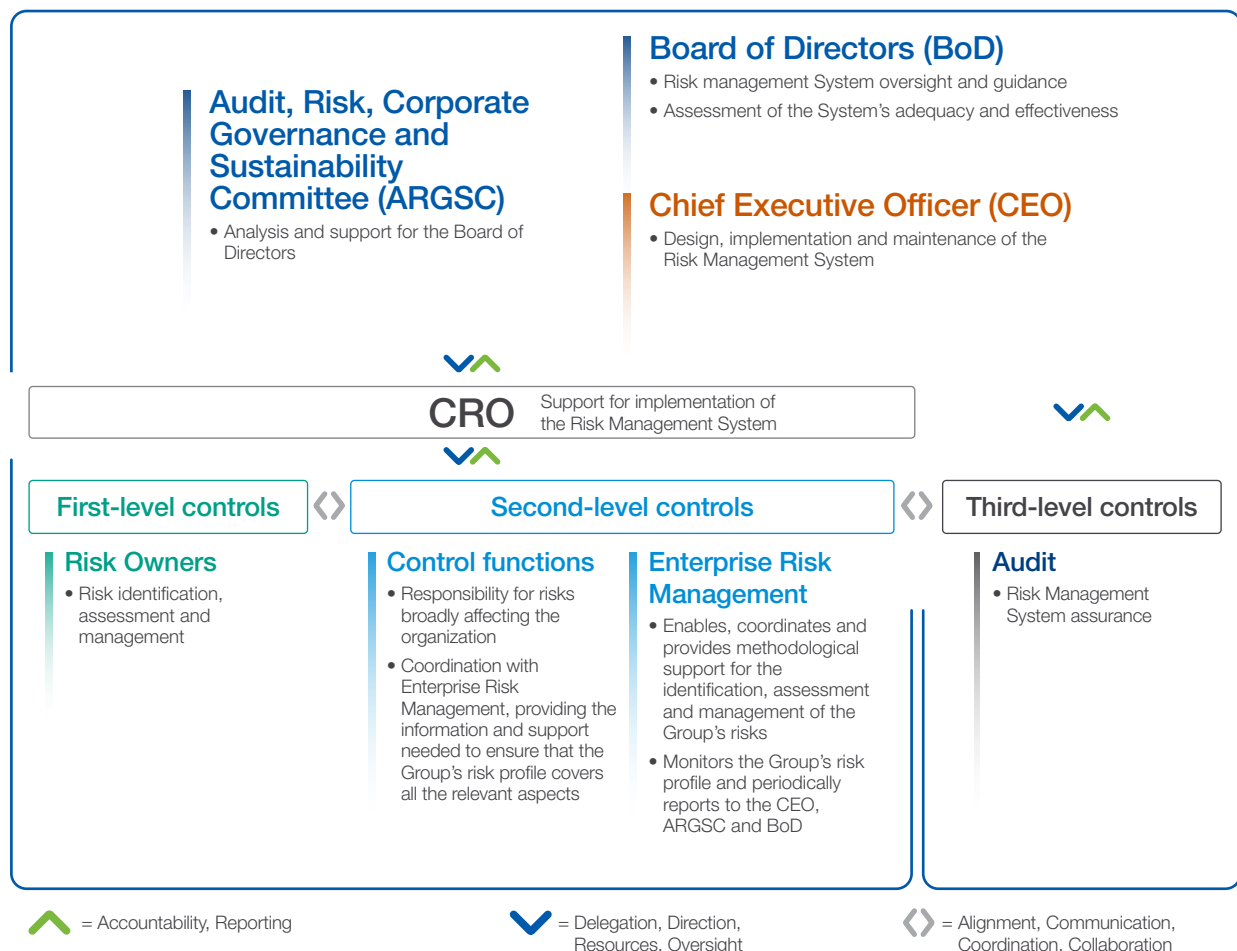
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- **First level of control:** with primary responsibility for identifying, assessing and managing the risks appertaining to the specific areas of responsibility;
- **Second level of control:** assigned to organisational structures (e.g., Health & Safety, Compliance, 262 Oversight, Environmental Protection, Fraud Management, Privacy, Cybersecurity, etc.) acting as autonomous, independent units that are separate from operational units. This level of control oversees changes in external regulations and in the related best practices and participate in the definition of governance policies and in the process of managing the risk categories for which it is responsible, at the same time supporting the implementation of first-level controls, including with regard to their design and the provision of awareness building and training;
- **Third level of control:** conducted by the Audit department, providing an independent assessment of the design and functionality of the internal control and risk management system (assurance). The entity that has this role has a high degree of organizational, hierarchical and functional independence.

Terna implements procedures and processes created to coordinate relations between and the activities of the various internal auditors tasked with carrying out controls at the different levels. **Coordination of the activities carried out by second-level auditors** is of particular importance in minimising the duplication of activities and maximising the efficiency of the Risk Management System, in keeping with the respective roles and responsibilities, and the necessary independence requirements.

The Framework is thus based on a widespread approach to risk management within the organisation, involving a range of bodies and departments across every level of the organisation, as shown below:

**Risk Governance model**

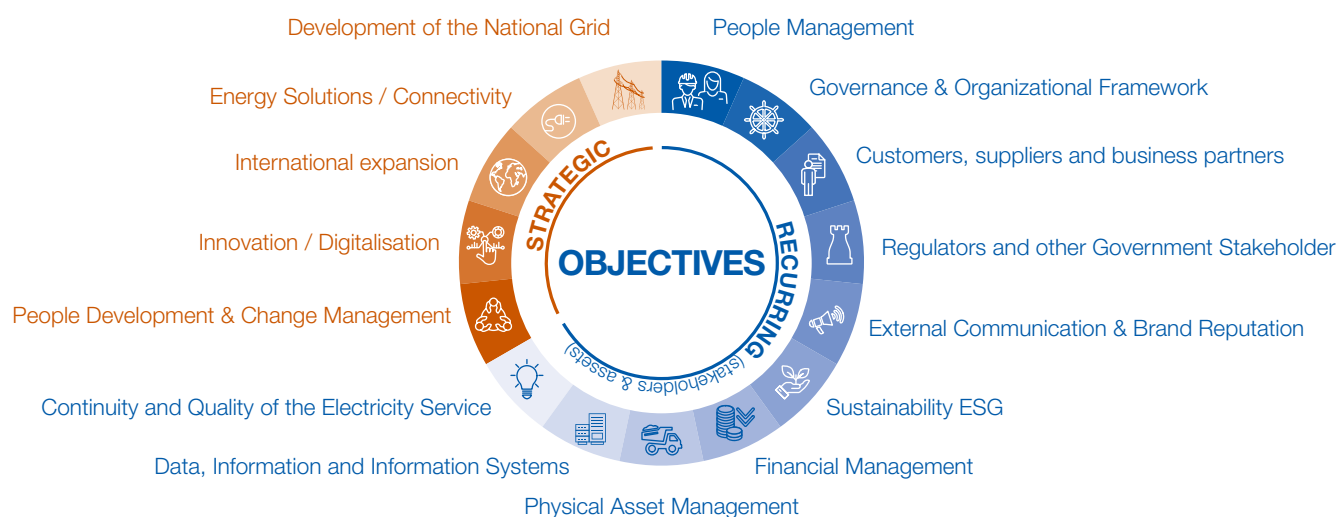


## Business objectives and risk management

The Risk Management System has the ultimate purpose of supporting decision-making processes and developing awareness across the organisation of the level of risk assumed and its compatibility with the Company's objectives. The System also aims to spread and reinforce the risk culture at all levels of the organisation.

The Terna Group has for some time used an **Enterprise Risk Management (ERM)** framework based on the standards contained in the Corporate Governance Code promoted by Borsa Italiana S.p.A.. This involves the systematic, iterated identification, assessment, treatment and monitoring of risk, highlighting, where present, the potential effects with regard to ESG aspects.

The main role in enabling management to **identify** risk events is played by the set of **corporate objectives**, divided into **Strategic** (linked to the Industrial Plan) and **Recurring** (continuous risks linked to the activities carried out under concession, the corporate mission and the codes of conduct adopted).



Each risk event is **assessed** on the basis of the combination between Impact (divided into four types: financial, reputational, operational and HSE-Sustainability) and Probability of occurrence over the life of the Plan. The assessment also takes into account the Level of Maturity of existing risk management systems. Based on the outcomes, risk **treatment** priorities and appropriate responses are chosen through the selection of mitigation or corrective actions.

A business's risk profile is not static, but dynamic and may alter due to changes in the external environment and/or as a result of internal organisational and business decisions. Developments in the Group's risk profile are **monitored**, as is the state of progress in implementing chosen mitigation initiatives.

The above phases of the risk management process are regularly repeated (at least once a year).

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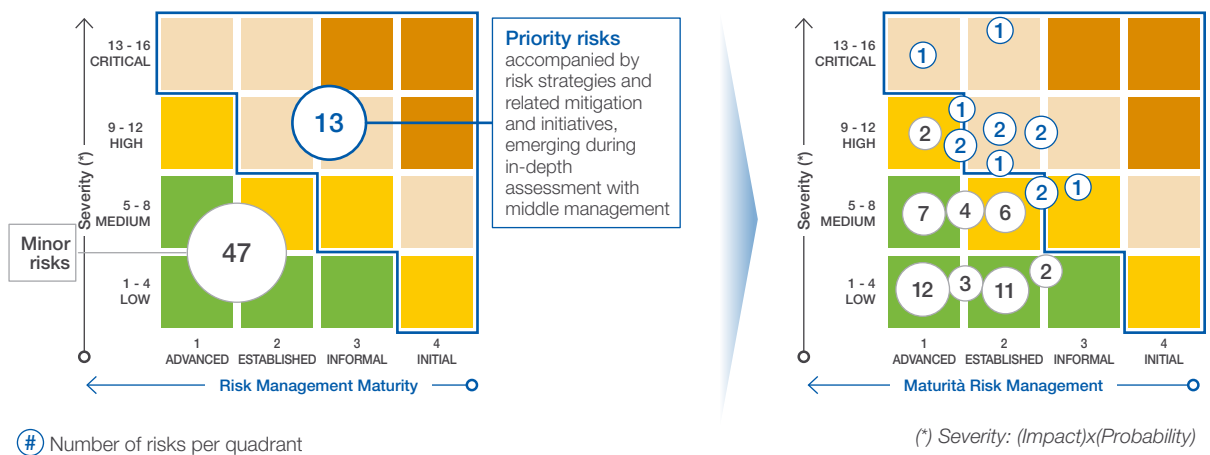
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Risk events are generally classified in the following categories:

<p><b>External / market risk</b></p> <p>Risk events connected with the competitive and regulatory environment, economic cycles, the economic and financial conditions and performance of the markets in which the Group operates, which could influence the Company's ability to achieve its strategic objectives</p>	<p><b>Compliance risk</b></p> <p>Risk events connected with breaches of the law, statutory requirements, regulations and other requirements (internal and external), with a potential impact in terms of fines, financial loss and/or reputational damage</p>
<p><b>Operational risk</b></p> <p>Risk events connected with malfunctioning processes, procedures, information systems or human resources, resulting in losses / damage to the Company</p>	<p><b>Counterparty risk</b></p> <p>Risk events generated by counterparties (financial, commercial, industrial, government) with which the Group operates or engages, including the inability to meet the obligations assumed or the possibility that the conduct of such parties may damage Terna's reputation and/or result in losses or other damages</p>
<p><b>Legal / contractual risk</b></p> <p>Risk events connected with inadequate legal documents / contracts or other situations that may expose the Company to litigation, financial loss and/or reputational damage</p>	<p><b>Natural / human-induced events</b></p> <p>Risk events resulting from natural phenomena (e.g. earthquakes, floods, bad weather, fires, epidemics / pandemics, etc.) and human-induced events (e.g., theft, sabotage, terrorist attacks, etc.)</p>

The updated Risk Assessment, carried out in 2022 in accordance with the above framework, involved Terna's middle and senior management. The Risk Assessment resulted in the identification of **60 risk events** that were assessed in terms of impact, probability of occurrence over the life of the plan and the level of maturity of existing risk management systems. This enabled the Company to closely examine the systems and take further steps to mitigate the identified risks.



Based on this assessment, the following table shows the **13 priority risks** identified, the associated objectives and their classification based on the above risk categories, as well as the main actions taken to mitigate and control such risks.

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Principal risks for the Company, how they are managed and the related opportunities

OBJECTIVE	RISK EVENT	CATEGORY	MANAGEMENT ACTION	OPPORTUNITIES
CONTINUITY AND QUALITY OF SERVICE	<b>1. Cyberattacks</b>			
	The risk connected with a cyberattack, using for example ransomware, that could cause: <ul style="list-style-type: none"> <li>• Loss of visibility of infrastructure;</li> <li>• Temporary shutdown of systems;</li> <li>• Data loss and/or additional costs for recovery</li> </ul>	Natural / Human-induced events ESG	Internet and perimeter security systems and the segregation of IT and OT networks; Consolidated IT monitoring processes (CERT - Computer Emergency Response Team; Awareness campaigns; Crash Programmes for system and grid equipment vulnerabilities; Progressive adoption of secure communication standards.	<b>More rapid increase</b> in the level of grid security, partly through the progressive consolidation of awareness of the importance of cyber threats, resulting in the switch from response strategies to a proactive approach.
	The risk connected with potential insufficient availability of primary energy (e.g., gas), primarily due to the current geopolitical scenario (the war between Russia and Ukraine).	External / Market risk ESG	Participation in the "Technical Committee for the gas system emergency and monitoring" at the Ministry of the Environment and Energy Security; Process of assessing the adequacy of the national and European system.	<b>Strengthened overseas interconnections and an incentive</b> to boost the use of renewable energy, accelerating the country's energy transition and independence.
	<b>3. Separation of the European transmission grid</b>			
The risk connected with extreme weather events / incorrect setup of the structure of the grid in accordance with the n-1 security criterion <sup>36</sup> , with the potential for cascading failures triggering overloads / line failures, critical events and major incidents on the interconnected European transmission grid with separation of portions of the grid and widespread blackouts.	Operational risk ESG	Defence plans, rules and criteria (European regulations) common to all member TSOs of ENTSO-E; Technical support for the Ministry of the Environment and Energy Security for the "Italian electricity system risk management plan".	Further <b>consolidation of Terna's international standing</b> by sharing best practices (the above innovative technologies). <b>Active participation</b> in the search for shared solutions and their subsequent adoption, boosting the resilience of the NTG.	
<b>4. Increased severity of weather events</b>				
The risk connected with the intensification of extreme weather events (tornados, heavy snowfall, ice, flooding) with a resulting impact on the continuity and quality of the service provided by Terna and/or damage to equipment, machinery, infrastructure and the grid.	Natural / Human-induced events ESG	New investment to increase the resilience of the electricity grid and identify mitigation initiatives.	<b>Development of innovative technologies</b> – including through structured partnerships with start-ups (Open Innovation) – with the aim of monitoring climate events and boosting the resilience of the NTG. <b>Patentability</b> of the above solutions with related non-regulated business opportunities.	
REGULATORS AND OTHER INSTITUTIONAL STAKEHOLDERS	<b>5. Introduction of totex- and output-based regulation</b>			
	Risk connected with the introduction, in 2024, of totex- and output-based regulation, which will lead to a change in the criteria used in recognising invested capital.	External / Market risk ESG	Monitoring of regulatory developments and the rate setting process.	The new regulatory framework is an opportunity for Terna to carry out the investment projects in the Industrial Plan, delivering the ecological transition for the <b>benefit of the system</b> .
CUSTOMERS, SUPPLIERS AND BUSINESS PARTNERS	<b>6. Supply chain crises and/or changes to the strategies of key suppliers</b>			
	The risk connected with changes in the strategy of key suppliers as they shift their focus to other, more attractive sectors (e.g., renewable energy, industrial automation), geographical markets (e.g., India) and/or changes to priorities resulting in delays /additional costs in the construction of infrastructure included in the Plan, heightened by the crisis in the global supply chain following the pandemic, the conflict between Russia and Ukraine and the energy transition launched in many countries.	Counter-party risk ESG	Initiatives designed to pre-empt any such changes (the inclusion of "notices to proceed"); Increased scouting activity based on a proactive approach and expansion of the supplier base.	<b>Increase in the Group's reputational capital</b> by helping to create new jobs (Full-Time Equivalents or FTEs), made possible by the inclusion of new suppliers in the relevant register.
	<b>7. Suppliers' operational capacity reaches saturation point</b>			
The risk connected with the ability of suppliers to follow a demanding programme and/or their inability to rapidly adjust their supply chain to meet Terna's increased demands, resulting in delays to the construction of infrastructure included in the Plan.	Counter-party risk ESG	Steps to boost capacity in key supply chains; Assessment of the risks associated with each supplier; Bringing strategic supplies in-house (e.g., underground cables).	<b>Increase in the Group's reputational capital</b> through dialogue and support for suppliers most exposed to the risk of reaching capacity saturation point.	

<sup>36</sup> The n-1 security criterion is a preventive assessment carried out by the grid operator, on the basis of which the electricity system is deemed to be secure, if key grid parameters (power flows, voltages and current) remain within their respective operational limits when faced with any form of individual contingency (e.g., the loss of a power line).

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OBJECTIVE	RISK EVENT	CATEGORY	MANAGEMENT ACTION	OPPORTUNITIES
<b>8. Constraints on the development of Non-regulated Activities</b>				
<b>ENERGY SOLUTIONS / CONNECTIVITY</b>	A prudent approach to Non-regulated Activities that could lead to reduced flexibility and excessive caution and result in inefficiencies and/or the withdrawal from /loss of business opportunities.	Operational risk External / Market risk ESG	Monitoring and periodic reporting process; Ex-post assessment of performance; Management Committee (CODIR) to discuss offers and the related time to market.	<b>Development of partnerships</b> with innovative start-ups and companies to provide further non-regulated business opportunities.
	<b>9. Increase in obligations relating to sanctions imposed by the authorities (e.g., UN, EU, USA, UK)</b>			
	The difficult external environment, geopolitical tensions and international sanctions imposed by various authorities (UN, EU, USA, UK) on a number of countries could make relations with Italian and overseas counterparties more complicated. The further tightening of sanctions could lead to a reduction in counterparties with whom it is permitted to work and/or greater exposure to international sanctions.	Compliance risk Counterparty risk ESG	Due diligence on entities with which the Group has relationships and on the materials and/or services exchanged, with regard to contracts involving exports; Monitoring of the geopolitical scenario; Continuous monitoring of new legislation and focusing on sanctions.	<b>Development of relations with highly reliable third parties</b> in terms of financial performance, trade compliance and sanctions and, more generally, with a reputation for reliability.
<b>10. Timing of the issue of consents for projects with an impact on the investment programme</b>				
<b>DEVELOPMENT OF THE NATIONAL TRANSMISSION GRID</b>	The risk connected with delays or missed deadlines in obtaining the necessary consents for the construction of infrastructure, resulting in delays to the entry into service of infrastructure and an impact on the investment programme.	External /Market risk ESG	Monitoring of consents processes Ongoing dialogue with local authorities and associations; Proactive approach to authorities.	<b>Increase in social and relationship capital</b> through the external promotion of the Company's best practices (e.g., a participatory approach to planning new infrastructure projects and extracting value from "Terna incontra" initiatives).
	<b>11. Timing of completion of projects, above all major works</b>			
	The risk connected with delays or missed deadlines during construction, above all of major works. This could have an impact from various viewpoints (e.g., financial, regulatory, reputational and relating to the system).	Operational risk ESG	Centralised management of consultation, design, consents and construction processes for major works; Monitoring of the state of completion of works; Careful liquidity management; Organisational model project management, with periodic reviews and progress reports; Definition of the phases of the Project Control process and the related outputs.	Completion of the investment projects in the Industrial Plan is in line with the aim of delivering the ecological transition for the <b>benefit of the system</b> .
<b>12. Recruitment of people with technical/highly specialist expertise</b>				
<b>PEOPLE DEVELOPMENT &amp; CHANGE MANAGEMENT</b>	To achieve the challenging goals set by the Plan, the Group needs highly specialist expertise, primarily in STEM subjects. Labour market trends are, moreover, worsening shortages in the kind of candidate with the necessary specialist skills and expertise.	Operational risk ESG	Expansion of employer branding and recruitment channels; Entry into partnerships with the academic world (e.g., the Thyrranian Lab) to accelerate the development of technical and management expertise; New leadership model, Leading Next; Talent management process; Strengthened training plan.	<b>Increase in Terna's reputational capital</b> helping to retain talent, above all the young, creating a more attractive and engaging work environment for employees. <b>Development of partnerships with universities</b> to identify specific technical and management training programmes in response to the need for new skills and expertise.
	<b>13. Workplace injuries / incidents</b>			
<b>PEOPLE MANAGEMENT</b>	The risk connected with serious/fatal injuries and/or incidents that may have consequences for the health of employees and/or contractors and sub-contractors, as well as impeding the Company's efforts to achieve goals relating to safeguarding people's health and having a serious impact on the Group's reputation and credibility.	Operational risk ESG	National cultural transformation programme for H&S: Safety Excellence; Process for qualifying and monitoring contractors and sub-contractors; Worksite safety monitoring plan; Monitoring of regulations.	External promotion of the processes and solutions adopted (e.g., Smart DPI) by Terna and the outcomes achieved with a resulting <b>increase in Terna's reputational capital</b> as a Company that cares about workers' human rights. <b>Terna's increased attractiveness</b> to socially responsible investors (SRIs). Positive impact on financial capital of containing cost of <b>premiums paid to INAIL</b> to insure against workplace injuries and occupational diseases among workers.

## Controlling and managing ESG risks

The growing attention paid by businesses and the markets, with ever greater interest in adopting sustainable finance solutions, to issues and goals relating to sustainability is leading to a closer focus on ESG aspects and the related risks. This above all applies to risks of an environmental nature (climate change) and those relating to social issues (the erosion of social cohesion), both with potential negative effects in terms of reputational capital.

The inclusion of ESG factors within the scope of the risks to oversee, manage and monitor has significantly expanded the context of companies' corporate governance. This has, moreover, been highlighted since 2020 in the "Corporate Governance Code"<sup>37</sup> drawn up by Borsa Italiana, which invites directors and management to adopt strategies focusing on sustainability to deliver sustainable success for their organisations.

The obligation to produce a non-financial statement (NFS), introduced by Legislative Decree 254/2016, was the first step towards reporting on the main risks generated and incurred with regard to environmental, social, workforce-related, human rights and anticorruption issues. Approval, in November 2022, of the Corporate Sustainability Reporting Directive (CSRD) marks a further strengthening of the oversight of such issues in terms of the integration of ESG risks in risk management processes and their accurate reporting.

Terna has for some time now embedded the consideration of ESG risks within the Group's strategy and business model, including them in the key risk management tools adopted and described on page 82.

The table summarises how the first five topics – and the related risks – resulting from the materiality analysis are linked to the ERM<sup>38</sup> framework. Finally, a description of the way in which each risk is mitigated is provided.

The full table with all the topics shown in the materiality matrix on page 56 is be consulted using this QR Code.



### Materiality: risks and management tools

ESG FACTOR	AFFECTED CAPITALS	MATERIAL TOPIC	RELATED ERM FRAMEWORK OBJECTIVE	PRINCIPAL RISKS	MINOR RISKS	OVERSIGHT AND MANAGEMENT	REFERENCES
E	<ul style="list-style-type: none"> <li>Infrastructure</li> <li>Financial</li> </ul>	IF2 Quality, security and continuity of the electricity service	Quality, security and continuity of the electricity service	#1 Cyberattacks	<ul style="list-style-type: none"> <li>Inability of the electricity system to meet 2025 target for the phase-out of coal.</li> <li>Deterioration in service quality due to inadequate mix of production.</li> <li>Loss of visibility and control of the grid, resulting in a deterioration in the service.</li> </ul>	<ul style="list-style-type: none"> <li>Investment in the NTG, in line with the Development Plan.</li> <li>Continuous monitoring of quality and continuity of service indicators (e.g., RENS; ASA).</li> <li>Quality Management System (ISO 9001).</li> <li>Asset Management System (ISO 55001).</li> <li>Compliance Management System (ISO 37301).</li> </ul>	109 119-120 195 194
				#2 Insufficient availability of primary energy			
				#3 Separation of the European transmission grid			
				#4 Increased severity of weather events			
E	<ul style="list-style-type: none"> <li>Intellectual</li> <li>Infrastructure</li> <li>Social and relationship</li> </ul>	IF1 Delivering the energy transition	Development of the National Transmission Grid	#10 Timing of the issue of consents for projects with an impact on the investment programme	<ul style="list-style-type: none"> <li>Unfavourable developments in the regulatory and political environment (e.g., extension of EIAs).</li> <li>Delayed implementation of post-consent environmental requirements, specialist consulting and environmental inspections of worksites.</li> <li>Delays / inefficiencies in the completion of projects due to delays in the digitalisation of the design process and in the use of innovative tools.</li> <li>Reduced operational capacity and delays due to potential prolongation of the Covid emergency (Covid restrictions, quarantines).</li> </ul>	<ul style="list-style-type: none"> <li>Investment in the NTG, in line with the Development Plan.</li> <li>Development of strategic projects (e.g., Tyrrhenian Link; SA.CO.I.3; Adriatic Link; GR.ITA2; TUN.ITA).</li> <li>Quality Management System (ISO 9001).</li> <li>Environmental Management System (ISO 14001).</li> <li>Compliance Management System (ISO 37301).</li> <li>Asset Management System (ISO 55001).</li> </ul>	109 114-118 195 194
				#11 Timing of completion of projects, above all major works			

<sup>37</sup> Art. 6 – Internal control and risk management system – Principles - XVIII. The internal control and risk management system consists of a set of rules, procedures and organisational structures for an effective and efficient identification, measurement, management and monitoring of the main risks, aimed at contributing to the sustainable success of the company.

<sup>38</sup> The materiality analysis is conducted annually. Further details are provided on page 56.



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ESG FACTOR	AFFECTED CAPITALS	MATERIAL TOPIC	RELATED ERM FRAMEWORK OBJECTIVE	PRINCIPAL RISKS	MINOR RISKS	OVERSIGHT AND MANAGEMENT	REFERENCES
S	• Human	UM1 Workplace health and safety and workers' rights	People Management	#13 Workplace injuries / incidents	N/A	<ul style="list-style-type: none"> <li>Prevention, management and monitoring processes applied to Workplace Systems.</li> <li>Structured process for qualifying and monitoring contractors and sub-contractors.</li> <li>Quality Management System (ISO 9001).</li> <li>Occupational Health and Safety Management System (ISO 45001).</li> <li>Infection Prevention and Control Management System (Biosafety Trust Certification).</li> <li>Compliance Management System (ISO 37301).</li> </ul>	200-202 195 194; 218 194
		IF3 Grid resilience	Development of the National Transmission Grid Management of physical assets	<p>#10 Timing of the issue of consents for projects with an impact on the investment programme</p> <p>#11 Timing of completion of projects, above all major works</p>	<ul style="list-style-type: none"> <li>Slow identification of new secondary legislation (regulatory/technical oversight).</li> <li>Failures / faults affecting components of grid infrastructure (e.g., transformers, conductors).</li> <li>Terrorist attacks.</li> <li>Damage / vandalism / theft of infrastructure and equipment by third parties.</li> </ul>	<ul style="list-style-type: none"> <li>Structured plans for managing and maintaining infrastructure, machinery and equipment ("Asset Management Plan", "Resilience 2.0"; "Winter Plan")</li> <li>Emergency Management Procedure in collaboration with external bodies (e.g., the police).</li> <li>Quality Management System (ISO 9001).</li> <li>Environmental Management System (ISO 14001).</li> <li>Asset Management System (ISO 55001).</li> </ul>	106; 108 234 195
E	• Intellectual • Natural	NT1 Environmental impact of electricity infrastructure on local areas	ESG sustainability	=	<ul style="list-style-type: none"> <li>Failure to achieve carbon-reduction targets (SBT) due to delayed grid development.</li> <li>Environmental accidents (greenhouse gas leaks).</li> <li>Failure of overseas suppliers to uphold human rights.</li> </ul>	<ul style="list-style-type: none"> <li>Structured procedures for optimal management of potential environmental impacts during construction work.</li> <li>Renewal of assets, replacing, where technically feasible, overhead lines with underground cables.</li> <li>Quality Management System (ISO 9001).</li> <li>Environmental Management System (ISO 14001).</li> <li>Asset Management System (ISO 55001).</li> <li>Compliance Management System (ISO 37301).</li> </ul>	279-281 106 195 194

## Disclosure on the recommendations of the Task Force on Climate-related Financial Disclosures (TCFD)

Based on the results of the materiality analysis and on Terna's mission, which is firmly focused on the goal of decarbonisation, the issue of combatting climate change runs through all the Group's main activities, given that it represents a priority objective.

The Company's management and the Board of Directors are, therefore, also involved in the principal plans relating to climate change, such as the National Transmission Grid Development Plan, the main document containing operational guidelines for full delivery of the energy transition in Italy; the Improvement Plan for Defence Systems for the Security of the National Electricity System (the Security Plan) with the attached Resilience Plan, key to enabling the NTG to withstand extreme climate events; and the updated 2021-2025 Industrial Plan which, in line with national and European guidelines, envisages the investment of €9.5 billion in the NTG to enable the energy transition and Italy to become carbon neutral.

A further reference point for the governance of climate-related issues is represented by the Group's Sustainability Policy, approved by the Board of Directors, which reiterates the Group's commitment to cutting greenhouse gas emissions.

On an operational level, in addition to the functions with specific responsibility for overseeing ESG performance (see page 86), the issue of climate change involves all the functions engaged in various aspects of the preparation of energy and climate scenarios and the above plans.

It should also be remembered that the Company's Integrated Management System includes the ISO 14001 certified Environmental Management System and the ISO 50001 certified Energy Management System, which oversee the impacts linked to the Group's energy consumption and greenhouse gas emissions.

The following table shows the references within the document that respond to the recommendations, by topic area, of the Task Force on Climate-related Financial Disclosures.

TOPIC AREA	RECOMMENDATIONS	REFERENCES
<b>Governance</b>	a) Describe the Board of Directors' oversight of climate-related risks and opportunities.	"Managing ESG performance"
	b) Describe management's role in assessing and managing climate-related risks and opportunities.	
<b>Strategy</b>	a) Describe the climate-related risks and opportunities the organization has identified over the short, medium, and long term.	"Opportunities and risks for Terna connected with climate change"
	b) Describe the impact of climate-related risks and opportunities on the organization's businesses, strategy and financial planning.	"Controlling and managing ESG risks" "2023 Development Plan"
	c) Describe the resilience of the organization's strategy, taking into consideration different climate-related scenarios, including a 2°C or lower scenario.	"2021-2025 Industrial Plan" "Innovation Strategy" "Security Plan" "Resilience Methodology 2.0 and Resilience Plan" "Renewal Plan" "The market environment" "Reference scenarios"
	a) Describe the organization's processes for identifying and assessing climate-related risks.	"Risk management"
	b) Describe the organization's processes for managing climate-related risks.	
<b>Risk management</b>	c) Describe how processes for identifying, assessing and managing climate-related risks are integrated into the organization's overall risk management.	
	a) Disclose the metrics used by the organization to assess climate-related risks and opportunities in line with its strategy and risk management process.	"Atmospheric emissions" "The EU Taxonomy"
	b) Disclose Scope 1, Scope 2, and, if appropriate, Scope 3 greenhouse gas (GHG) emissions and the related risks.	
<b>Metrics and targets</b>	c) Describe the targets used by the organization to manage climate-related risks and opportunities and performance against targets.	

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## Opportunities and risks connected with climate change

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Climate change brings a series of opportunities and risks for the Company that must be properly evaluated to ensure that they are effectively managed. To identify them, Terna applies the framework used by the **Task Force on Climate-related Financial Disclosures (TCFD)**, which divides climate-related risks into two main categories:

- **Transition risks:** transitioning to a lower-carbon economy may entail policy and legal risks, due to different regulatory requirements across different geographies, or to new impacts and/or uncertainties resulting from the policies adopted. The transition may also result in technology risk, due to uncertainties surrounding the role of emerging technologies, and market risk, linked to new dynamics, shifts in supply and demand and an increasingly complex market environment, which could expose businesses to reputational risks;
- **Physical risks:** these risks can be event driven (acute) or longer-term shifts (chronic) in climate patterns. Physical risks may have financial implications for businesses, such as direct damage to assets and indirect impacts from supply chain disruption.



The following is a description of the climate-related opportunities and risks identified by Terna.

## Opportunities

The opportunities linked to climate change constitute a cornerstone of Terna's strategy, regarding both Regulated and Non-regulated Activities in Italy and International Activities. .

### Electrification of consumption and investment



In addition to the need to integrate large numbers of RES plants, another key element in the ecological transition is the electrification of financial consumption. Electricity as an energy carrier is an enabler of this transformation, as final consumption powered by this carrier is by its nature far more efficient than any fuelled by combustion.

The energy transition will thus be based on a series of indispensable actions. The additional renewable generation capacity that will have to be immediately deployed will require **new connections** to the electricity grid. At the same time, it will be necessary to invest in the **development of the grid infrastructure** needed to transport and distribute the electricity and in **storage systems**. Finally, we will also need to deploy mature technologies, such as electric mobility, heat pumps for heating and cooling and induction cooking. **Under this scenario, Terna is engaged in driving the change: increasing the integration of renewable sources and boosting the resilience of the grid are in fact two of the main actions included in the 2021 Development Plan.** This approach is also consistent with a form of regulation that is increasingly focused on output-based solutions that will make it possible to raise Terna's returns in step with the ability to create benefits for the system.

### Macroeconomic impacts

Terna is driving the energy transition, having set aside €18 billion in its Development Plan (25% up on the 2020 Plan) for investment in enabling Italy's National Integrated Energy and Climate Plan ("PNIEC") over the next ten years. This investment aims to increase transmission capacity between the various market areas, streamline grids, and boost cross-border exchange capacity and the security and resilience of the system. The investment is expected to have a multiplier effect in terms of both GDP growth and the creation of new jobs.

The projects included in the 2021 Development Plan have been expanded in the 2023 Development Plan. The latter is based on the "**Scenario Description Document for 2022**"<sup>39</sup> ("SDD 2022"), where the scenario linked to the "**Fit-For-55**" ("FF55") policy is far more ambitious than the one described the PNIEC.

### Energy dependency

The energy transition is also a major opportunity to boost Italy's competitiveness: the country's lack of energy resources has historically meant that energy costs were higher than the European average and that the country was highly dependent on imported energy (70% in 2021). As a result of the energy transition, Italy will see a reduction in its energy dependence and could enjoy far more competitive energy costs thanks to the availability of sun and wind. The actions taken in the coming years will determine the country's strategic position in the global economic system of the future.

The energy transition and trends that encourage the development of new opportunities in Italy are of global significance, opening up new opportunities overseas. Within the scope of the non-regulated business, this situation will therefore also bring new potential linked above all to the identification and development of new energy solutions.

<sup>39</sup> The SDD 2022 is available on Terna's website at the following link:  
[https://download.terna.it/terna/Documento\\_Descrizione\\_Scenari\\_2022\\_8da74044f6ee28d.pdf](https://download.terna.it/terna/Documento_Descrizione_Scenari_2022_8da74044f6ee28d.pdf)

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## Transition risks

Terna is not currently subject to legal obligations regarding cuts in emissions and, there are therefore no specific risks with regard to the introduction of a carbon tax or rising carbon prices. An increase in reporting obligations would also not pose any problems for Terna, which has been providing full disclosure on its emissions for some time.

### Political and legal

In terms of the regulation of quality of service, the Company is already subject to a series of rewards and penalties linked to continuity, which may be affected by extreme climate events. Terna's response to this risk is the **Resilience Plan**, which describes all the initiatives and measures taken to be able to respond with growing speed and effectiveness to any adverse events.

The growing use of renewable sources and the progressive electrification expected over coming years mean that **investment in the transmission grid** is of primary importance, given the role that the grid will play in helping to achieve decarbonisation targets. There are no specific risks linked to the replacement of technology.

### Technological

Given the new complexities to be dealt with, the drive for constant innovation remains a priority, with continued attention to the most promising technology streams on which to focus both investment and R&D efforts. Terna identifies these technology streams in its **Innovation Plan**.

In the first nine months of 2022, with the war in Ukraine and the resulting cuts to the quantity of gas supplied by Russia, the price of gas continued the upward trend already seen in 2021, reaching record highs and exceeding the threshold of €300 per MWh (the Virtual Exchange Point) in August.

### Market

Thanks to favourable weather in late 2022, resulting in above-average temperatures for the season, the price of gas declined, although it remained at levels that are anything but low (an average of €116 per MWh in December). The price of CO<sub>2</sub> also rose throughout 2022, remaining above €80 per tonne almost throughout the period (the average figure for 2021 was instead €53 per tonne) and reaching a peak of over €100 per tonne in August 2022.

As a result, the Single National Price (SNP) rose to an annual average of €304 per MWh in 2022, with a major impact on the costs incurred by final electricity customers. In fact, from 2021, the price of domestic consumers served by the enhanced protection market more than tripled, rising from approximately €200 per MWh in the first quarter of 2021 to around €660 per MWh in the fourth quarter of 2022, despite action taken by the Government to cut and then remove – from the fourth quarter of 2021 – general electricity system costs.

Although high energy prices do not fall within the scope of the risks to which Terna is effectively exposed, this situation, if prolonged, could result in serious damage to the Italian economy. The main solution to rising prices and energy dependence, with significant benefits for the country's economy, is to accelerate the energy transition. To achieve the policy objectives set for 2030, as described in the EU's Fit-For-55 package, it will be necessary to install approximately 70 GW of new non-programmable renewable energy capacity. These new non-programmable renewable energy plants will be able to produce around 120-126 TWh of electricity, which will replace an equivalent quantity of energy produced by gas-fuelled thermoelectric plants. To ensure that these plants are built, it is essential to speed up consents processes and devise auction mechanisms with ambitious quotas, that will effectively enable achievement of the European targets. Terna will play its part as the operator of the transmission grid in integrating such plants into the grid and encouraging their correct location and a suitable technology mix.

The growing complexity of the electricity system and the increased frequency and seriousness of adverse climatic events requires constant monitoring of the system's adequacy and resilience. The occurrence of malfunctions, potentially of a widespread nature, could increase Terna's reputational exposure to public authorities and stakeholders in general.

### Reputational

## 201-2> | Physical risks

Climate change and rising temperatures can impact quality of service and grid infrastructure. Increasing the **resilience of the Italian electricity system** is one of the major challenges posed by the energy transition. The increasingly serious and devastating impacts on electricity infrastructure provoked by extreme weather events, above all heavy snowfall and strong winds, make it necessary to draw up a specific plan to boost the resilience of the electricity system and the high-voltage grid.

Terna has developed, with the support of RSE (Ricerca sul Sistema Energetico), a probabilistic, predictive Resilience Methodology capable of assessing the most effective and efficient projects for boosting the resilience of the national transmission grid. The new approach to evaluating the benefit of increased resilience is based on calculating the expected likelihood of faults caused by a range of weather events over a certain period of time to take into account the effects of climate change, and on an assessment of their impact on the electricity system in terms of power cuts, including the potential for cascading failures on the grid. The new methodology was applied in drawing up the plan to boost the resilience of the national transmission grid (the **2020 Resilience Plan**).

## Conflict in Ukraine: risk assessment and prevention for the Terna Group

As described above with regard to the macroeconomic environment, from the outset of the crisis involving Russia and Ukraine, the Terna Group took immediate steps to monitor the potential impact/risks. This focused on the ongoing geopolitical developments and, in particular, the related legislation, above all with regard to the international sanctions introduced following the outbreak of war between the two countries.

For this purpose, the Group moved quickly to set up specific taskforces to monitor any new sanctions and to strengthen due diligence procedures and ordinary controls. The main potential areas of concern to be monitored continuously by the taskforces are: **cyber security, economic and financial, the electricity system** and the impact on **procurement**.

Since the start of the conflict between Russia and Ukraine, there has been an increase in **cyberattacks** on Italian government and corporate websites. These shows of force have not led to major upheaval or data breaches, with disruption being short-term in nature.

Thanks to the continuous sharing of information with government bodies and priority access to information from Cyber Threat Intelligence providers, a series of **rules and digital signatures** have been implemented as part of Terna's cyber protection systems **with the aim of preventing any malicious acts**. Checks confirmed that **the Group does not use any cybersecurity products or services linked to the Russian Federation**. Work has also begun on further raising the level of cybersecurity for the data flows required by Terna and Swissgrid, as members of ENTSO-E, to monitor the defence systems used by the Ukrainian national grid.

On the **economic and financial** front, the current crisis has led to significant movements in a number of macroeconomic variables. The rise in inflation, which began at the end of 2021 due to the impact of the Covid-19 pandemic on the supply of goods and services, has further accelerated since the outbreak of war in Ukraine, primarily as a result of rising energy prices. Under Terna's existing regulatory framework, which indexes allowed operating costs and the RAB (the latter revalued on the basis of the deflator applied to investment), it is not expected that there will be a negative economic impact due to price pressures, even if the above indexation of allowed costs will be reflected in the accounts with a time lag of approximately one year.

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The increase in inflation has, on the other hand, led central banks and, specifically, the European Central Bank to accelerate their plans to tighten monetary policy, with the aim of mitigating the effect of rising prices. This has resulted in a sudden increase in interest rates, which will have an impact on Terna's cost of debt in the coming years. The effect will not, however, be immediate in view of the average duration of existing debt and the current high proportion of fixed rate borrowing (around 87%).

Major movements in the macroeconomic parameters to which the Group is exposed (interest rates, inflation, the yield on Italian government bonds and European cost of debt indices) could lead to a change in the allowed cost of capital that would offset the impact of movements in the variables themselves. In this regard, in 2024, the WACC is due to be revised if, following the update of certain parameters, the WACC rises or falls by more than 50bps. In addition, there will be an overall review of the parameters used to calculate the WACC in 2025, in accordance with the resolution published by ARERA at the end of 2021. In this case, the review process does not provide for thresholds for adjustments to the cost of capital.

Finally, it should be noted that the Terna Group currently has access to funding represented by liquidity and committed lines of credit (thus immediately available). This, together with the ability to generate cash, will enable the Group to meet its funding requirements for the next 18/24 months and respond to any further capital market tensions.

There has so far been little evidence of any impact on the adequacy of the **electricity system**. However, given the shortage of natural gas, which is used to produce approximately 37% of the power needed (down as a result of the efforts made to maximise production from other sources), it is necessary to evaluate if, were there to be a shortfall in natural gas supply next winter, it can only partially be offset by maximizing production from other energy sources were. The Government and the gas emergency committee are considering what steps to take in response to a major drop in the quantity of gas supplied by Russia. This would involve seeking to import gas from other parts of the world and cuts to consumption, as well as maximising production from remaining coal and oil-fired power plants and from sustainable bioliquid plants.

Europe's strategy, which is moreover consistent with Terna Group's energy transition goals, aims to progressively achieve independence from Russian gas.

In terms of **procurement**, as a result of international sanctions, the Terna Group has suspended the qualification of its sole Russian supplier, which has now expired. The related effect has been offset by increasing the use of other available suppliers. Steps have been taken to address issues regarding the supply of power lines, substation equipment and power systems by i) the conclusion of additional contracts after new calls for tenders, including indexation mechanisms (using tools such as online tenders that can be carried out quickly, such as for the supply of pylons) and ii) the negotiation of claims on non-indexed supply contracts. Steps have been taken to manage the most significant effects of price movements on supplies of metals (steel, aluminium, nickel and semiconductors).

As regards major projects (e.g., the Tyrrhenian Link and SACOI 3), where substation supply contracts are about to be fulfilled or negotiated as part of the tender process, etc., Terna may see an impact of the uncertainty surrounding increases in commodity prices and possible delays to contract delivery due to force majeure. These eventualities are covered by legally required price adjustment provisions based on specific, unequivocal standards and criteria. Finally, as regards civil works contracts, the price adjustment provisions provided for in the measures introduced by the Government in 2021 have had a minimal impact. In the meantime, as expected, the state aid provided under the Aiuti decree has had a more significant impact (amounting to approximately €25 million, including €6 million already received as an advance in 2022, with the remaining adjustment due in early 2023).



AT 31 DECEMBER 2021

INPUTS

**74,855 km** of circuits  
**99.9%** ownership of the NTG  
**102,469 MW** of installed renewable capacity:  
**2,203** RES plants recorded

AT 31 DECEMBER 2022

OUTCOMES

ASA indicator **99.99989%**  
NTG RENS indicator **240 MWh**  
net DSM charge of approx.  
**€2,290 million**  
(vs. €2,641 million in 2021)

**74,910 Km (+55 km)** of circuits

Consents for **29** new projects amounting to over €2.5 billion.

**40,300** substation inspections at a range of voltage levels

**1,950** inspections and maintenance works

**50** connection contracts for RES plants amounting to capacity of approx. 1,900 MW

OUTPUTS



AT 31 DECEMBER 2021

INPUTS

Equity attributable to owners of the Parent  
**€4,681.9 million**  
Cash flow from operating activities  
**€1,302.1 million**  
Debt  
**€10,002.5 million**

AT 31 DECEMBER 2022

OUTCOMES

Equity attributable to owners of the Parent  
**€6,142.0 million**  
Cash flow from operating activities  
**€2,528.0 million**  
Debt **€8,576.3 million**  
Dividend per share **31.44 €cents**  
EPS **43 €cents**

Capex **€1,756.8 million**  
(up 15.5% vs 2021)

EBITDA **€2,059.2 million**  
(up 11.0% vs 2021)

Quality of service **€21.3 million**  
(up €15.6 million vs 2021)

OUTPUTS



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Financial resources and sustainable finance	138
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# 3

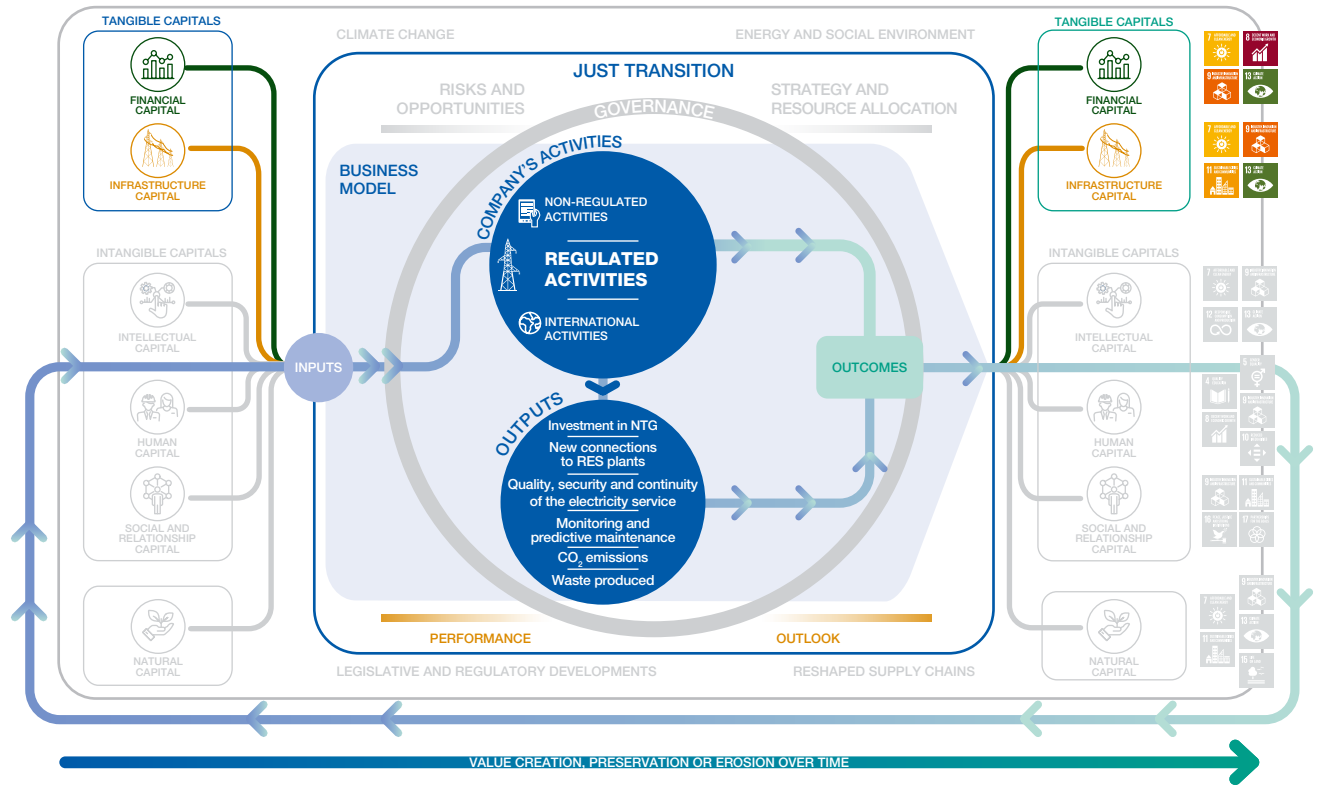
The Group's business

## In this section

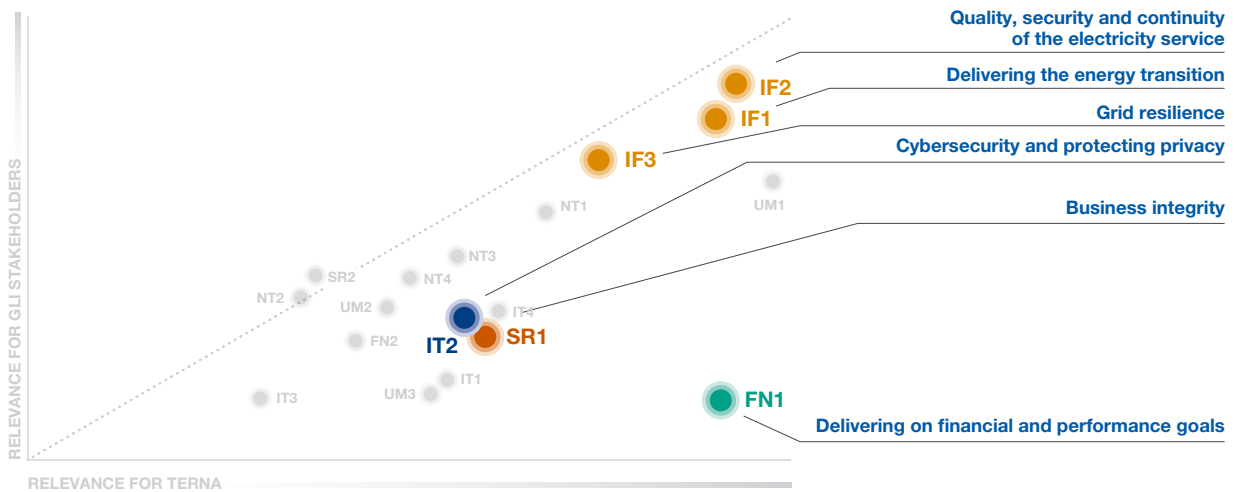
This section focuses on the tangible capitals and their contribution to the creation of value over time through the full implementation of Terna's business model. Operating activities are described in keeping with the Group's three lines of business: Regulated Activities, Non-regulated Activities and International Activities. Progress in delivering on the updated 2021-2025 Industrial Plan and the Development Plan is highlighted, as this represents the Group's ability to carry out the planned investment in Italy's electricity infrastructure needed to progressively integrate renewable sources into the electricity system and guarantee the country's energy security. Information on the operating and financial performance of each line of business is provided.



VALUE CREATION



MATERIALITY



These infographics highlight the topics dealt with in this section with the aim of **facilitating information connectivity** in this way, the section offers an overall view showing the links between all the factors that influence Terna's ability to create value over time and how they are dependent on each other. Material topics are indicated with a cross-reference in blue, showing the relevant code.

SR1  
2-6 >

# Operating activities

The Terna Group's business model is divided into three areas of business. The main area is Regulated Activities, which coincides with the obligations deriving from the government concession, together with Non-regulated Activities and International Activities.

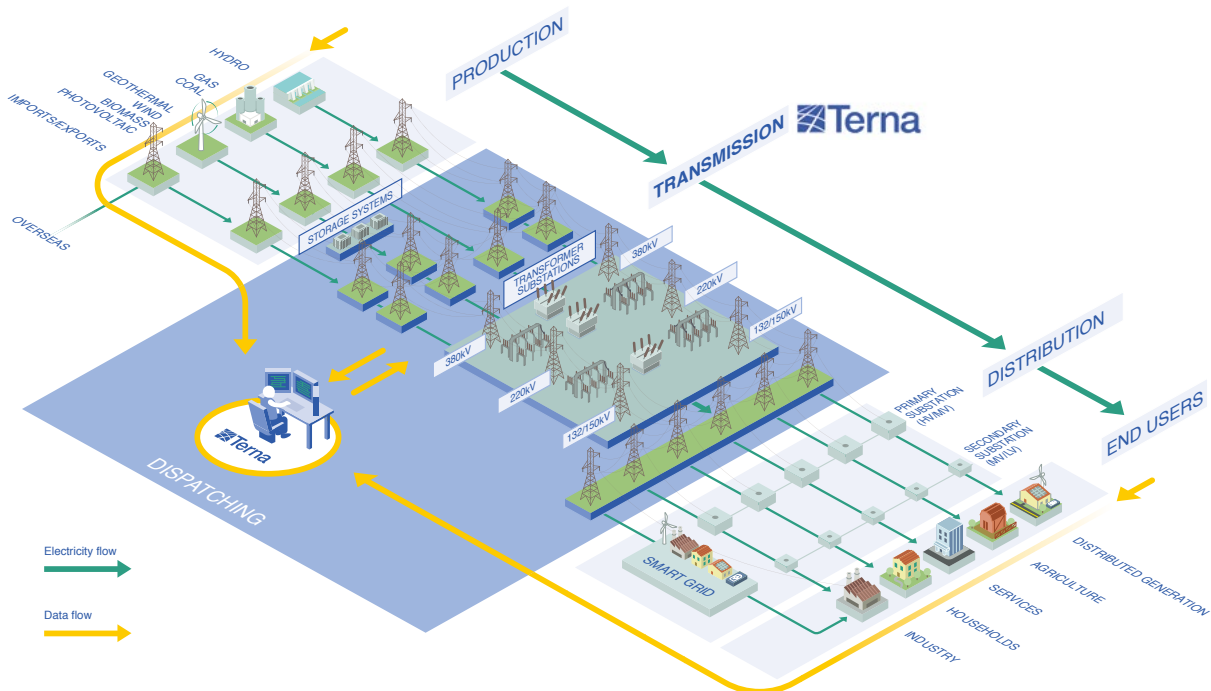
## DNF Regulated Activities: The National Transmission Grid

The Italian electricity supply chain consists of four segments: production, transmission, distribution and the sale of electricity.

The Terna Group owns 99.9% of the NTG, one of the most modern and technologically advanced in Europe. The Group's main regulated activities are the transmission and dispatching of electricity in Italy.

**Terna performs these activities in its role as the Italian TSO (Transmission System Operator) and ISO (Independent System Operator), under a monopoly arrangement and a government concession.**

### The national electricity system supply chain



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One of the peculiarities of every electricity system is the need to be able to continuously guarantee that demand for energy from end users (households and businesses) is always balanced by the energy produced by power plants.

Terna has the key and delicate role of guaranteeing this balance through a high-technology system, using a specific market (the dispatching services market or "MSD"), in which it makes daily purchases of the "services" necessary to constantly ensure the continuity and security of electricity supply.

In addition to strengthening the domestic grid, Terna is required to develop interconnection capacity with other countries' electricity systems. Indeed, Italy is electrically interconnected with France, Switzerland, Austria, Slovenia, Montenegro and Greece via 26 interconnectors.



## Electricity transmission

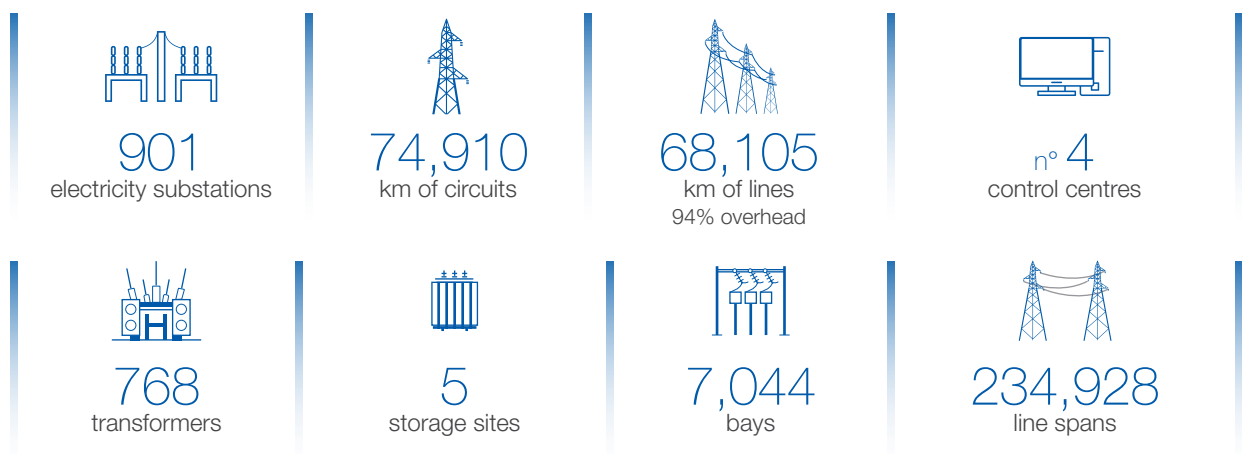
DNF

Planning for development of the National Transmission Grid ("NTG"), the performance of construction services and the maintenance of electricity infrastructure are the three areas of responsibility included in the regulated electricity transmission business.

The Group adopts a sustainable approach throughout every stage of the process. This takes the form of transparency in managing the Group's social and relationship capital through engagement with the stakeholders directly affected by the Group's development initiatives, with a view to building awareness of the importance of delivering the planned new electricity infrastructure.

### Terna's infrastructure\*

< EU4



\* Figures updated to 31 December 2022, except for the figure for line spans, which is updated to early 2023.

For additional information, go to page 320

## Connecting new plants

Terna has an obligation to connect all potential users requesting connection to the grid, identifying connection solutions in terms of criteria that guarantee the continuity and secure operation of the grid to which an applicant's new plant will be connected. Terna is responsible for high and very high voltage connections to the NTG of plants with a capacity of 10 MW or more.

Terna is handling around 4,450 applications for connection to the grid in relation to future or existing initiatives. More than 3,100 applications for connection using the general minimum technical solution, relating to the connection of plants using renewable energy sources (RES) to the NTG and representing total capacity of 164 GW, are currently in progress.

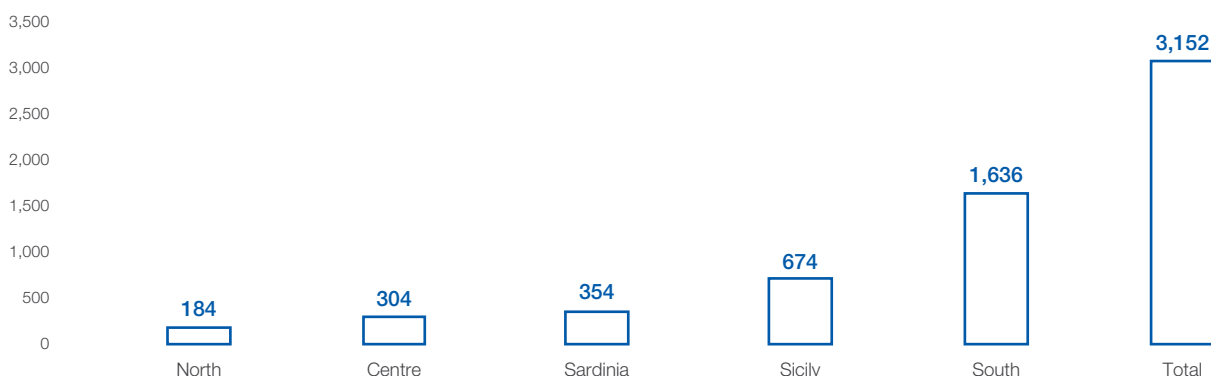
New projects at the development stage primarily regard wind and solar power plants.

All the information on applications for the connection of renewable energy plants is available on the Econnection dashboard (<https://www.terna.it/it/sistema-elettrico/rete/econnection>).

The data shows that:

- 85% of the applications received are from southern Italy and the islands (representing capacity equivalent to over 86% of the total);
- a sharp increase was registered in applications for the connection of new distribution plants and for upgrades to existing plants by local distributors, with the aim of harnessing production from renewable sources;
- **50 connection contracts** were signed in 2022 (representing **total capacity of 1,900 MW**), relating to the construction of new RES plants.

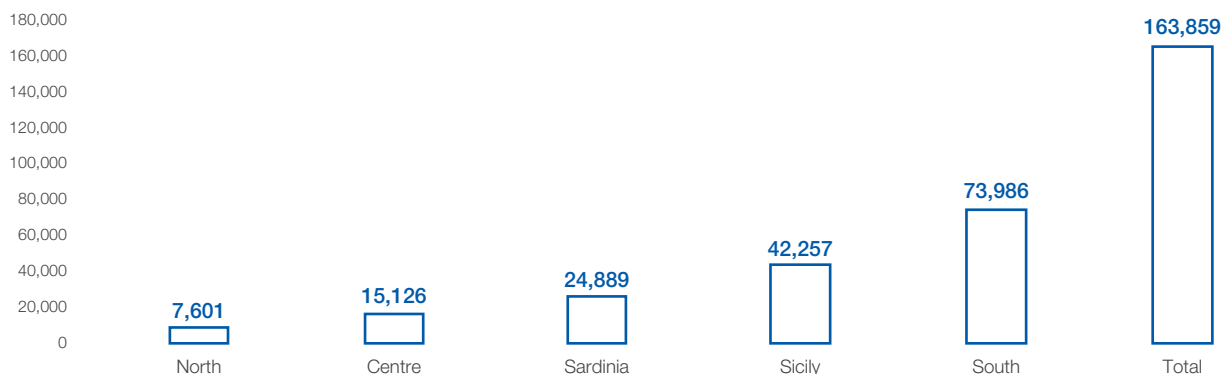
### Number of applications



Data as at 31.12.2022.

### Capacity

(MW)



Data as at 31.12.2022.

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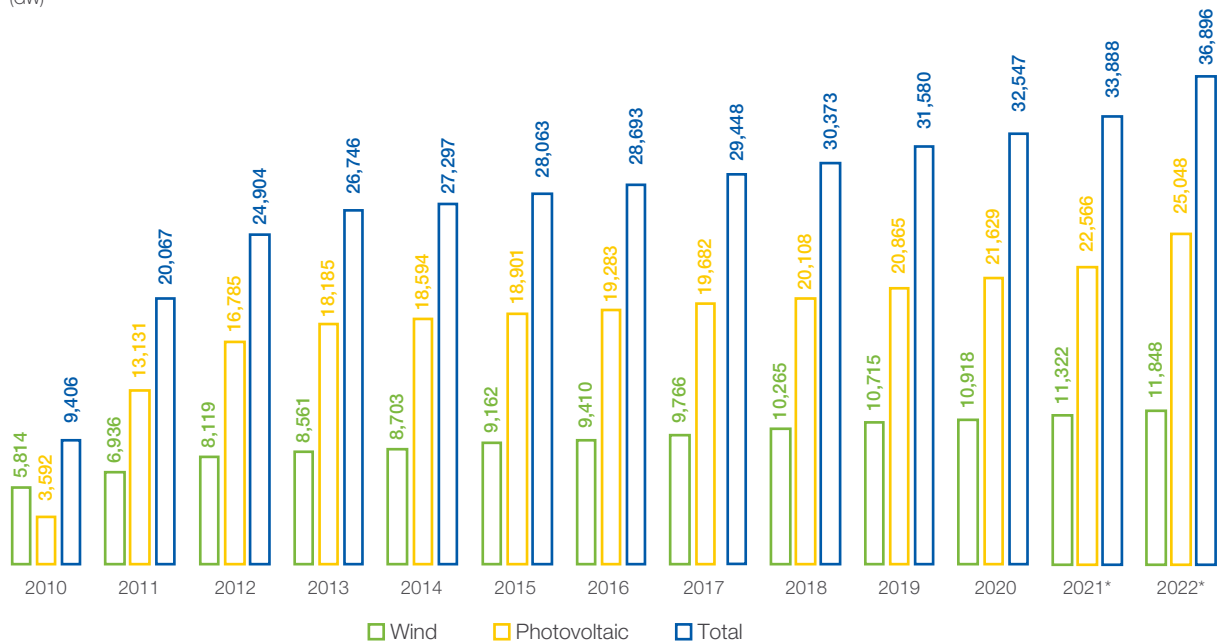
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**Installed photovoltaic and wind capacity (2010-2022)**

(GW)



\* The data for 2021 and 2022 are provisional.



IF1  
IF2

## Development Plan

SASB

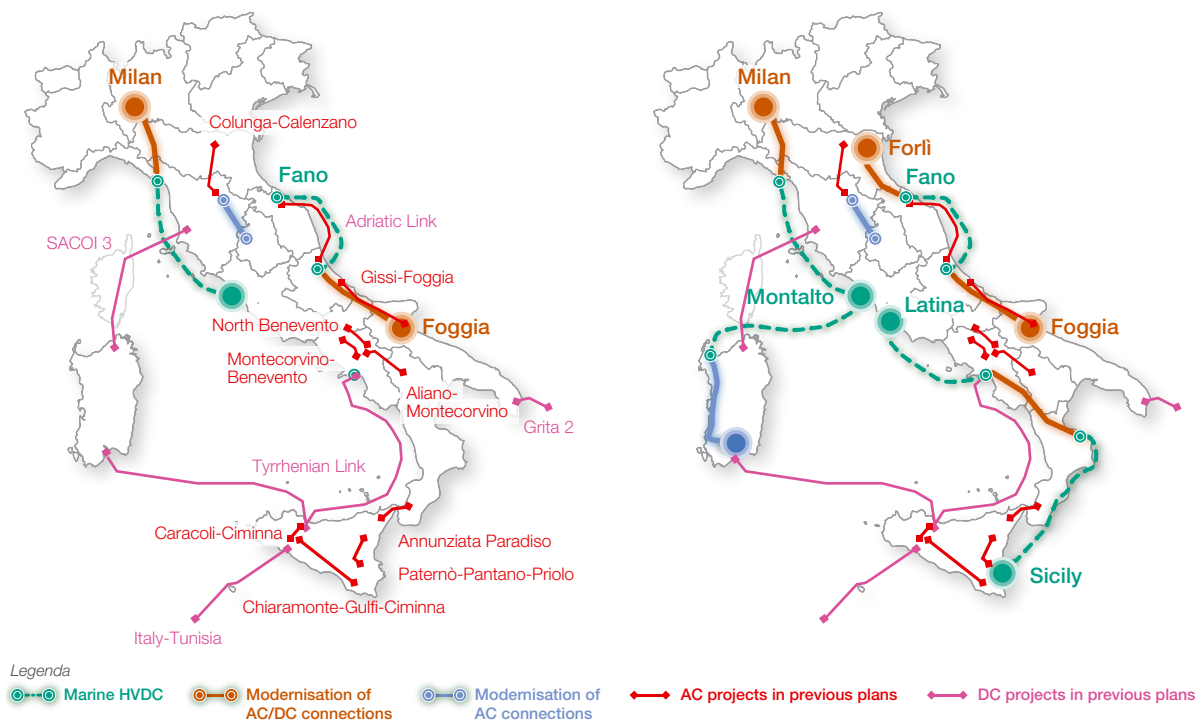
The identified needs relating to grid development are included in the 2023 Development Plan, which represents a structured and organic response to the challenges brought about by the energy transition and the current international geopolitical tensions, as described in the section, "Strategy".

### Principal projects for the National Transmission Grid

The 2023 Development Plan envisages capital expenditure of over €21 billion in the next ten years.

2023-2032

Post 2032





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INTERCONNECTORS AND LINES	KM OF CIRCUIT	STATUS	DRIVER			
HVDC Milan-Montalto	450	●	⦿	☁️		
Central Link	150	●	⦿	☁️		
HVDC Fiumesanto – Montalto (Sapei 2) and Sardinian Link	640	●	⦿	☁️		
HVDC Priolo-Rossano-Montecorvino-Latina	450	●	⦿	☁️		
HVDC Ionian	400	●	⦿	☁️		
HVDC Foggia-Villanova-Fano-Forlì	520	●	⦿	☁️		
Italy-France Interconnector	180	○	⦿	☁️	👉	☀️
Italy-Austria interconnector	24	○	⦿	☁️		☀️
Italy-Switzerland Interconnector	100	○	⦿	☁️	👉	☀️
Italy-Slovenia interconnector	154	○	⦿	☁️		☀️
Sardinia-Corsica-Italy interconnector	778	○	⦿		👉	☀️
HVDC Centre South - Centre North	221	○	⦿	☁️	👉	☀️
HVDC Italy-Tunisia	200	○	⦿	☁️		☀️
HVDC Mainland Sicily-Sardinia (West Link/East Link)	950	○ ○	⦿	☁️	👉	☀️
Restructuring metropolitan areas	182	○			👉	☀️
Chiaromonte-Gulfi-Ciminna	173	○	⦿	☁️	👉	☀️
Upgrade in the Mid Piave Valley	90	○		☁️	👉	☀️
Colunga-Calenzano ✓	85	○	⦿	☁️	👉	☀️
Gissi-Foggia	140	○	⦿	☁️	👉	☀️
Cassano-Chiari	36	○	⦿		👉	
Upgrade North - Calabria	10	○	⦿	☁️	👉	☀️
Paternò-Pantano-Priolo	63	○	⦿	☁️	👉	☀️
Elba-Mainland ✓	35	○	⦿		👉	☀️
<b>SUBSTATIONS</b>						
Agnosine substation						
Vizzini substation		○			👉	☀️
Pantano substation						
Torremaggiore substation		●				
Cerignola substation		○			👉	☀️
Ariano Irpino substation		●				

**Legenda Resilience and Status**

- ✓ Resilience Plan
- Completed/ in service
- Under construction
- Awaiting consents
- ⦿ Consultation
- Under design
- Planned

**Legenda Driver**

- ☁️ De-carbonisation
- ⦿ Market efficiency
- 👉 Security of supply
- ☀️ Systemic sustainability

The other initiatives completed in 2022 are shown in the section "Changes in the dimensions of the NTG" in the annexes.

IF3

## Security and Resilience Plan

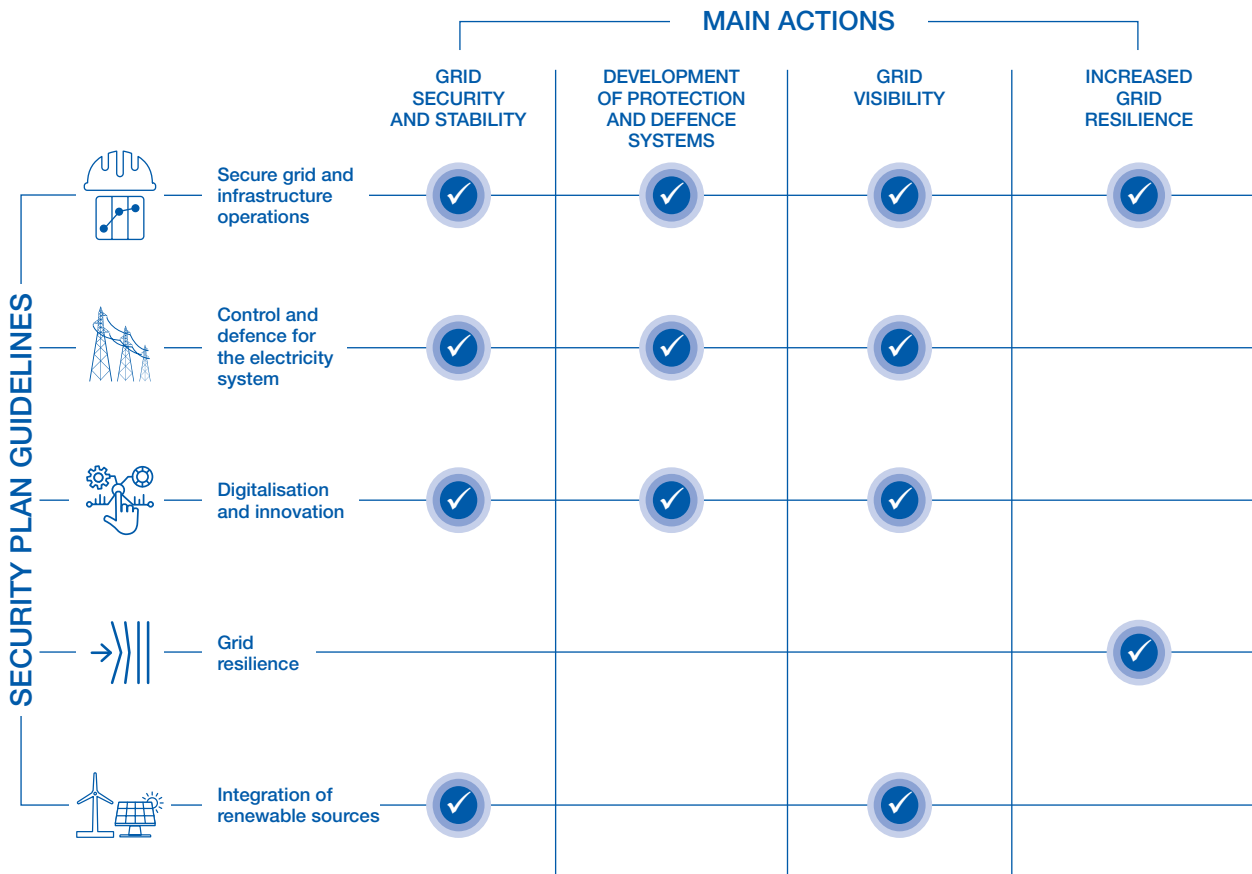
SASB

The National Electricity System Security Protection Plan, also known as the Security Plan, is a four-year programme of interventions to protect the security of the electricity system. Prepared by Terna pursuant to Law 290 of 27 October 2003, the Plan is submitted to the Ministry of the Environment and Energy Security for approval by 31 May of each year.

The **2022 Security Plan** is the 19<sup>th</sup> edition and updates the initiatives to protect the security of the electricity system envisaged for the four-year period 2022-2025, with capital expenditure of over €1 billion.

The 2022 Security Plan is fully in line with developments in the energy sector, linked to the ongoing ecological transition process, the increased share of the production mix represented by renewables, the ongoing phase-out of coal by 2025 and increasingly frequent and severe events relating to climate change, affecting the electricity grid causing failures and outages.

To deal with the new energy transition challenges, Terna prepared the 2022 Security Plan based on 5 Guidelines and 4 Actions to guarantee high levels of security for the electricity system:



The 2022 Security Plan also includes initiatives designed to upgrade management, control and defence systems for the grid, innovating operating logistics, installing system control devices and implementing solutions for the physical and cyber security of the grid infrastructure.

IT2

Attached to the Security Plan is the **Resilience Plan**, a cross-cutting plan that establishes all the initiatives required to prevent and/or reduce damage to the electricity grid caused by increasingly severe and frequent weather events. The plan includes infrastructure protection, renewal and monitoring work, assessed using **Resilience Methodology**.

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PROJECTS	STATUS		DRIVER		
Fiber for the Grid					
Ice, snow and other weather events risk mitigation systems ✓					
Control devices					
Cyber Security					
Dispatching, control and protection of the NTG					

**Legenda Resilience and Status**

- ✓ Resilience Plan
- Completed/ in service
- Under construction
- Awaiting consents
- Consultation
- Under design
- Planned

**Legenda Driver**

- De-carbonisation
- Market efficiency
- Security of supply
- Systemic sustainability

# FOCUS

## Grid Resilience and Resilience Methodology

There is no doubt that increasingly severe and frequent weather events are closely related to climate change.

In this regard, if no action is taken to prevent and mitigate the effects of climate change, NTG infrastructure will continue to be increasingly exposed to greater risks of damage and outages. Therefore, increasing the NTG's resilience is a key element of the response to the climate crisis.

Terna's Resilience Methodology is the outcome of two years of joint work with RSE, approved by ARERA in Resolution 9/2022/R, as set out in Annex A76 of the Grid Code. It is a new approach that allows the grid's level of resilience to be measured. Based on the projected critical issues identified and the possible risk of energy not being supplied to the NTG following severe weather events, it then identifies initiatives that would increase the resilience of the transmission grid, guaranteeing efficient and effective infrastructure.

During 2022, the approach was applied in the plan to increase the NTG's resilience (the 2022 Resilience Plan), analysing the benefits of infrastructure work with regard to the threats posed by strong winds, ice and snow. The plan was presented to grid operators through a public webinar on 1 December 2022.

Again applying the Resilience Methodology, Terna has selected a list of projects to be included in calls for proposals for the award of a non-repayable grant of €150 million under the NRRP, aimed at increasing the resilience of over 1,500 km of the NTG. With the Energy Incentive Directorate's management decree 413 of 16 December 2022, the Ministry of the Environment and Energy Security approved the list of Terna's projects qualifying for subsidies and financing under the NRRP.

Additional aspects and areas of resilience that will be covered and/or developed already from 2023, as provided for in Resolution 9/2022, regard analysis and studies regarding a further extension of the Resilience Methodology and the modelling of significant events for the NTG (for example, hydrogeological risks). There will also be a presentation to grid operators, on 12 January 2023, on the effectiveness of installing anti-rotation devices<sup>40</sup> as a capital-light solution for increasing the NTG's resilience.

<sup>40</sup> Devices installed on overhead power lines to increase the conductors core strength and prevent wet snow sleeves.

DNF

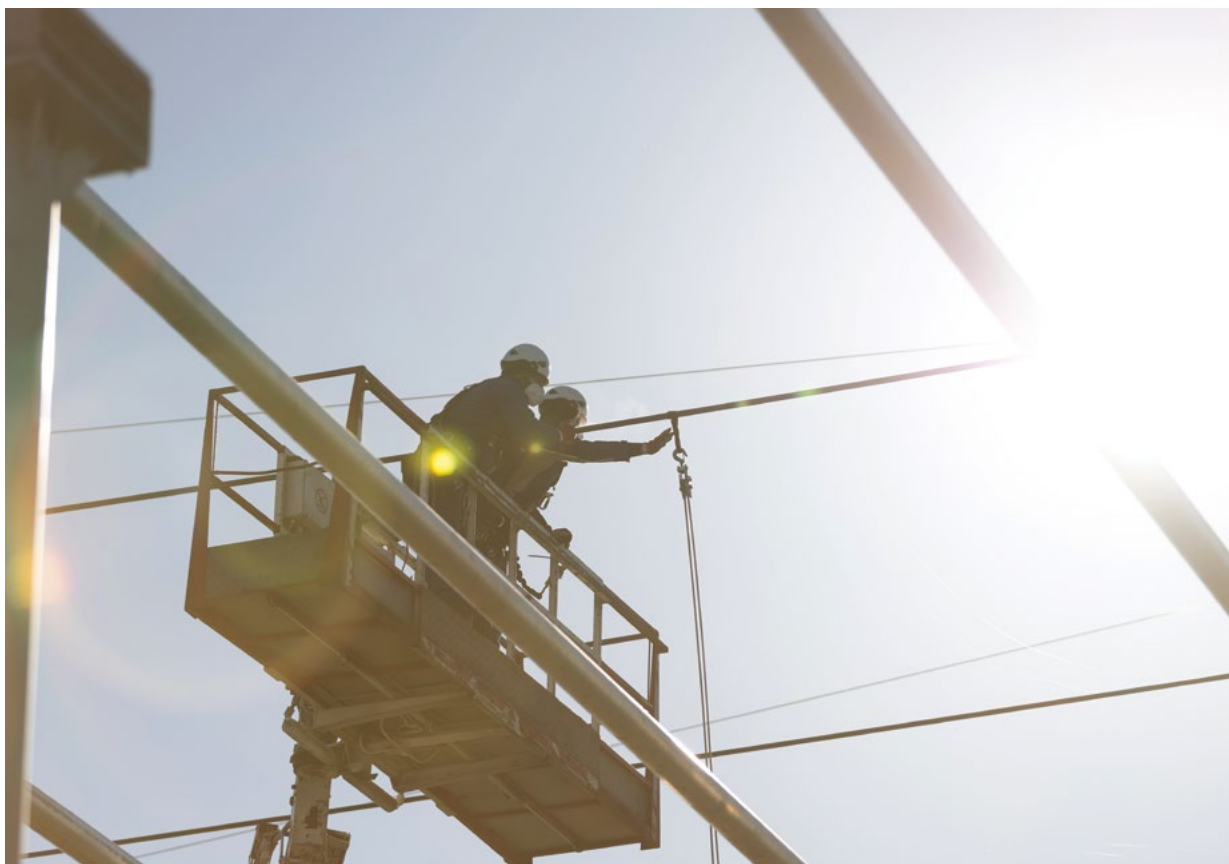
## Infrastructure maintenance

Maintenance of electricity grid infrastructure is essential in order to guarantee quality of service, as well as the security of the assets managed (power lines and substations) and their performance during their lifecycle. These operations are carried out using a condition-based approach; a series of projects are in progress to drive operating activities towards a predictive, risk-based maintenance model. **The IT and digital tools used today to support maintenance activities are subject to continuous innovation**, and primarily include: the **MBI (Monitoring and Business Intelligence)** decision-support system, which suggests maintenance activities to be carried out and indicates whether or not they can be postponed, and **WFM (Work Force Management)** software, which manages the workforce by planning and scheduling MBI maintenance activities.

In addition, Terna has participated for many years in international benchmarking activities aimed at sharing O&M and renewal best practices, consistently ranking among the best TSOs in terms of asset management process efficiency and optimal service provision quality.

### Routine maintenance

Repairs are carried out when signs of deterioration are identified as a result of the on-site monitoring process or through the analysis of on-line sensor data. These indications and any problems identified are processed by the asset engineering models included in MBI (Monitoring and Business Intelligence) and developed by the Asset Management department in agreement with other departments within the Company. The outcome of the engineering models are used to draw up the maintenance plan designed to ensure that assets continue to be fit for purpose over time.



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## Renewal Plan

The Renewal Plan is based on an analytical method that, starting from consistent, objective technical criteria, identifies and evaluates **extraordinary maintenance works** ("renewal"), assessing the state of repair and technical status of line components and substation equipment, compared with the effective operating conditions they have to deal with and prioritising components and infrastructure of greater importance for operation of the electricity grid.

Condition-based renewal of infrastructure aims to:

- carry out condition-based and component-based work only on individual items of infrastructure that effectively require it;
- maximise infrastructure use at the lowest cost, and thus keep each individual component operating efficiently for as long as possible;
- implement a plan of long-term prioritised works, as established through technical analysis.

To constantly improve and increase the efficiency of the asset management process, the Renewal Plan is divided into the following categories of benefit, which include the renewal objectives:

- **Sustainability:**

- **Environmental quality:** introduction of more eco-friendly assets that are environmentally sustainable. These include, for example, investment in vegetable-oil transformers, fluid-oil cables and certain types of cable terminals, technical adjustments to lines/underground cables and the replacement of current and voltage transformers;
- **Service quality:** solutions to improve the reliability of assets, based on asset management analysis (designed to assess the asset's technical conditions). By improving their reliability, the works reduce the Health Index score and the risk of outages. These include, for example, investment in the renewal of lines, the RIGEL (Reduction of Power Line Failures) programme and substation renewal (equipment and machinery).

- **Innovation and digitalisation:**

- **Quality of the O&M process:** the introduction of new solutions and technologies to increase the effectiveness of the operating and maintenance process. These include, for example, investment in the new digital control system for substations, online diagnostics for substation equipment, cable monitoring and functional separations.

- **Resilience:**

Strengthening the grid's ability to withstand the effects of the snow risk, the exposure of lines to hydrogeological risk and substation exposure to seismic risk. These include, for example, investment in:

- ice/snow line resilience: strengthening power lines, increasing the cutting of vegetation, etc;
- ice/snow substation resilience: substation work, the digitalisation of substations, etc;
- hydrogeological risk resilience for power lines: the instalment of hydrogeological monitoring devices, etc;
- substation resilience to exposure to seismic risk: the instalment of seismic dampers.

## Maintenance operations

### INFRASTRUCTURE MONITORING AND CONTROL



~ 40,300

substation checks for various voltage levels



~2.8

average number of inspections per year per overhead line



~196,800 km

ground and helicopter inspections of overhead lines



~99,900 km

inspections of underground cable lines



~151,700 km

helicopter inspections of overhead lines



~43

average number of inspections per year per underground cable

### ROUTINE MAINTENANCE



~20,000 km

of power lines on which vegetation was cut back to ensure their correct and safe operation



~1,950

monitoring checks and maintenance work carried out using live-line working

### EXTRAORDINARY MAINTENANCE

#### Lines



~2,000 km

of conductors replaced

~2,100 km

of ground wires replaced

217

pylons replaced

#### Substations



32

static machines replaced

192

circuit breakers replaced

256

disconnectors replaced

439

current transformers replaced

874

voltage transformers replaced

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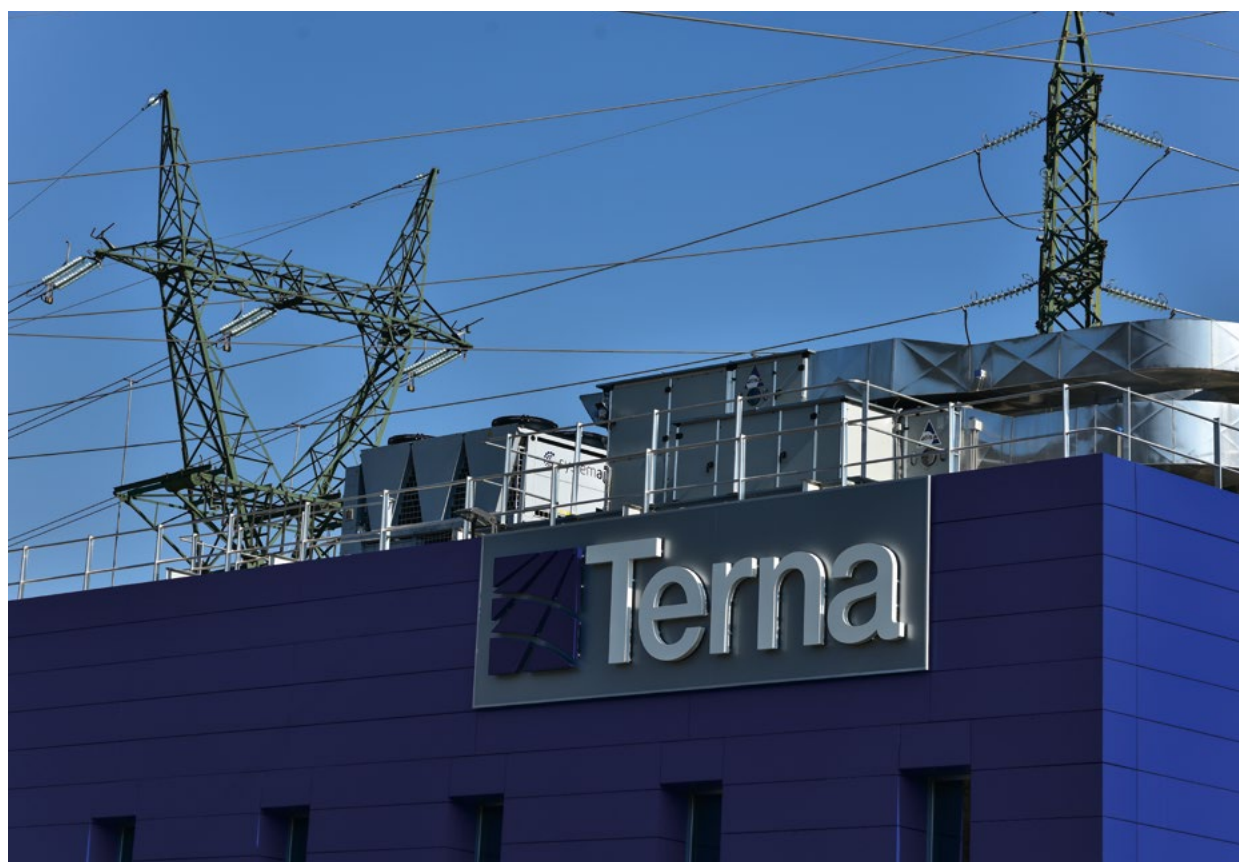
## The Group's capital expenditure

The Terna Group's **total capital expenditure** in 2022 amounts to **€1,756.8 million**, a significant increase compared with €1,520.7 million in the previous year **(up 15.5%)**.

	2022	2021	CHANGE	% CHANGE
Development Plan	673.7	574.0	99.7	17.4%
Security Plan <sup>(1)</sup>	273.4	276.8	(3.4)	(1.2%)
Projects to renew electricity assets	475.4	484.7	(9.3)	(1.9%)
Other capital expenditure <sup>(1)</sup>	245.5	125.4	120.1	95.7%
<b>Total regulated assets</b>	<b>1,668.0</b>	<b>1,460.9</b>	<b>207.1</b>	<b>14.2%</b>
<b>Non-regulated assets <sup>(2)</sup></b>	<b>64.0</b>	<b>49.0</b>	<b>15.0</b>	<b>30.6%</b>
<b>Capitalised financial expenses</b>	<b>24.8</b>	<b>10.8</b>	<b>14.0</b>	<b>129.9%</b>
<b>Total capital expenditure</b>	<b>1,756.8</b>	<b>1,520.7</b>	<b>236.1</b>	<b>15.5%</b>

<sup>(1)</sup> The figures for 2021 have been restated following changes to the purposes of investments, without modifying the overall value of investment in regulated assets.

<sup>(2)</sup> The figures for 2022 and 2021 do not include assets held for sale reclassified in accordance with IFRS 5 and primarily relate to private interconnections and the re-routing of power lines for third parties.



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## Main regulated works carried out during the year

> Development Plan – €673.7 million

**Tyrrhenian Link**  
(€109.7 million) **Cable connections:** activation of the main cable supply contracts and the start of design work. Sea trials for the laying of cable at the deepest point have been completed, as has the testing of cable protections for the East section (Campania-Sicily).

**Converter stations:** procurement and construction contracts have been signed.

**Paternò-Pantano-Priolo**  
(€31.3 million) **380kV Paternò-Pantano power line:** construction has been completed pending the conclusion of work on the relevant part of the substation.

**380kV Pantano-Priolo power line:** work is continuing on construction of the foundations (53 out of a total 115), and assembly of the first pylons (50 out of a total 115) and the stringing of a first section of approximately 4.5 km out of a total 45 km has been completed.

**380/220/150kV Pantano substation:** work has been completed on construction of the foundations for the 380kV and 220kV sections, is nearing completion on construction of the foundations for the 150kV section and the ATRs, and electromechanical assembly on the 380kV section has begun.

**Elba-Mainland connection**  
(€30.8 million) **132kV Colmata-Portoferraio power line:** the marine survey, sea trials, production of the marine and terrestrial cables and landfall excavation have been completed. The transplant of Posidonia seagrass and installation of approximately 1.3 km of underground pipes to hold the cables have also been completed.

**Upgrade of Portoferraio primary substation:** work began in January 2023.

**132kV Portoferraio-S. Giuseppe power line:** The line entered service in December and the existing overhead line will be demolished in the coming months.

**Colunga-Calenzano**  
(€25.8 million) **380kV Colunga-Calenzano power line:** the executive design phase and the related surveys have been completed, as has the production of key components. Confirmation of compliance with requirements imposed during the consents process is awaited from the relevant agencies before work can begin.

**Cerignola substation**  
(€15.9 million) Substation areas have been acquired, the executive design and award of the contract have been completed and work has begun.

**Italy-France interconnector**  
(€13.9 million) The private connection entered service in November 2022.  
Commissioning trials for the public connection are in progress.

**Vizzini substation**  
(€12.1 million) **Vizzini substation:** the asset entered service in December.

**Vizzini substation connections:** the 380kV connection to the Paternò-Chiaramonte Gulfi line and the 150kV connection to the Vizzini – SE Mineo line have entered service; work is continuing on the 150kV Vizzini – SE Lidocida Eubea connection.



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Work on construction of the foundations and electromechanical assembly for the 380kV section has been completed; work is continuing on the 220/132kV sections, as is the assembly of transformers, control systems and auxiliary systems. **Magenta substation (€12.0 million)**

**Celano substation:** the asset entered service in September (11 bays). **Celano substation (€10.2 million)**  
**Celano substation connections:** approximately 3km entered service in September and approximately 5km in December.

### > Security Plan – €273.4 million

**Maida and Villanova compensators:** these assets entered service in November. **Synchronous compensators<sup>41</sup> (€82.5 million)**  
**Codrongianos and Rosara compensators:** the civil works have been completed, machinery has been delivered and assembly is nearing completion.  
**Suvereto compensators:** the civil works are nearing completion and machinery production is complete.

**Latina, Galatina and Villanova:** the equipment entered service in December. **STATCOM (€38.1 million)**  
**Aurelia and Montalto:** the civil works are nearing completion and the main supplies have been produced (step-up convertors and transformers).

**Maida, Deliceto, Rotello, North Rome, Santa Maria Capua Vetere and Bellolampo:** the equipment entered service in the previous year. **Reactors (€20.7 million)**  
**Montecorvino, West Bari, Partinico, Fulgatore and Casuzze:** the civil works are nearing completion and assembly of machinery is in progress. Entry into service is expected in the first quarter of 2023.

This project aims to boost the availability of data on the grid in order to make it easier to monitor and manage the security of the electricity system, by increasing and expanding the fibre optic network. **Fiber for the Grid (€16.2 million)**  
 By December 2022, 25 substations were connected via proprietary fibre, adding to a total of 535 substations covered.

### > Projects to renew electricity assets – €475.4 million

Fulfilment of the commitment to carry out works to renew electricity assets to improve the reliability and resilience of the NTG has continued. **Renewal of electricity assets**  
 The renewal of overhead lines and substation equipment continued during 2022: approximately 1,942 km of conductors and 32 items of equipment were replaced (29 mineral, 3 green).

<sup>41</sup> Synchronous compensators, STATCOMs and reactors are grid components that act as reactive compensation mechanisms.

## Research and development

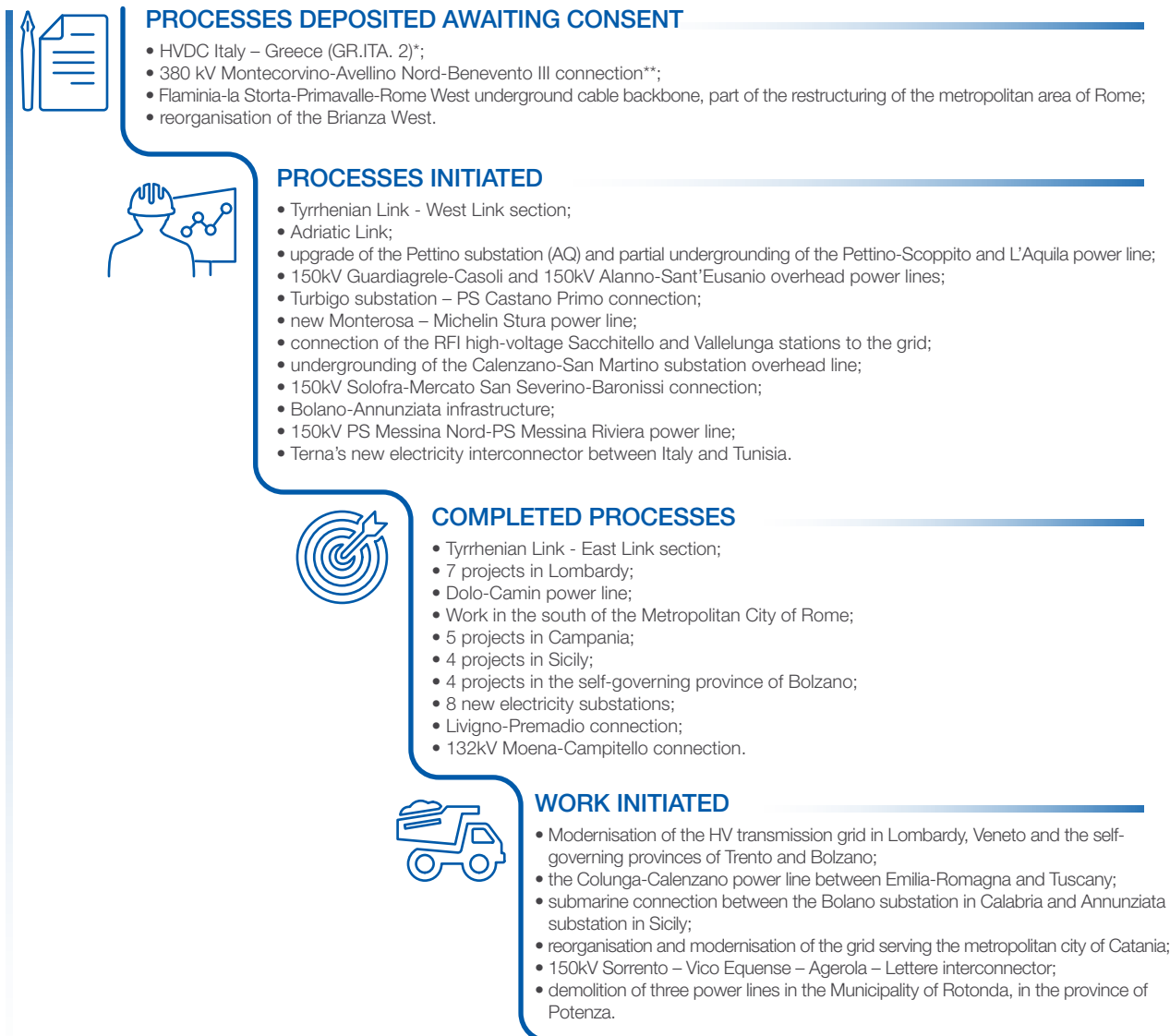
In 2022, the Terna Group invested approximately €7.4 million in research and development and incurred costs of approximately €8.3 million.



## Consent processes

During 2022, the Ministry of the Environment and Energy Security and regional authorities authorised a total of **29 new Terna projects** relating to the development of the electricity grid, representing total capital expenditure of over €2.5 billion, of which €1.9 billion related solely to the Tyrrhenian Link. This marks a **new historical record for the Terna Group**, which has more than doubled the figure from the previous year, and marks a tenfold increase compared with the figure for 2020.

### Stages of the consents process



\* The work, together with the current grid infrastructure, involves doubling the current HVDC interconnection between Italy and Greece and, above all, between the Galatina and Arachthos nodes, by laying a new marine cable connection, laying two new terrestrial cable sections on the Italian and Greek sides and installing two AC/DC converters in available areas at the existing Galatina and Arachthos substations.

\*\* The new connection is of strategic importance for the NTG given that it will provide for greater integration of energy produced from renewable sources, improve dispatching and increase the security of power supply in the area.

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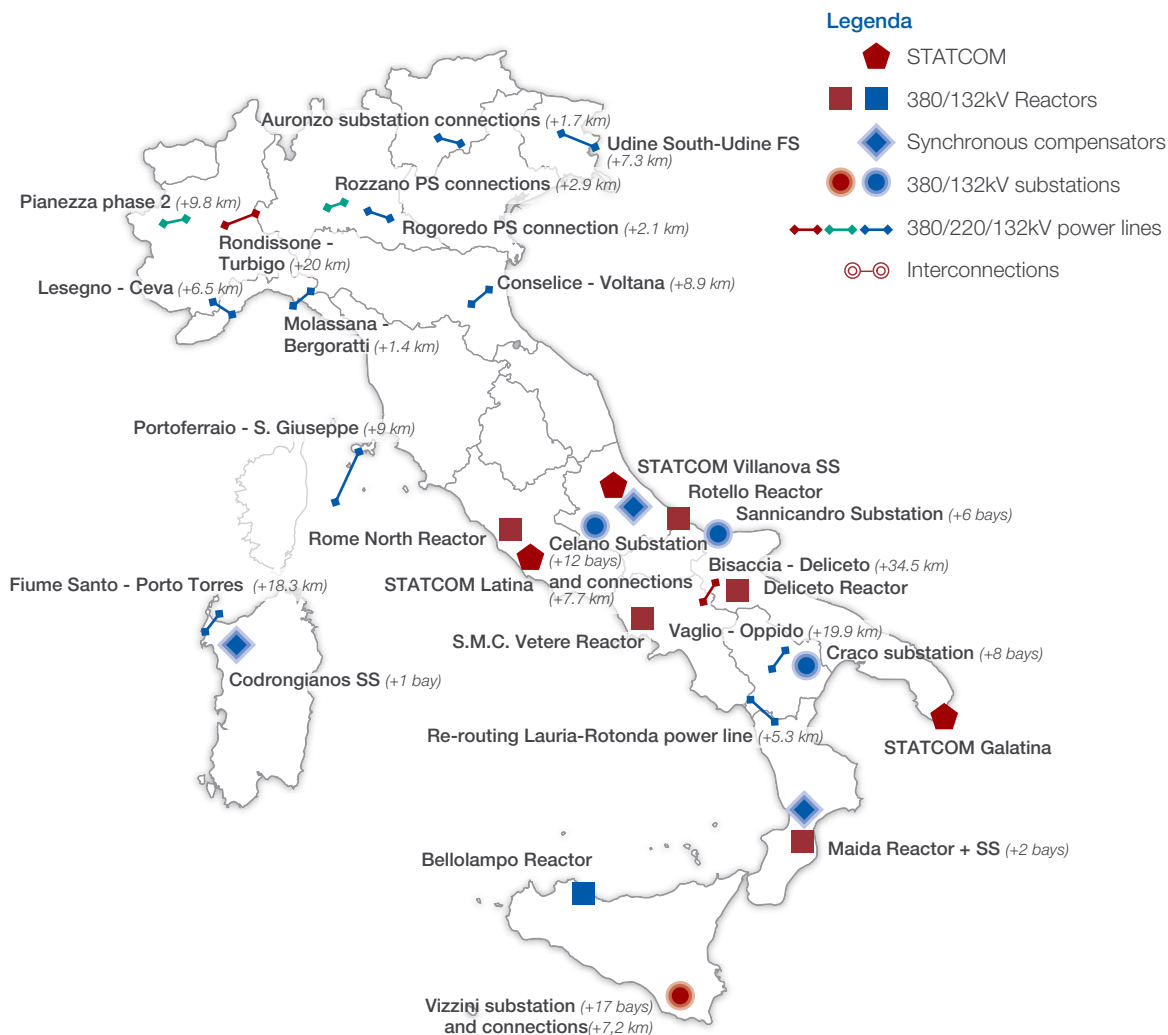
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Main projects carried out in 2022\*



\* The figures shown also include the equipment installed to replace any infrastructure disposed of or demolished.

# FOCUS

## Special projects

### 1 Interconnector Italy-France

The new direct current interconnection between Piossasco (IT) and Grande Ile (FR) will increase interconnection capacity between Italy and France by **1200 MW**, raising it from approximately the existing **3 GW** to over **4 GW**. The "Grande Ile - Piossasco" project is **190 km** long.

#### STATE OF PROGRESS

The Private Bipole entered service on 7 November 2022.

#### WORK IN PROGRESS

The Commissioning tests for the Public Bipole are currently in progress.

#### BENEFITS OF THE PROJECT

- **Increased exchange capacity** with the rest of Europe, especially with France;
- **Greater capacity for mutual assistance** between the Italian and French systems;
- **Full integration of the two markets**, resulting in increased security and adequate demand coverage;
- Increased possibility for Italy to be supplied from more affordable power plants.

#### ENTRY INTO SERVICE

Public Bipole – expected during 2023



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>> continued **SPECIAL PROJECTS FOCUS**

2

HVDC connection

## Sardinia - Corsica - Italian mainland (SA.CO.I.3)



The new tri-terminal high-voltage direct current (HVDC) connection consists of **renovation** and **modernisation** of the existing electricity connection between Sardinia, Corsica and the Italian mainland. It will enable the use of total transport capacity of up to **400 MW**.

The connection between Tuscany, Corsica and Sardinia will have a length of approximately **388 km** per pole (including approximately 140 km of marine and terrestrial cables and approximately 248 km of overhead lines).

### STATE OF PROGRESS



Following the EIA Decree, the Ministry of the Environment and Energy Security concluded the Service Conference on 15 September 2022. The Tuscany Regional Authority published the related Memorandum of Understanding in October. In Corsica, the additions to the related Public Inquiry requested by the Corsican regulator, CNPN, were filed. The regulator then reviewed its previous ruling, issuing its approval on 18 January 2023.

### WORK IN PROGRESS



On 18 January 2023, the Ministry of the Environment and Energy Security began the process of publishing the Memorandum of understanding with Sardinia Region Authority through its Interinstitutional Committee. In Corsica, the Public Inquiry phase is being prepared. The procurement phase for the converter stations, renewal of the overhead line in Corsica and the work on the cable duct is in progress.

### BENEFITS OF THE PROJECT



- **Reduced costs** for procurement of resources for the Dispatching Services Market (DSM);
- **Increased fitness for purpose of the electricity system** in Sardinia;
- Greater contribution to Sardinia's reserve requirements;
- Greater **benefits in terms of energy not supplied**, especially taking into account the scenarios envisaged for the evolution of the electricity system (PNIEC).

### ENTRY INTO SERVICE



Module 1 Sardinia-Corsica-Tuscany 2027  
Module 2 Sardinia-Corsica-Tuscany 2027



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>> continued SPECIAL PROJECTS FOCUS

### 3 HVDC connection Mainland - Sicily - Sardinia (Tyrrhenian Link)

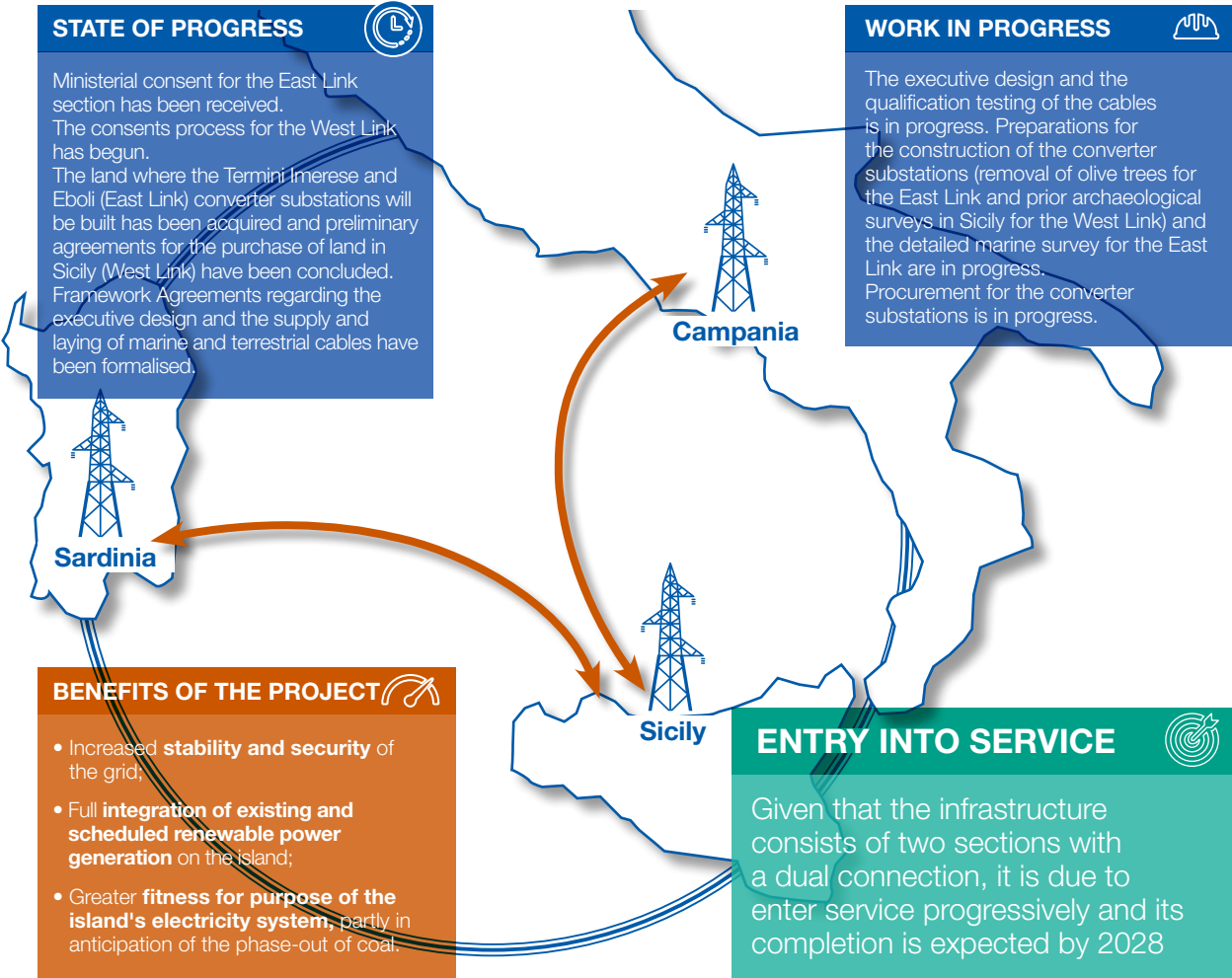
The new submarine interconnection is a state-of-the-art project that will connect **Campania - Sicily - Sardinia** via two submarine, **1,000 MW**, direct current power lines. The project has been subdivided into an East Link (Campania – Sicily) and a West Link (Sicily– Sardinia). The connection has a **submarine section** that is approximately **1,000 km long**, including in very deep waters, which means it is one of the new global benchmarks for this type of highly complex infrastructure.


**STATE OF PROGRESS** 

Ministerial consent for the East Link section has been received.  
The consents process for the West Link has begun.  
The land where the Termini Imerese and Eboli (East Link) converter substations will be built has been acquired and preliminary agreements for the purchase of land in Sicily (West Link) have been concluded. Framework Agreements regarding the executive design and the supply and laying of marine and terrestrial cables have been formalised.


**WORK IN PROGRESS** 

The executive design and the qualification testing of the cables is in progress. Preparations for the construction of the converter substations (removal of olive trees for the East Link and prior archaeological surveys in Sicily for the West Link) and the detailed marine survey for the East Link are in progress. Procurement for the converter substations is in progress.



**BENEFITS OF THE PROJECT** 

- Increased **stability and security** of the grid;
- Full **integration of existing and scheduled renewable power generation** on the island;
- Greater **fitness for purpose of the island's electricity system**, partly in anticipation of the phase-out of coal.

**ENTRY INTO SERVICE** 

Given that the infrastructure consists of two sections with a dual connection, it is due to enter service progressively and its completion is expected by 2028



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## 4 HVDC connection **South Central – North Central (Adriatic Link)**

The **Adriatic Link** is the new **1,000 MW marine connection** that will connect the regions of **Marche** and **Abruzzo**. The project will strengthen energy exchange in central Italy, responding to the need for security and flexibility of the national electricity system and the goal of increasing renewable energy use. The project is part of the NTG Development Plan and is included in the works provided for in the PNIEC (National Energy and Climate Plan), which aims to decarbonise the energy system by 2030.

### STATE OF PROGRESS

The public consultation has begun and the consents process is expected to conclude in 2024. Procurement for both the marine and terrestrial HVDC cables and the converter substations has begun.

### WORK IN PROGRESS

The consents process is in progress, with the services conference underway. Procurement for the marine and terrestrial HVDC cables and the converter substations is in progress (expected to be completed by 2023 and 2024, respectively).

### BENEFITS OF THE PROJECT

- **Market efficiency and the integration of renewable sources**, reducing south-north grid congestion and guaranteeing transport capacity of 1,000 MW;
- **Quality, Security and Resilience**, improving the performance of the system in terms of stability in the event of failures.

### ENTRY INTO SERVICE

Entry into service is expected in 2028



>>

>> continued SPECIAL PROJECTS FOCUS

## 5 HVDC connection Italy – Tunisia (TUN.ITA.)

The new 500kV direct current connection (HVDC) will **connect Sicily with the Capo Bon peninsula in Tunisia**, enabling the exchange of up to 600 MW of power. The project will be approximately 223km long (of which 200km in marine cable).

### STATE OF PROGRESS

The consents process for the work in both Italy and Tunisia has begun. A €307 million grant from the EU has been obtained as part of the EU's Connected Europe Facility (CEF) financing programme. The procurement phase for the works has begun.

### WORK IN PROGRESS

The consents process is in progress. Preparations for the launch of calls for tender for the cables and converter substations are ongoing.

### BENEFITS OF THE PROJECT

- Increased grid **stability and Security**;
- greater **efficiency of the electricity market** for the benefit of users;
- greater **integration of renewable sources**;
- **reductions in greenhouse gas emissions** - CO<sub>2</sub> and other pollutants.

### ENTRY INTO SERVICE

2028





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## Continuity and quality of service

Each segment of the electricity system - generation, transmission and distribution - plays a role in ensuring the availability of electricity in Italy, guaranteeing adequate quality standards and keeping the number of outages below pre-set thresholds.

Terna monitors service continuity through various indicators defined by ARERA (Resolution 567/19) and in Terna's Grid Code.

These continuity indicators are significant for the system, as they monitor the frequency and impact of events that have occurred on the electricity grid as a result of faults or due to external factors, such as weather events. In all cases, the period of observation is three years, a period in which there have been no significant changes, testifying to the high quality of service achieved.

IF2  
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 < EU29

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### Continuity indicators used

#### RENS\*

##### What it measures

Energy not supplied following events affecting the relevant grid\*\*.

##### How it is calculated

The sum of the energy not supplied to users connected to the NTG (following events affecting the relevant grid, as defined in the ARERA regulations governing quality of service).

\* Regulated Energy Not Supplied.

\*\* The "relevant grid" refers to all of the high-voltage and very high-voltage network.

#### ASA\*\*\*

##### What it measures

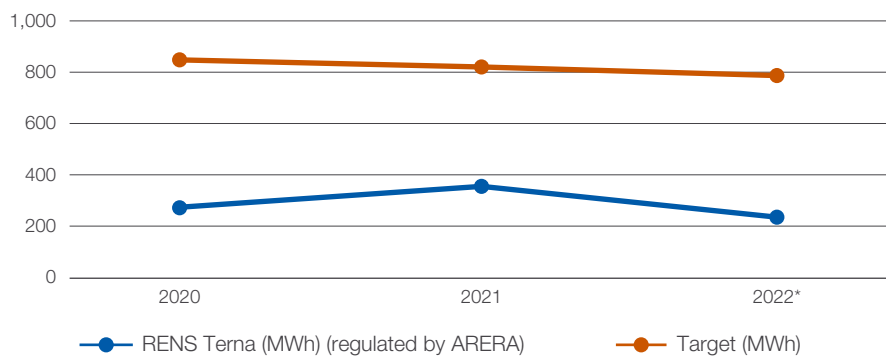
Availability of the service provided by the NTG.

##### How it is calculated

Based on the ratio of the sum of energy not supplied to users connected to the NTG (ENS) and energy fed into the grid.

\*\*\* Average Service Availability.

### NTG RENS indicator <sup>42</sup>



\* Provisional data.

The "NTG RENS" indicator for the period from January to December 2022, based on preliminary data, amounts to approximately 240 MWh (compared with an annual target of approximately 791 MWh set by ARERA).

As regards the ASA indicator, availability was 99.99989% (provisional data) in 2022, compared with 99.99992% in the previous year. The operating performance shows that ASA has remained stable at a high level over the years (the higher the indicator, the better the performance). This indicator shows that the energy not supplied following a fault on the owned grid represents a minimal part of the total quantity of energy supplied to users of the grid.

<sup>42</sup> The targets for 2016–2023 have been set as an average of the 2012–2015 RENS indicator, referred to in ARERA Resolution 567/19/R/eel, with a 3.5% improvement in performance required for each year compared with the previous one. Since 2016, Terna's bonus/penalty mechanism also includes the performance of the grid operated by Terna Rete Italia S.r.l. (merged with Terna S.p.A. on 31 March 2017).

### 3. The Group's business • Operating activities

Existing regulations (set out in Resolution 567/2019/R/eel) envisage a series of mechanisms designed to regulate and encourage improvements in the quality of service provided by Terna. The overall economic effects of these mechanisms are accounted for at year end (including RENS).

With regard to costs, which are determined periodically on the basis of occurring events, Terna registered a balance of €1.9 million in 2022, compared to €5.9 million in 2021. The overall economic effects of the bonus/penalty mechanisms related to quality of service for 2022, compared with 2021, are shown below.

	(€m)		
QUALITY OF SERVICE	2022	2021	CHANGE
RENS bonuses/(penalties)	23.2	11.6	11.6
<b>Revenue</b>	<b>23.2</b>	<b>11.6</b>	<b>11.6</b>
Mitigation and sharing mechanisms	3.5	5.2	(1.7)
Contributions to the Fund for Exceptional Events	0.4	0.6	(0.2)
Compensation mechanisms for HV users	0.3	0.3	-
Contingent assets	(2.3)	(0.2)	(2.1)
<b>Costs</b>	<b>1.9</b>	<b>5.9</b>	<b>(4.0)</b>
<b>TOTAL</b>	<b>21.3</b>	<b>5.7</b>	<b>15.6</b>



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## ▶ Dispatching of electricity

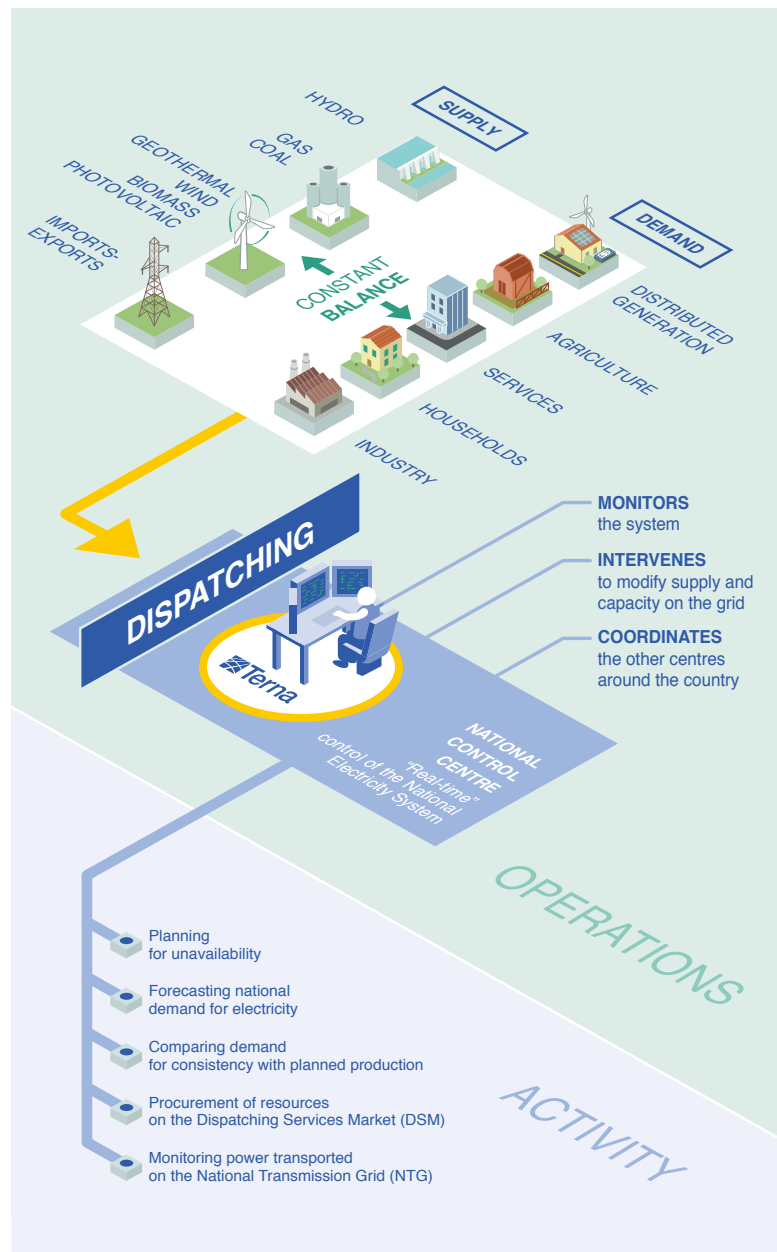
Except in specific and limited circumstances, electricity cannot be stored. Therefore, it is necessary to produce - moment by moment - the amount of energy required by all consumers (households and companies) and to manage its transmission so that supply and demand are always balanced, thus guaranteeing the continuity and security of the electricity supply. Terna manages these energy flows through the grid via dispatching activities.

Dispatching includes planning for the unavailability of the grid and of production plants over different timescales, forecasting national demand for electricity, comparing demand for consistency with planned production in the free energy market (the Power Exchange and over-the-counter contracts), the acquisition of resources for dispatching and monitoring power transfers for all the power lines that make up the grid.

This area of operation also includes management of the **Dispatching Services Market (DSM)**, through which the resources for dispatching services are procured.

“Real-time” control of the National Electricity System is ensured by the **National Control Centre**, the nerve centre for Italy's National Electricity System, which coordinates the other centres around the country, monitors the system and dispatches electricity.

The Centre intervenes, by issuing instructions to producers and Remote Centres, in order to modify supply and capacity on the grid. To avoid the risk of prolonged power outages, it may also intervene in an emergency to reduce demand.



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## Key Dispatching Events in 2022

Once again in 2022, management of the system during lockdown periods was particularly tricky. Indeed, situations characterised by low consumption and high renewable production sometimes occurred, resulting in difficulties in regulating voltage, which was partly due to the smaller number of available thermoelectric plants. Despite this, Terna's Dispatching unit managed the system **to ensure the continuity and security of the country's electricity service at all times**.

**Black start simulations** Black start simulations are needed to check that the electricity system is working properly and to improve its efficiency by ensuring a rapid reboot of the system in the event of a blackout. In 2022, **four live tests** were successfully conducted.

The first test was conducted in March in Sardinia and involved part of the 220kV and 150kV grid, starting from the Taloro hydroelectric production and pumping plant, located in the centre of the island, up to the Sulcis thermoelectric plant (South Sardinia).

In October and November, two different tests were conducted. These involved part of the 380kV grid in Campania in the province of Caserta, starting from the Presenzano hydroelectric production and pumping plant up to the Sparanise thermoelectric plant.

In November, a test was carried out on the 380kV, 220kV and 132kV grid section in the Veneto region, running through the provinces of Belluno, Venice and Treviso, starting from the Soverzene (BL) hydroelectric production and pumping plant up to the Fusina (VE) thermoelectric plant.

**New transmission limits** There are a number of "bottlenecks" on Italy's transmission grid, which have made it necessary to identify "market zones" and set transmission limits. Eliminating these bottlenecks is one of Terna's missions, above all through development of the grid.

In 2021 - through a cross-cutting working group involving more than 200 experts in dispatching, systems engineering, technology, maintenance, operations and territory, planning and regulation - Terna implemented a high-tech project which, via low-capital-intensive measures, enabled transfer of significant benefits to the electricity system by pursuing "rapid" and efficient investment solutions that have less impact on consumers.

The synergy between this type of measure (which does not require authorisation) and the works envisaged in the Development Plan to increase transmission capacity will help to accelerate the achievement of decarbonisation targets thanks to greater integration of renewable sources.

Since January 2021, implementation of these measures has enabled an increase in transport capacity, allowing more power to be transmitted from areas with high renewable production to areas where energy consumption is high. The additional steps taken in 2022 and planned for the following two years will enable an improvement in the secure operation of the NTG, maximising production from plants from non-programmable renewable sources.

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## Electricity market trends

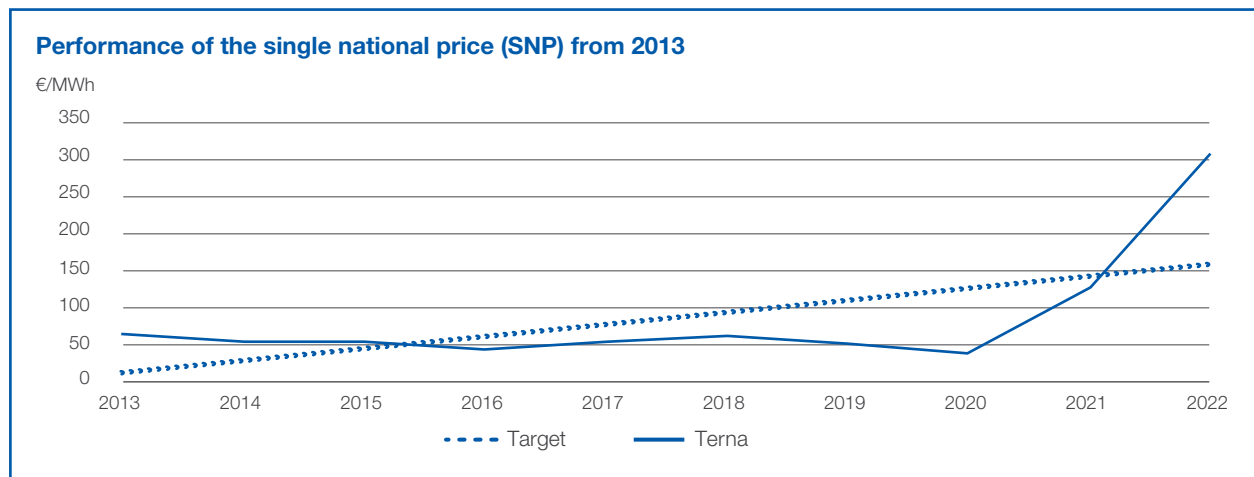
### Electricity cost trends

#### Electricity prices

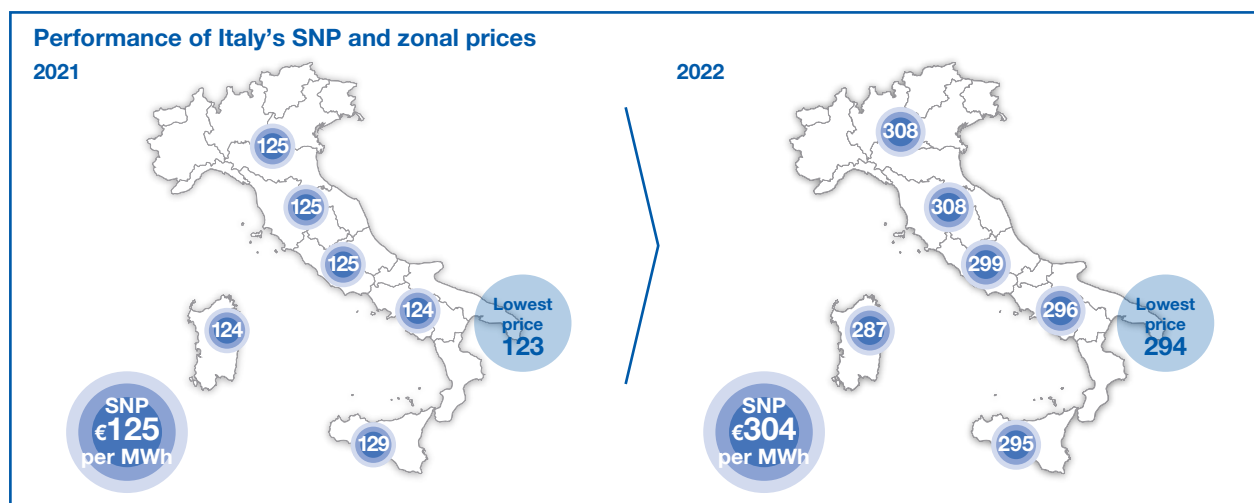
The average hourly price on the Italian Power Exchange (IPEX /SNP<sup>43</sup> – Single National Price) for 2022 is €304 per MWh, up sharply (142%) compared with 2021. This increase primarily reflects the surge in commodity prices, especially gas prices.

The Day Ahead Market, which sets the SNP, is based on supply and demand, although Italy must, by necessity, also take account of its particular geography, with the physical nature of the electricity grid, the widespread nature of its infrastructure and the location of consumption, and the resulting grid congestion. This means that there are a number of "bottlenecks" on the transmission grid, which have made it necessary to identify "market zones" and set transmission limits. Eliminating these bottlenecks is one of Terna's tasks, above all through development of the grid.

The following chart shows the performance of the SNP from 2013 to 2022, highlighting a declining trend until 2020. This trend has radically reversed due to sharp increases in 2021 and 2022, driven by soaring commodity prices, especially the price of gas.



Over the years, prices in the principal zones that make up the Italian electricity market and the Single National Price (SNP) have fallen into line.



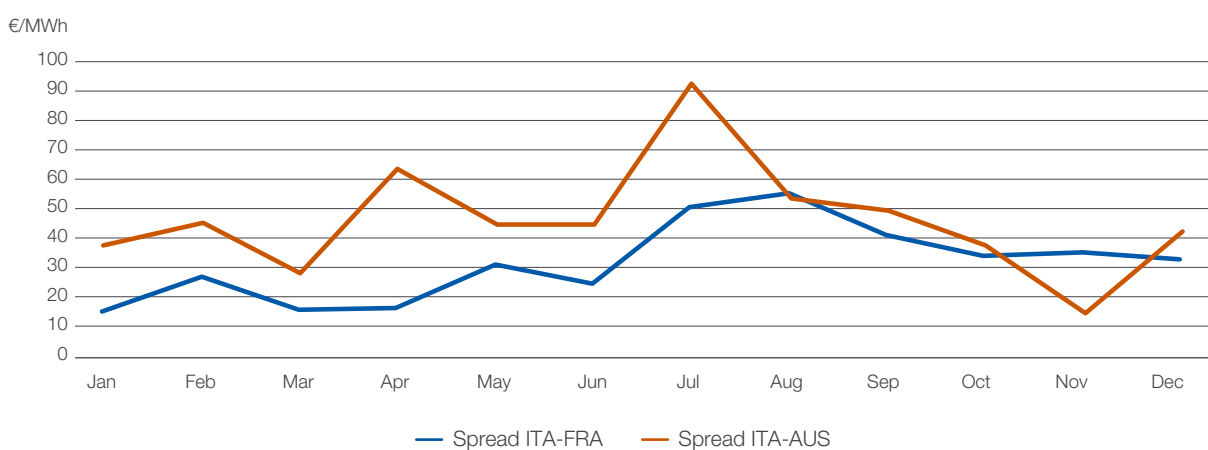
<sup>43</sup> IPEX: Italian Power Exchange; SNP: Single National Price.

### Cross-border trade

Trade with other countries across the northern border in 2022, approximately 40 TWh, is broadly in line with 2021.

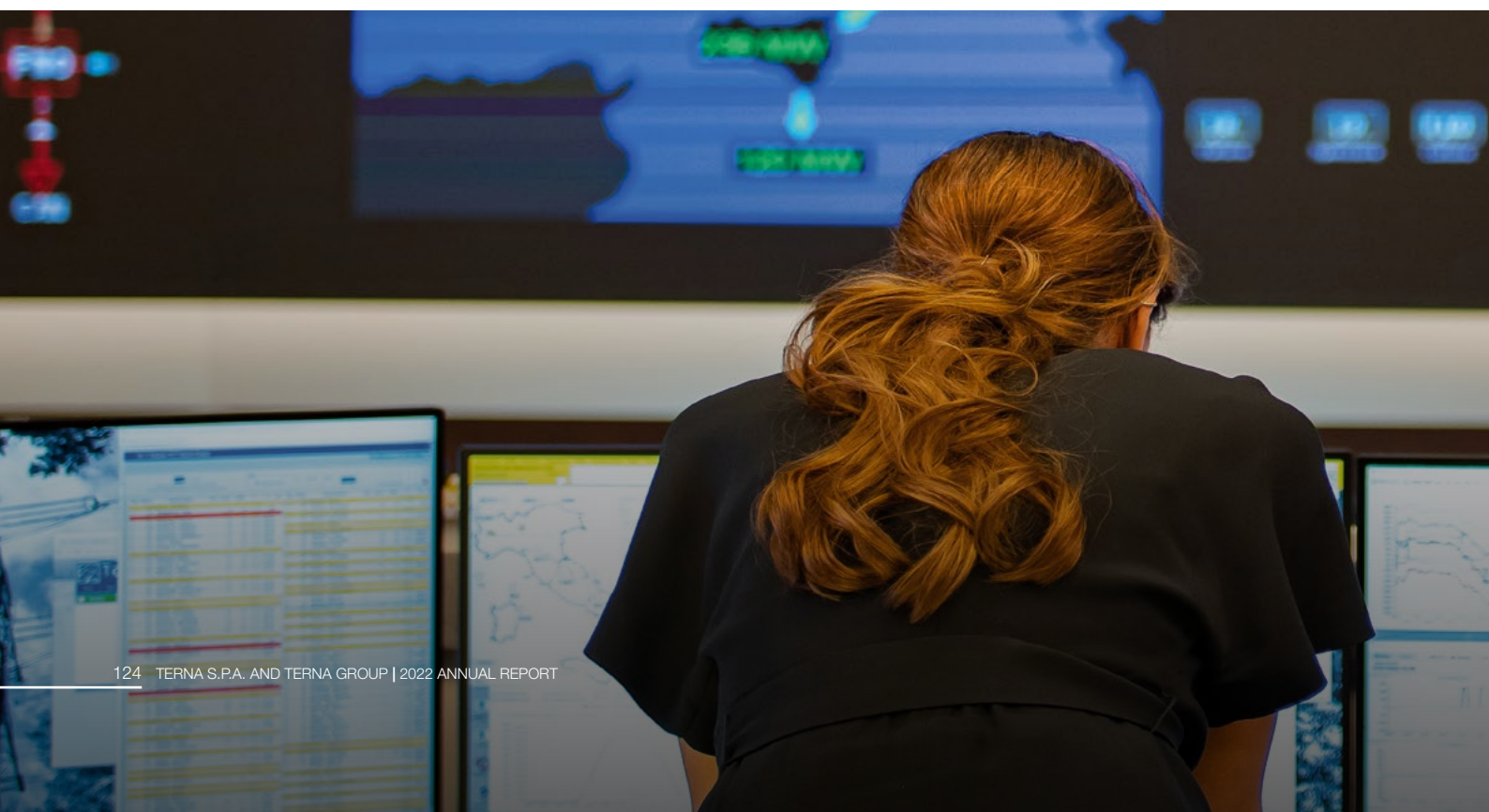
Prices on the French (PNX) and Austrian (EEX) exchanges rose year on year in line with the increase in commodity prices (especially the price of gas).

Monthly spread for energy prices compared with France (PNX) and Germany/Austria (EEX)



Prices in France and Austria also increased substantially in 2022. In particular:

- The French Powernext average annual price was €276 per MWh (up €176 per MWh or 176% compared with the previous year).
- The Austrian price (EEX) registered the same trend as the French price. The average annual price was €261 per MWh (up €162 per MWh or 164% compared with the previous year).



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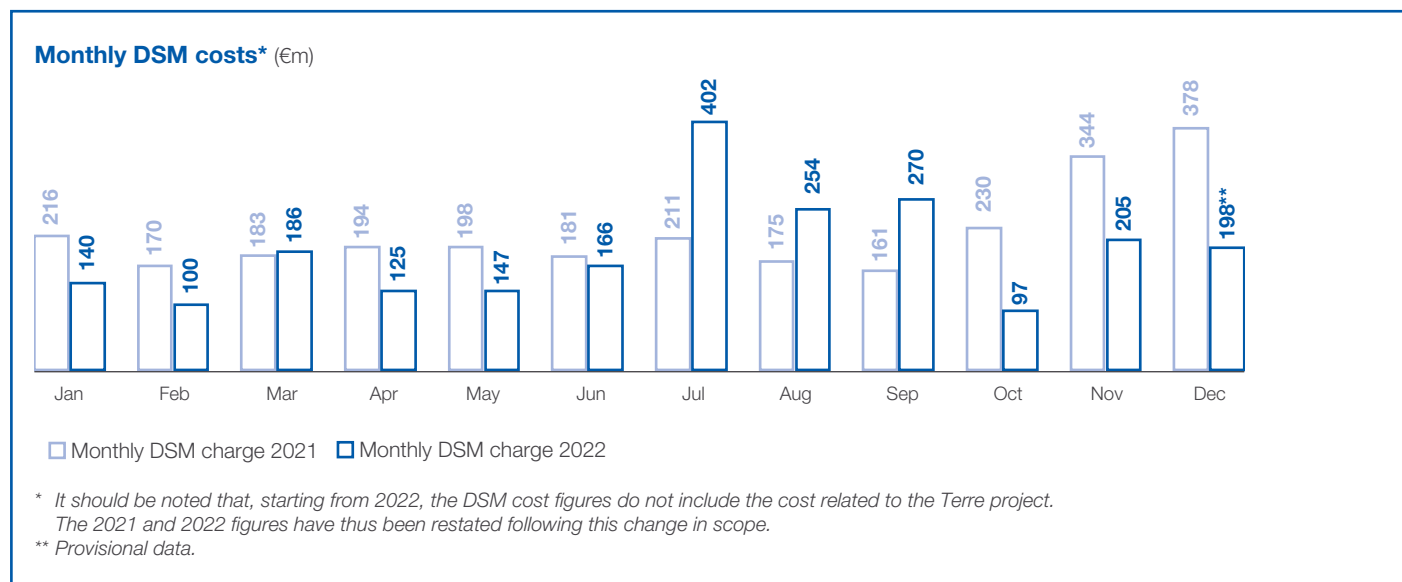
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### Dispatching Services Market (DSM)

The net charge for using the DSM was €2,290 million in 2022 (provisional data), down 13% compared with the same period of the previous year (€2,641 million).

The reduction primarily reflects the fall in the costs of procuring services in all months of 2022 due to a reduction in selections on the Dispatching Service Market due to grid constraints, except in July, August and September when there was an increase in costs compared with the same period of the previous year, reflecting the sharp rise in the price differential. However, the reduction is also due to the efficiency improvements and investment carried out by Terna to cut the cost of the DSM.

Terna procures dispatching resources on the Dispatching Service Market (DSM) to manage and control the system (freeing up intra-zonal congestion, creation of power reserves, real-time balancing) in order to ensure the security and adequacy of the electricity system.



### Cost of procuring resources on the Dispatching Services Market (uplift)

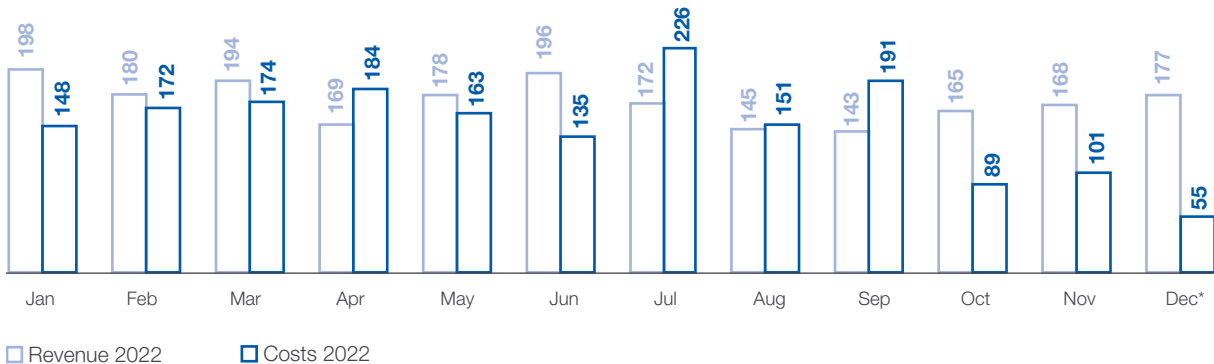
Uplift payments are the tool used by the system to recover the net costs deriving from energy-related items from the end user, including the supply of services and energy to cover system imbalances in the DSM, imbalance costs, congestion revenue and the related coverage (CCT, CCC, CCP and DCT<sup>44</sup>) and the cost of the virtual interconnection (the Interconnector).

ARERA Resolution 111/06 (Title 4) regulates charges for dispatching services and the connected guarantees. Dispatching charges include the cost of procuring resources on the Dispatching Services Market (known as the uplift), pursuant to article 44, as amended.

The charge is invoiced pro-rata to dispatching users based on energy withdrawn, to cover the expected accrued monthly cost and any prior differences.

In 2022, the total uplift was €1,789 million (provisional data), down 24% on the previous year (€2,360 million). The reduction was due to the reduced cost of procuring services, the fall in the consideration due for Goodwill and Change of Structure Tokens<sup>45</sup>, the reduced cost of contracts providing an alternative to essential providers<sup>46</sup> and a sharp rise in congestion revenue in Italian and Overseas market areas<sup>47</sup>, only partly offset by a significant increase in the cost of virtual interconnection services<sup>48</sup>.

#### Performance of revenue and uplift costs (€m)



\* Provisional data.

<sup>44</sup> CCT - Fees for Assignment of Rights of Use of Transmission Capacity;  
 CCC - Contract Covering the Risk of Volatility of the Fee for Assignment of Rights of Use of Transmission Capacity (between zones);  
 CCP - Contract Covering the Risk of Volatility of the Fee for Assignment of Rights of Use of Transmission Capacity (between industrial centres);  
 DCT - Contract Covering the Fee for Assignment of Rights of Use of Transmission Capacity on Foreign Interconnections.

<sup>45</sup> Goodwill and Change of Structure Tokens are payments made to production plants who have the right to receive them when Terna requests them to fire up the plant or change their structure.

<sup>46</sup> These are the costs incurred by Terna for payments to production plants defined as essential for the electricity system, pursuant to Annex A27 of the Grid Code, and who chose the alternative regime described in art 63 of Resolution 111.06.

<sup>47</sup> Congestion revenue is generated when there are differences in the balanced prices in the energy markets in the various market areas.

<sup>48</sup> Virtual interconnection is a net cost: Terna plans, builds and operates new overseas interconnection infrastructure, the cost of which is partly covered by revenue from auctions in which third party finance providers take part and who will then have access to the available transport capacity.



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## Business relations with electricity service operators

In providing the public electricity transmission and dispatching services operated by the Company under concession, Terna maintains business relations with various categories of operator, including:

- dispatching users (producers, wholesalers or end customers) with regard to the provision of dispatching services;
- distribution companies and other private grid operators in relation to transmission and aggregate metering, required with regard to regulate the dispatching service.

As part of dispatching activities, as the sole counterparty, Terna procures the resources needed to meet requirements and to guarantee a reserve margin on the DSM. In 2022, transactions in the DSM amounted to approximately €2.9 billion.

Since 2017, Terna is also responsible for the settlement of amounts due to and from balancing service providers (BSPs) that provide services on the Dispatching Services Market (DSM), as part of pilot projects launched by Terna in accordance with ARERA resolution 300/2017, including the Mixed Enabled Virtual Units (UVAM) project. In particular, as part of the latter project, Terna procured forward balancing resources totalling 494 MW from 16 BSPs.

In addition, for dispatching services purposes, Terna checks the consistency between the final programmes of operators (producers and consumers) with the amounts that have actually been withdrawn from/input into the grid. Any deviations represent so-called "imbalances", the value of which entails invoicing the related energy imbalance prices to the individual parties responsible for the imbalance costs. This is done in order to cover the costs generated for the system as a result of their conduct.

Further categories of operator with whom Terna trades include applicants who have requested connection of their plants to the NTG (producers and consumers) and interruptible users, namely customers who are willing to have their electricity supply suspended. Terna signs contracts with these operators regarding the interruptibility service, which is required for the secure operation of the electricity system, and especially with the aim of mitigating the risk of widespread power outages.

Participants in the interruptibility service numbered 152 in 2022, accounting for 4,539 MW of power. The related annual cost amounts to approximately €0.25 billion.

Since 2022, Terna is responsible for the settlement of amounts due to and from capacity market operators. This mechanism allows Terna to procure capacity, through long-term contracts awarded through competitive auctions, in order to guarantee the adequacy of the system.

The operators participating to the auction have:

- the obligation to offer capacity on energy and service markets at a price not greater than a strike price set by ARERA;
- the right to receive a fixed annual bonus from Terna.

The total cost for the service provided on the capacity market amounted to €1.2 billion in 2022.

### Electricity sector operators in relations with Terna - number of customers

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CUSTOMERS	2022	2021	2020
Interruptible users	152	175	212
Distributors directly connected with the NTG <sup>(1)</sup>	53	55	54
Supply-side dispatching service users (producers and traders)	135	135	136
Demand-side dispatching service users (traders and end users, including the Single Buyer)	188	188	193

<sup>(1)</sup> In addition to licensed distribution companies, the figure includes operators of closed distribution systems for internal user networks directly connected to the NTG and, from 2019, the Autonomous State Corporation for Public Utilities in the Republic of San Marino.

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## Operating results of Regulated Activities

The following table shows a breakdown of the results from the Terna Group's Regulated Activities in 2022 and 2021<sup>49</sup>.

(€m)

	2022	2021	CHANGE
<b>Total regulated revenue</b>	<b>2,542.3</b>	<b>2,253.5</b>	<b>288.8</b>
Tariff revenue and incentives	2,418.6	2,154.8	263.8
- Transmission revenue	1,968.6	2,041.0	(72.4)
- Dispatching, metering and other revenue	450.0	113.8	336.2
Other regulated revenue	56.3	51.8	4.5
Revenue from construction services performed under concession in Italy	67.4	46.9	20.5
<b>Total cost of Regulated Activities</b>	<b>535.3</b>	<b>453.0</b>	<b>82.3</b>
Personnel expenses	266.2	226.9	39.3
External resources	176.8	157.1	19.7
Other	24.9	22.1	2.8
Cost of construction services performed under concession in Italy	67.4	46.9	20.5
<b>EBITDA from Regulated Activities</b>	<b>2,007.0</b>	<b>1,800.5</b>	<b>206.5</b>

**EBITDA from Regulated Activities amounts to €2,007.0 million, an increase of €206.5 million** compared with the figure for the previous year. This primarily reflects the impact on tariff revenue and incentives (up €263.8 million) of the effect of output-based incentive mechanisms, the increase in the regulated asset base during the period, after the decrease reflecting the reduction in the WACC recognised for 2022 (equal to 5%, compared with the previous 5.6%) and the volume effect.

After excluding revenue from construction services performed under concession (up €20.5 million), **revenue from Regulated Activities** is up €268.3 million, primarily reflecting:

- the increase in revenue relating to output-based incentive mechanisms for dispatching, amounting to €334.7 million, reflecting the impact of Resolutions 597/2021 and 132/2022, designed to cut DSM costs, the shortfall in wind production and essential plants (€194.2 million, representing the accrued share of the present value of the incentive due for the period 2022-2024) and Resolution 699/2018, which provided incentives for grid development projects in the three-year period from 2019 to 2021 designed to relieve congestion within market areas and grid constraints due to voltage regulation and improve conditions for essential service provision (€140.5 million, representing the present value of the amount established in Resolution 26/2023, to be collected over three years from 2023);
- reduced transmission revenue (down €72.4 million) as a result of the reduction in the WACC recognised for 2022 (Resolution 614/21) and the volume effect, partly offset by an increase in the regulated base asset and output-based incentives relating to the delivery of additional transmission capacity between market areas (€34.5 million, Resolution 567/2019) net of the incentives recognised in 2021 (down €48.1 million);
- increased revenue in the form of the bonus receivable under the RENS incentive mechanism (up €11.6 million), due primarily to recognition of the portion due on the basis of the estimated overall performance in the 2022-2023 regulatory period;
- increased revenue from connections to the NTG (up €3.3 million) and an increase in compensation received for damage to infrastructure (up €1.7 million);
- recognition, in 2021, of revenue relating to the outcome of the claim for a refund of stamp duty paid on the acquisition of Rete S.r.l. (down €13.4 million).

<sup>49</sup> The Terna Group's operating segments are consistent with the internal control system adopted by the Parent Company, in line with the 2021-2025 Industrial Plan.

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After excluding the cost of construction services performed under concession (up €20.5 million), the **cost of Regulated Activities** is up €61.8 million, primarily reflecting:

- the impact on personnel expenses (up €39.3 million) of an increase in the average workforce and of additional provisions for staff incentive and early retirement schemes, partly offset by the higher amount of capitalised expenses;
- an increase in service costs (up €19.7 million), due to increased activity and new initiatives carried out by the Group;
- a decrease in the costs incurred for quality of service (down €4.0 million), primarily linked to the repayment made to Terna to cover the amount in excess of the threshold paid in 2021 to distribution companies for mitigation services (down €2.7 million, pursuant to Resolution 623/2022) and a reduction in faults and non-postponable unavailability;
- the adjustment to provisions linked to amounts previously set aside in relation to Land Registry Circular 6/2012, which were mainly released in 2021, and administrative charges (a total increase of €8.5 million).



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## Non-regulated Activities:

### Energy market solutions

Non-regulated Activities are designed to support the ecological transition, in keeping with the core business. Terna uses its know-how in the design, engineering, operation and maintenance of complex solutions, including the integration of telecommunications networks, and proprietary systems and RES expertise in the production of cables and transformers. The aim is to serve commercial and industrial customers with the Group's expertise and experience across a wide range of solutions.

The main areas of business in this segment are:

- **Industrial**
- **Connectivity**
- **Energy solutions**
- **Private Interconnectors pursuant to law 99/2009**



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## Industrial

Via two leading companies in their fields, Terna is able to oversee expertise and supplies in two key areas for grid development:

- **Transformers – Tamini Group:** a world leader in the production of industrial transformers and in after-sales service;
- **Terrestrial cables - Brugg Cables Group:** a centre of excellence for research, development and testing in the field of terrestrial cables, the Brugg Group is based in Switzerland and has several overseas subsidiaries.

### Transformers – Tamini Group

Tamini operates in the electromechanical sector and is a leader in the design, production, commercialisation and repair of power transformers for electricity transmission and distribution grids, of industrial transformers for the steel and metals industry and of special transformers for convertors used in electrochemical production.

With over a hundred years of experience, Tamini has a well-established name in Italy and overseas, thanks to its technological and engineering capabilities, combined with the degree of customisation and production flexibility it can offer.

Tamini received orders for transformers worth approximately €203.9 million in 2022, marking a sharp increase of 12.6% compared with the previous year. This is Tamini's best result ever. [Order book](#)

Orders in the Industrial sector amounted to approximately €64.1 million, up 44% compared with 2021. This increase is primarily linked to the award of major contracts in North America, Asia and northern Europe.

Orders in the Power sector amounted to approximately €139.8 million, up 2% compared with 2021. This result is linked to the award of major orders placed by utility companies in Italy, Belgium and Finland.

Orders for Services in 2022 amounted to approximately €15.5 million, an increase of 11% compared with 2021.

The value of factory backlogs, is significantly up compared with the end of 2021 at approximately €174 million (up 29%).

Revenue rose strongly in 2022, up 14.7% compared with 2021, due to the increased value of transformer production. [Results](#)

Several very important items of equipment were also tested, including two 670 MVA and 340 MVA step-up transformers linked to the Capacity Market in Italy, three phase-shifting transformers for TSOs in Austria and Denmark and three 400 MVA transformers for a TSO in Finland, and four rectifier transformers for the United States. In addition, several 400 MVA transformers are under construction for a major TSO in northern Europe.

Tamini continued to be committed to the production of vegetable oil transformers for the Power sector in 2022. The production of three 250 MVA and 400 MVA autotransformers using vegetable oil is in progress at the Legnano plant. A 105 MVA transformer for a major steelworks in Italy was also tested. [Vegetable oil transformers](#)

## Terrestrial cables – Brugg Cables Group

The Brugg group operates in the terrestrial cable sector, producing low through to very high voltage products and specialising in the design, development, construction, installation and maintenance of electrical cables of all voltages and accessories for high and very high-voltage cables.

**Order book** Orders acquired in 2022 amount to approximately CHF224 million (up 14% on 2021). The High Voltage System segment made a major contribution (CHF137 million). The Low Medium Voltage segment also made a significant contribution (CHF54 million), as did the High Voltage Accessories segment (CHF33 million).

Compared with 2021, production of high voltage cables is up 10%, whilst the volume of low and medium voltage cables produced remained stable.

**Results** Revenue for 2022 is up 16.2% on the previous year. However, rising production costs and the postponement of certain projects, together with the strengthening of the Swiss Franc against foreign currencies (especially the Euro and the US Dollar) and the depreciation of metals in stock used for cable production, had a negative impact on margins.

**Operating activities** In the High Voltage Accessories segment, the new Dry Type Outdoor terminal (an outdoor gel-insulated composite terminal) passed all the final tests in accordance with the Terna Group's high standards, and the first terminals are due to be delivered in March 2023. Orders continue to perform extremely well and efforts to grow the market throughout the world are continuing.

The high and very high voltage systems segment saw strong growth in orders. The energy crisis is leading to a significant increase in demand for high voltage systems. In addition, due to the difficulties in procurement, contracts are being awarded well in advance of expectations and this is reflected in a notable increase in the order book. A major 400 kV renewable energy project in Germany was completed. The first major EPC (Engineering, Procurement and Construction) contract in Dubai was also awarded.

The low and medium voltage segment continues to record a high volume of orders. In 2022, prices were also increased to keep pace with the general rise in production costs. This has so far not led to a drop off in orders.

## Connectivity

The Group's nationwide infrastructure is made available to meet the increasingly urgent need for fast and reliable digital connections. Partners are also supported in the development of smart connectivity solutions via the following services: optical fibre use rights, pylon rental and housing and facilities (installation of telecommunications equipment within Terna's already operational facilities).

## Fibre

Via optical fibre use rights, Terna provides customers with access to new infrastructure, which performs better than underground cable standards, in terms of reliability (far fewer faults per year per km) and quality (low attenuation), with significant savings in terms of length compared to terrestrial connections (>20% over a long distance). Since 2017, indefeasible right of use (IRU) has been granted for a total of approximately 32,500 km of fibre, for which Terna provides maintenance and housing servicing for regeneration. The main contracts, which continued to be fulfilled in 2022, are with Open Fiber, Retelit, Fastweb and Eolo. Under these contracts, a total of 1,055 km of fibre were delivered in 2022.

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## Energy solutions

Engineering, procurement and construction (EPC), operation and maintenance (O&M) and digital services. The following activities are covered by these services.

### Smart grids

The provision of turnkey solutions for businesses looking to evaluate, design and integrate renewable energy systems (photovoltaic or wind power), storage systems (batteries) and cogeneration/trigeneration solutions into their production cycle. This involves the production of complex generating, storage, active demand behind the meter, utility scale and advanced plant control systems capable of optimising their operation.

### Renewables - LT Group

The acquisition of LT (October 2021) has led to the creation the first Italian operator in the photovoltaic plant operation & maintenance sector, with approximately 1,000 MWp under management, thus confirming Terna's role as driver and enabler of the energy transition and its constant support for the growth of renewables.

LT S.r.l. is also involved in the design and implementation of the revamping and repowering of existing plants, thereby helping to improve production from Italy's installed power assets and to achieve national energy transition goals. The company is also involved in the construction of new photovoltaic plants for third parties.

Turnover in 2022 amounted to approximately €42.3 million. All lines of business saw significant growth: routine and extraordinary maintenance, revamping and repowering and EPC. The forecast order book for 2023 is in line with projected turnover of more than €95 million.

### Other projects

Under the contract agreed in 2021 with Eni New Energy – Storage per fast reserve, work on the design and construction of an electrochemical storage unit in Assemini (approximately 14 MW) is proceeding. As regards the revamping/repowering contract entered into with EF Solare in 2021, work was completed at five plants during the year, whilst work is still in progress at two other plants.

### High voltage

The following contracts were completed in 2022: the revamp of connection infrastructure for Vetrerie Riunite, the production and supply of 3 STATCOM systems for Acciaierie Venete, completion of a contract for the production of a HV/MV electricity substation to enable Energia Emissioni Zero 4 S.r.l. to connect its wind farm to the NTG. Finally, during the year, work began on the contract with RIVA ACCIAI (signed in 2022) for the turnkey supply of a STATCOM system, whilst work is in progress on the contract with RFI (signed in 2018), with six application contracts signed and 19 installations carried out.

## Private interconnectors pursuant to Law 99/2009

In order to develop a single electricity market by expanding cross-border interconnection capacity, EU legislation has set out guidelines for the creation of interconnections with other countries by entities other than grid operators.

The European guidelines have been introduced into Italian legislation by [Law 99/2009](#), which assigned Terna responsibility for selecting undertakings (the "selected undertakings"), on the basis of public tenders, willing to finance specific interconnectors in exchange for the benefits resulting from a decree granting a third-party access exemption with regard to the transmission capacity provided by the new infrastructure.

The law states that these private backers, in exchange for a commitment to finance such projects, are required to commission Terna to build and operate the interconnectors.

The cross-border interconnectors with Montenegro (completed in December 2019), France (completed in November 2022), Austria (under construction), Switzerland and Slovenia (currently awaiting the necessary consents) are part of this overall project.

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**Italy–Montenegro interconnector project** Terna is responsible for managing routine and special maintenance activities and operating the interconnector in return for an annual fee. The infrastructure was completed on 28 December 2019 and is owned by Monita Interconnector S.r.l., which was sold to the private backers on 17 December 2019.

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**Italy–France interconnector project** The Terna Group is responsible for managing routine and special maintenance activities and operating the interconnector. The infrastructure was completed on 7 November 2022 and is owned by Piemonte Savoia S.r.l., which was sold to the private backers on 4 July 2017, pursuant to Law 99/2009.

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**Italy–Austria interconnector project** The Italy-Austria interconnector (the Reschenpass project) involves construction of a new 220kV AC interconnection between the Glorenza (Italy) and Nauders (Austria) substations. This will consist of 28 km of underground cable, including 26 km on the Italian side, and the necessary upgrade of the domestic grid. The project will increase cross-border interconnection capacity between Italy and Austria by around 300 MW, practically doubling the currently available capacity. The cost of the project is expected to be approximately €80 million.

The sale of Terna S.p.A.'s 100% stake in Resia to Interconnector Energy Italia S.C.p.A. ("IEI"), Consorzio Toscana Energia S.p.A. and VDP Fonderia S.p.A. was completed on 15 September 2021, together with the signature of agency agreements for the construction, operation and maintenance of the Italia-Austria Interconnector in accordance with Law 99/2009.

On 6 May 2021, the European Commission gave the go-ahead for exemption to be granted and, on 17 June 2021, Resia received confirmation of the exemption from the Ministry for Ecological Transition (for capacity of 150 MW for a period of 10 years), following the receipt of clearance from ARERA and the European Commission.

It should be noted that, on 16 March 2020, the exemption process formally began with the special purpose vehicle, Resia, submitting an exemption application to the Ministry for Economic Development. The Ministry then submitted the exemption application to ARERA to enable the regulator to issue its opinion. On 17 November 2020, ARERA granted its approval for the issue of the exemption decree to Resia.

The interconnector is due to enter service in 2023.



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The project involves the development of new transmission lines between Italy and Switzerland, with the aim of increasing interconnection capacity between Italy and Switzerland.

[Italy–Switzerland  
interconnector  
project](#)

The creation of a direct current line is planned, partly in undersea cable, between the substations of Salgareda (IT) and Divača/Beričevo (SL), together with work on upgrading the domestic grids in Italy and in Slovenia. The project is currently awaiting the necessary consents on the Italian side. The expected increase in cross-border capacity of approximately 1 GW will raise the interconnection capacity to more than double the current level.

[Italy–Slovenia  
interconnector  
project](#)

## Operating results of Non-regulated Activities

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The following table shows a breakdown of the results from the Terna Group's Non-regulated Activities in 2022 and 2021<sup>50</sup>.

	(€m)		
	2022	2021	CHANGE
<b>Revenue from Non-regulated activities</b>	<b>421.4</b>	<b>350.9</b>	<b>70.5</b>
Industrial	286.7	242.4	44.3
- <i>Brugg Cables Group</i>	137.4	119.9	17.5
- <i>Tamini Group</i>	149.3	122.5	26.8
Connectivity	34.6	40.5	(5.9)
Energy Solutions	85.8	56.0	29.8
- <i>High voltage</i>	34.2	32.2	2.0
- <i>Smart Grids</i>	51.6	23.8	27.8
Private interconnectors	11.5	9.1	2.4
Other	2.8	2.9	(0.1)
<b>Cost of Non-regulated Activities</b>	<b>363.9</b>	<b>289.1</b>	<b>74.8</b>
<b>EBITDA from Non-regulated Activities</b>	<b>57.5</b>	<b>61.8</b>	<b>(4.3)</b>

**EBITDA from Non-regulated Activities for 2022 amounts to €57.5 million, a reduction of €4.3 million** compared with the previous year. This reflects the lower volume of IRU contracts classified under revenue from Connectivity services (down €7.6 million), partially offset by the increased contribution from the private Italy-France Interconnector (up €2.2 million), essentially following its entry into service in November 2022.

<sup>50</sup> The Terna Group's operating segments are consistent with the internal control system adopted by the Parent Company, in line with the 2021-2025 Industrial Plan.

## International Activities

International markets offer opportunities to leverage the expertise developed in Italy in the role as a TSO in the integration of renewables and the expansion of electricity grids, via the development of transmission infrastructure, driven by growing demand for electricity and a regulatory system that offers access to external operators.

Overseas investment focuses on countries with stable political and regulatory regimes and a need to develop their electricity infrastructure, on occasion in collaboration with international energy companies.

**Overseas initiatives** of interest to the Terna Group are:

**Development and operation of concessions:** this model envisages the acquisition and operation of transmission systems abroad by taking part in international concession and/or secondary market awards;

**Energy solutions:** this includes all high value-added non-traditional activities in the fields of energy storage and smart solutions;

**Technical assistance:** this involves the provision of consulting and technical assistance services regarding a TSO's core activities, as well as the definition and implementation of regulatory and market frameworks in the local energy context;

**Project management:** project management activities enable the Group to leverage its expertise in managing overseas projects and in infrastructure management.

### South America - sale of Latin American assets

As part of overseas initiatives, the plan to extract value from activities in South America proceeded. Launched in the last part of 2021, the plan involves the **sale of up to 100% of the Group's Latin American assets**.

On 29 April 2022, Terna S.p.A., Terna Plus S.r.l. and Terna Chile S.p.A. signed an agreement with CDPQ, a global investment group, for the sale of all their power line assets, extending for approximately 1,200 km, in Brazil, Peru and Uruguay. The value of the assets being sold (the equity value) is more than €265 million. Transaction closing is due to take place in phases, for the most part in the second half of 2022.

On 7 November 2022, the first **transaction closing of the Brazilian companies SPE Santa Maria Transmissora de Energia S.A., SPE Santa Lucia Transmissora de Energia S.A. and SPE Transmissora de Energia Linha Verde II S.A.**, owners of three power lines in Brazil extending for 670 km, was completed. The value of the assets being sold (equity value) is more than €145 million. On 22 December 2022, **transaction closing was finalised for the company Difebal S.A.**, the owner of power line assets in Uruguay extending for 214 km. The value of the assets being sold (equity value) is more than €27 million. Both transactions are in line with the terms of the agreement.

The transactions are consistent with the broader strategy of refocusing the Terna Group's international presence on markets with interesting growth potential and low risk, with particular reference to North America, as already announced in the update of the 2021-2025 Industrial Plan.

In 2022, engineering work and the acquisition of rights and easements for the **SPE Transmissora de Energia Linha Verde I S.A.** project continued. This project involves construction of a 150-km long 500kV power line dubbed the "Governador Valadares-Mutum" in the State of Minas Gerais, which is scheduled to be sold in the second half of 2024.

In **Peru**, the operation and maintenance of the 132-km 138kV power line between Aguaytia and Pucallpa also continued in 2022, following the line's entry into commercial service on 16 May 2021. The company is scheduled to be sold in the first half of 2023.

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## North America

On 10 October 2022, **Terna USA LLC**, a Group company recently established to oversee development activities in North America, Meridiam (an independent investment company) and Boundless Energy (a transmission project development company in the USA) signed a **Joint Development Agreement regarding electricity transmission grid projects to be jointly developed in the United States**. The partnership, which will benefit from the three partners' distinctive skills, will enable them to take advantage of business opportunities relating to the acquisition, development and construction of large onshore and offshore electricity transmission infrastructure projects in the United States. Following signature of the Agreement, the company, **BMT Energy Transmission Development LLC**, was established on 2 November 2022.

## Operating results of International Activities

The following table shows a breakdown of the results from the Terna Group's International Activities in 2022 and 2021<sup>51</sup>.

EBITDA from International Activities for 2022 and 2021 does not include the results generated by the Latin American initiatives involved in the above sale process. As required by IFRS 5, these initiatives are classified under "Profit/(Loss) for the year from discontinued operations and assets held for sale" in the reclassified income statement in the paragraph entitled "The Terna Group's financial review for 2022".

	(€m)		
	2022	2021	CHANGE
Revenue from International Activities	0.8	0.4	0.4
Cost of International Activities	6.1	7.9	(1.8)
<b>EBITDA from International Activities</b>	<b>(5.3)</b>	<b>(7.5)</b>	<b>2.2</b>

**Negative EBITDA from International Activities, amounting to €5.3 million for 2022** essentially reflects the costs incurred by central departments to support overseas initiatives and marks an improvement of €2.2 million compared with the previous year (negative EBITDA of €7.5 million). This primarily reflects the impact on personnel expenses of a reduction in the average workforce following the reorganisation carried out within the Group.

**Discontinued operations and assets held for sale report a net loss of €20.3 million**, marking a deterioration of €7.5 million compared with the previous year. This essentially reflects increased losses and the adjustment to the value of discontinued operations and net assets held for sale, partially offset by the gain resulting from the first two transaction closings for the sale to CDPQ of the Latin American assets, which took place in November and December 2022. Further details are provided in the specific section of the notes to the consolidated financial statements.

<sup>51</sup> The Terna Group's operating segments are consistent with the internal control system adopted by the Parent Company, in line with the 2021-2025 Industrial Plan.

# Financial resources and sustainable finance

The Group's financial management is based on an approach that aims to maximise efficiency and achieve and maintain a solid financial structure, whilst adopting a highly prudent stance towards mitigation of the potential risks.

The key aspects of the resulting financial strategy are:

- **diversification** of the sources of financing, raising funds on both the capital markets and in the form of borrowings from major banks and supranational financial institutions;
- a **balance** between short and medium-term instruments, in keeping with the composition of assets;
- the **proactive management** of debt in order to take advantage of the opportunities offered by the capital markets;
- a commitment to maintaining **high credit ratings**, based on a strong financial position;
- a commitment to **develop sustainable finance** with the aim of embedding the concept of sustainability in the Company's financial strategy;
- **active management of the financial risks** to which the Company is exposed, as set out in more detail in the section, "Risk management".

## Sustainable finance

Fully in line with Terna's strategy, which aims to combine investment and sustainability to drive growth and value creation, it is Terna's ambition to play a leading role in the sustainable finance market. This strategy was also followed in 2022.

The **senior green bonds issued by Terna** at 31 December 2022, under its €9,000,000,000 Euro Medium Term Notes (EMTN) programme amount to €2.6 billion, in addition to the perpetual, subordinated green bonds issued on a standalone basis in February 2022, amounting to €1 billion.

Since 2018 the market has shown a strong appetite for the green bonds issued. Terna successfully launched its first green bond amounting to €750 million in July 2018, launching a further two green issues totalling €750 million in 2019 (the first worth €250 million after reopening the issue announced in July 2018), a green bond issue with a total nominal value of €500 million in 2020 and, in June 2021, a new green bond issue worth €600 million.

These green issues are used to finance or refinance **Eligible Green Projects**. These are projects producing environmental benefits that meet certain criteria listed in the **Green Bond Framework** published by Terna in compliance with the "Green Bond Principles" drawn up by the ICMA (International Capital Market Association) and the EU Taxonomy. Specifically, the net proceeds from the issues will be used to finance:

- projects that aim to increase renewable energy production – for example, infrastructure enabling renewable energy plants to be connected to the national grid or that allow for a larger volume of renewable energy to be injected into the grid;
- projects designed to cut carbon emissions by reducing grid losses – for example, infrastructure designed to boost the efficiency of the electricity transmission grid;
- projects designed to ensure the quality, security and resilience of grid infrastructure;
- projects that aim to reduce land use and protect biodiversity.

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At 31 December 2022, Terna's four green bond issues have been admitted to listing in **Borsa Italiana's ExtraMOT PRO segment**, created to offer institutional and retail investors the opportunity of investing their capital where the proceeds will be applied to environmental and social projects.

Terna agreed **four** three-year **ESG-linked Credit Facilities**, amounting to a total of **€600 million**, on 3 August, 22 September and 11 October 2022. The transactions involved Banca Nazionale del Lavoro S.p.A., CaixaBank S.A., the Italian branch of BNP Paribas S.A., Unicredit S.p.A. and the Milan branches of Crédit Agricole Corporate and Investment Bank and SMBC Bank EU AG.

The rates applied to the ESG-linked Credit Facilities is based on Terna's performance against specific environmental, social and governance (ESG) metrics. The agreed facilities provide Terna with a level of liquidity appropriate to its current rating and confirms the Group's strong commitment to introducing a model that increasingly reinforces the role of sustainability as a strategic driver of value creation for all stakeholders.

The **ESG-linked share buyback programme** to service the Performance Share Plan 2022-2026 was completed on 13 June 2022. Under the programme, Terna has purchased 1.3 million own shares (equal to 0.064% of its share capital) at a total cost of approximately €10 million. The shares purchased are in addition to the approximately 3.1 million own shares already purchased by the Company in 2020 and 2021. In keeping with Terna's commitment to sustainability and social and environmental responsibility, the programme includes a mechanism based on penalties applicable if the Company fails to achieve specific ESG objectives.

On 28 February 2022, Terna agreed a **bilateral ESG-linked Term Loan amounting to €300 million** with Intesa Sanpaolo's IMI Corporate & Investment Banking division, acting as Original Lender and Sustainability Coordinator. The credit facility has a two-year term, with the interest rate linked to Terna's performance against specific environmental, social and governance (ESG) metrics.

On 2 February 2022, Terna successfully launched its **first hybrid green bond with a nominal value of €1 billion**. The non-convertible, perpetual, subordinated green bonds are non-callable for six years and will pay coupon interest of 2.375% until 9 February 2028, the first reset date. After this date, the bonds will pay annual interest equal to the 5-year Euro Mid-Swap rate plus a spread of 212.1 basis points. This will be increased by a further spread of 25 basis points from 9 February 2033 and by an additional 75 basis points from 9 February 2048. The issue, aimed at institutional investors, saw extremely high demand, with applications topping €4 billion and the issue being four times oversubscribed. The high quality of the hybrid bonds and the wide geographical diversification of investors mean that the issue was assigned ratings of "BBB-" by Standard and Poor's, "Ba1" by Moody's and "BBB" by Scope.

Terna also has access to **two sustainability-linked Revolving Credit Facilities** amounting to **€3.15 billion**. The two Revolving Credit Facilities include a mechanism based on bonuses and penalties linked to the achievement of specific ESG objectives.

In July 2021, Terna launched a **three-year Euro Commercial Paper (ECP) programme** worth €1 billion. The commercial papers can be designated "ESG Notes" provided that Terna achieves and maintains a ranking equal to or above Bronze Class in the S&P Sustainability Yearbook for the Electric Utilities sector.

In addition to its inclusion in the main ESG indices, from January 2021, Terna is the first Italian electric utility to join the **Nasdaq Sustainable Bond Network**, the sustainable finance platform operated by Nasdaq that brings together investors, issuers, investment banks and specialist organisations.

Terna continues to be a member of the **CFO Coalition for the SDGs**, which is building on the work of the **CFO Taskforce for the SDGs**, the initiative launched by the UN Global Compact at the end of 2019 to develop sustainable finance and of which Terna was one of the founding members. The Coalition aims to continue to promote sustainability, scale up its global community and follow the example set by the CFOs that founded the Taskforce.

Further confirmation of the commitment to playing an active role in developing sustainable finance, Terna is taking part in the **Corporate Forum for Sustainable Finance**, a network of major European businesses committed to the development of sustainable finance as a means to promote a more sustainable and responsible society.

Finally, Terna, both individually and as a member of the above Corporate Forum on Sustainable Finance, will continuously monitor developments in European legislation, with particular regard to the impact on sustainable finance.

## Further important events

Further **important events** regarding finance in 2022:

- On 8 November 2022, Terna agreed a loan from the **European Investment Bank (EIB)** amounting to **€500 million** and disbursed on 15 December 2022. The loan, which has a term of approximately twenty-two years, will be used to finance the construction and commissioning of the “East” section of the “Tyrrhenian Link” project that will connect Sicily with Campania. The loan is the first tranche of a total amount of €1.9 billion made available by the EIB to finance the above project.
- Under the Company's Euro Medium Term Notes (EMTN) programme, on 15 September 2022, Terna launched **a euro-denominated fixed rate bond issue** in the form of a private placement, amounting to **€100 million**. The bonds have a term of five years, pay annual coupon interest of 3.44% and were issued at par, with a spread of 91 basis points over the midswap rate. The securities have been admitted to trading on the Luxembourg Stock Exchange.
- On 8 June 2022, Terna S.p.A. **renewed its Euro Medium Term Note (EMTN) Programme**, which has a maximum value of €9,000,000,000. The programme has been assigned ratings of “BBB+/A-2” by S&P, “(P)Baa2/(P)P-2” by Moody's and “A-/S-1” by Scope.

Debt is described in detail in the section, “The Terna Group's financial review for 2022”.

Terna adopts a dynamic approach to managing the various forms of **financial risk**, including **market risk** (interest rate, exchange rate and inflation risk), **liquidity risk** and **credit risk**. This approach includes constant monitoring of the financial markets, in order to carry out planned hedging operations under favourable market conditions, but also to take advantage of opportunities to improve existing hedges, when changes in market conditions make previous hedges unsuitable or excessively costly.

Further details are provided in the notes to the consolidated financial statements and to the Parent Company's separate financial statements.

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## Ratings

	SHORT-TERM	MEDIUM/LONG-TERM	OUTLOOK
<b>Terna S.p.A.</b>			
Standard & Poor's	A-2	BBB+	Stable
Moody's	Prime-2	Baa2	Negative
<b>Italian state</b>			
Standard & Poor's	A-2	BBB	Stable
Moody's	Prime-3	Baa3	Negative

On **29 July and 9 August 2022**, S&P and Moody's reaffirmed Terna's long-term ratings of BBB+ and Baa2, one notch above Italy's sovereign rating. Moody's has also affirmed the short-term rating of P-2 and its rating of subordinated debt as Ba1. The two agencies have also revised Terna's outlook, downgrading it from positive to stable and from stable to negative, following a downgrade of the sovereign outlook for Italy.

At the end of September, Terna requested Scope Ratings to withdraw its ratings of the Group in keeping with the Group's long-term strategy of rationalising the resources dedicated to rating activity to make it more efficient.



# The Terna Group's financial review for 2022

## Introduction

The Annual Report for 2022 has been prepared in accordance with the requirements of art. 154-ter of Legislative Decree 58/98 introduced by Legislative Decree 195 of 6 November 2007 (the "Transparency Decree"), as amended by Legislative Decree 27 of 27 January 2010.

As required by Legislative Decree 38 of 28 February 2005 and EEC Regulation 1606/2002, the financial statements of the parent company Terna S.p.A. and the consolidated financial statements of the Terna Group for the year ended 31 December 2022 were prepared in compliance with the International Financial Reporting Standards (IFRS) issued by the International Accounting Standards Board and endorsed by the European Commission (hereinafter IFRS).

In compliance with the provisions of art. 2364 of the Italian Civil Code and art. 9.2 of the Company's Articles of Association, the Board of Directors has decided to call an Annual General Meeting of shareholders within 180 days of the end of the annual reporting period, given that Terna S.p.A. is a company required to prepare consolidated financial statements.

## Basis of presentation

The measurement and recognition criteria applied in this Annual Report are consistent with those adopted in the consolidated financial statements for the year ended 31 December 2021.

In order to present the performance of the Terna Group and Terna S.p.A. and to analyse the financial positions, separate reclassified statements have been prepared. These differ from the statements required by the EU-IFRS adopted and described in the consolidated and separate financial statements for the year ended 31 December 2022.

These reclassified statements contain alternative performance indicators, which differ from those resulting directly from the separate and consolidated financial statements. Management considers these indicators to be useful in assessing the performances of the Group and of Terna S.p.A. and representative of the business's operating results and financial position.

In line with the guidance provided by ESMA/2015/1415, the criteria used in constructing these indicators are described in specific notes, reconciling them with the amounts presented in the consolidated and separate financial statements. The notes are contained in an annex to this report on operations.

Given that the requirements of IFRS 5 have been met, the overall results for 2022 and 2021 attributable to the South American subsidiaries included in the planned sale of assets have been classified in the item "Profit/(Loss) for the year from discontinued operations and assets held for sale" in the Group's reclassified income statement. Likewise, the attributable assets and liabilities at 31 December 2022 and 31 December 2021 have been reclassified to the item "Discontinued operations and net assets held for sale" in the Group's reclassified statement of financial position.

## Scope of consolidation

The following changes in the structure of the Group have taken place with respect to 31 December 2021:

- the US-registered company, Terna USA LLC., a wholly owned subsidiary of Terna Plus S.r.l., was established on 2 August 2022. The company is responsible for overseeing development of the business in North America;



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- the US-registered company, BMT Energy Transmission Development LLC, 40% owned by the subsidiary, Terna USA LLC, with the remaining shares held by non-controlling shareholders, was established on 2 November 2022;
- Terna Forward S.r.l., engaged in the development of new technological solutions for use by the Terna Group and a wholly owned subsidiary of the parent Company, Terna S.p.A., was established on 11 November 2022;
- the voluntary liquidation of PI.SA. 2 S.r.l., which began on 10 December 2021, was completed on 27 January 2022;
- the first transaction closing for the sale to CDPQ of the Brazilian companies, SPE Transmissora de Energia Linha Verde II S.A., SPE Santa Lucia Transmissora de Energia S.A. and SPE Santa Maria Transmissora de Energia S.A., was completed on 7 November 2022. From this date, the companies are no longer a part of the Terna Group;
- the second transaction closing for the sale to CDPQ of Difebal S.A. was completed on 22 December 2022. From this date, the company is no longer a part of the Terna Group.



## The Group's reclassified income statement

The Terna Group's operating results for the year ended 31 December 2022, compared with those for the previous year, are summarised in the following reclassified income statement, obtained by reclassifying amounts in the statutory consolidated income statement.

	2022	2021	CHANGE	% CHANGE
<b>TOTAL REVENUE</b>	<b>2,964.5</b>	<b>2,604.8</b>	<b>359.7</b>	<b>13.8%</b>
- Regulated revenue	2,542.3	2,253.5	288.8	12.8%
<i>of which Revenue from construction services performed under concession</i>	67.4	46.9	20.5	43.7%
- Non-Regulated revenue	421.4	350.9	70.5	20.1%
- International revenue	0.8	0.4	0.4	100.0%
<b>TOTAL OPERATING COSTS</b>	<b>905.3</b>	<b>750.0</b>	<b>155.3</b>	<b>20.7%</b>
- Personnel expenses	341.5	289.0	52.5	18.2%
- Cost of services, leases and rentals	222.6	187.6	35.0	18.7%
- Materials	241.3	195.5	45.8	23.4%
- Other costs	30.6	25.1	5.5	21.9%
- Quality of service	1.9	5.9	(4.0)	(67.8%)
- Cost of construction services performed under concession	67.4	46.9	20.5	43.7%
<b>GROSS OPERATING PROFIT (EBITDA)</b>	<b>2,059.2</b>	<b>1,854.8</b>	<b>204.4</b>	<b>11.0%</b>
- Amortisation, depreciation and impairment losses	725.7	654.4	71.3	10.9%
<b>OPERATING PROFIT (EBIT)</b>	<b>1,333.5</b>	<b>1,200.4</b>	<b>133.1</b>	<b>11.1%</b>
- Net financial income/(expenses)	(100.1)	(78.9)	(21.2)	26.9%
<b>PROFIT/(LOSS) BEFORE TAX</b>	<b>1,233.4</b>	<b>1,121.5</b>	<b>111.9</b>	<b>10.0%</b>
- Income tax expense for the year	355.4	317.9	37.5	11.8%
<b>PROFIT/(LOSS) FOR THE YEAR FROM CONTINUING OPERATIONS</b>	<b>878.0</b>	<b>803.6</b>	<b>74.4</b>	<b>9.3%</b>
- Profit/(Loss) for the year from discontinued operations and assets held for sale	(20.3)	(12.8)	(7.5)	58.6%
<b>PROFIT FOR THE YEAR</b>	<b>857.7</b>	<b>790.8</b>	<b>66.9</b>	<b>8.5%</b>
- Profit/(Loss) attributable to non-controlling interests	0.7	1.4	(0.7)	(50.0%)
<b>PROFIT FOR THE YEAR ATTRIBUTABLE TO OWNERS OF THE PARENT</b>	<b>857.0</b>	<b>789.4</b>	<b>67.6</b>	<b>8.6%</b>

	2022	2021	CHANGE
<b>EBITDA BY OPERATING SEGMENT</b>			
Regulated Activities	2,007.0	1,800.5	206.5
Non-regulated Activities	57.5	61.8	(4.3)
International Activities	(5.3)	(7.5)	2.2
<b>EBITDA</b>	<b>2,059.2</b>	<b>1,854.8</b>	<b>204.4</b>

**Gross operating profit (EBITDA)** for the year amounts to **€2,059.2 million**, up €204.4 million compared with the €1,854.8 million of 2021. This reflects the improved result from Regulated Activities.

## Revenue

	(€m)		
	2022	2021	CHANGE
<b>REGULATED ACTIVITIES</b>			
Tariff revenue and incentives	2,418.6	2,154.8	263.8
Other regulated revenue	56.3	51.8	4.5
Revenue from construction services performed under concession in Italy	67.4	46.9	20.5
<b>TOTAL</b>	<b>2,542.3</b>	<b>2,253.5</b>	<b>288.8</b>

After excluding revenue from construction services performed under concession (up €20.5 million), revenue from **Regulated Activities** is up €268.3 million, due primarily to the greater effect of output-based incentive mechanisms and the increase in the regulated asset base during the period, after the reduction in WACC recognised for 2022.

	(€m)		
	2022	2021	CHANGE
<b>NON-REGULATED ACTIVITIES</b>			
Industrial	286.7	242.4	44.3
Services for third parties (Connectivity, Energy Solutions, other)	123.2	99.4	23.8
Private interconnectors	11.5	9.1	2.4
<b>TOTAL</b>	<b>421.4</b>	<b>350.9</b>	<b>70.5</b>

The increase in revenue from **Non-regulated Activities**, amounting to €70.5 million, primarily reflects increased revenue from Energy Solutions (up €29.8 million), which benefitted from the contribution from the LT Group (acquired in October 2021), totalling €19.6 million, and an increase in the contributions from the Industrial segment, with revenue from the Tamini Group up €26.8 million and from the Brugg Cables Group up €17.5 million.

Revenue from **International Activities** is classified in the "Profit/(Loss) for the year from discontinued operations and assets held for sale", in application of IFRS 5.

## Costs

After excluding the cost of construction services performed under concession (up €20.5 million), **operating costs** are up €134.8 million compared with the previous year. This broadly reflects the cost of procuring raw materials and semi-finished goods incurred by the Brugg Cables Group and the Tamini Group (up €20.6 million and €18.1 million, respectively), the contribution from the LT Group (up €22.3 million), increased personnel expenses (up €52.5 million), primarily due to an increase in the workforce and net provisions for incentives and early retirements, and an increase in service costs (up €20.2 million), due to increased activity and new initiatives carried out by the Group.

**Amortisation, depreciation and impairment losses** for the year amount to €725.7 million, an increase of €71.3 million compared with 2021, primarily due to the entry into service of new infrastructure and an increase in impairment losses on assets recognised during the year (up €6.7 million).

Operating profit (**EBIT**), after amortisation, depreciation and impairment losses, amounts to **€1,333.5 million**, compared with €1,200.4 million for 2021 (up 11.1%).

**Net financial expenses** for the year total €100.1 million, an increase of €21.2 million compared with the €78.9 million of 2021. This is primarily due to rising inflation, partially offset an increase in capitalised financial expenses.

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After net financial expenses, **profit before tax** amounts to **€1,233.4 million**, an increase of €111.9 million compared with the previous year (up 10.0%).

**Income tax expense** for the year totals €355.4 million, an increase of €37.5 million (11.8%), essentially due to the increase in pre-tax profit and the greater amount of contingent assets recognised in the previous year. The resulting tax rate of 28.8% compares with a rate of 28.3% for 2021.

The **profit from continuing operations** amounts to **€878.0 million**, an increase of €74.4 million (9.3%) compared with the €803.6 million of 2021.

The **loss from discontinued operations and assets held for sale**, totalling €20.3 million, has deteriorated €7.5 million compared with the previous year. This essentially reflects increased losses and the adjustment to the value of discontinued operations and net assets held for sale, partially offset by the gain resulting from the first two transaction closings for the sale to CDPQ of the Latin American assets, which took place in November and December 2022.

**Profit for the year** amounts to **€857.7 million**, compared with €790.8 million for 2021 (up 8.5%).

**Profit for the year attributable to owners of the Parent** (after excluding the share attributable to non-controlling interests) amounts to **€857.0 million**, up €67.6 million (8.6%) compared with the €789.4 million of 2021.

## Cash flow

Operating cash flow for 2022 was used entirely to finance investing activities. The impact on working capital of movements in trading assets and liabilities compared with 2021 and repayment of a bond issue during the year (replaced by the hybrid green bond issued on 2 February 2022 and worth €1 billion, accounted for in equity), have resulted in a reduction in net debt.

	(€m)	
	CASH FLOW 2022	CASH FLOW 2021
- Profit for the year	857.7	790.8
- Amortisation, depreciation and impairment losses	725.7	654.4
- Net change in provisions	19.8	(72.9)
- Net losses/(gains) on sale of assets	(6.9)	(13.7)
<b>Operating cash flow</b>	<b>1,596.3</b>	<b>1,358.6</b>
- Change in net working capital	1,024.8	(227.6)
- Other changes in property, plant and equipment and intangible assets	35.7	42.6
- Change in investments	2.4	(0.4)
- Change in financial assets	(131.2)	128.9
<b>Cash flow from operating activities</b>	<b>2,528.0</b>	<b>1,302.1</b>
- Total capital expenditure	(1,756.8)	(1,520.7)
<b>Free cash flow</b>	<b>771.2</b>	<b>(218.6)</b>
<b>Net assets held for sale</b>	<b>56.6</b>	<b>(117.7)</b>
- Dividends paid to the Parent Company's shareholders	(601.0)	(556.4)
- Cash flow hedge reserve after taxation and other movements in equity attributable to owners of the Parent	1,204.1	79.1
- Other movements in equity attributable to non-controlling interests	(4.7)	(16.3)
<b>Change in net debt</b>	<b>1,426.2</b>	<b>(829.9)</b>

## The Group's reclassified statement of financial position

The Terna Group's financial position at 31 December 2022 and 31 December 2021 is summarised below in the reclassified statement of financial position, obtained by reclassifying amounts in the statutory consolidated statement of financial position.

	AT 31 DECEMBER 2022	AT 31 DECEMBER 2021	CHANGE
			(€m)
<b>Total net non-current assets</b>	<b>17,485.3</b>	<b>16,352.9</b>	<b>1,132.4</b>
- Intangible assets and goodwill	775.8	656.5	119.3
- Property, plant and equipment	16,200.9	15,316.6	884.3
- Financial assets	508.6	379.8	128.8
<b>Total net working capital</b>	<b>(2,732.8)</b>	<b>(1,706.7)</b>	<b>(1,026.1)</b>
- Net energy-related pass-through payables	(1,332.6)	(209.1)	(1,123.5)
- Net receivables resulting from Regulated Activities	778.7	448.4	330.3
- Net trade payables	(775.5)	(737.5)	(38.0)
- Net tax liabilities	(50.5)	(50.6)	0.1
- Other net liabilities	(1,352.9)	(1,157.9)	(195.0)
<b>Gross invested capital</b>	<b>14,752.5</b>	<b>14,646.2</b>	<b>106.3</b>
Sundry provisions	(68.2)	(48.4)	(19.8)
<b>Net invested capital</b>	<b>14,684.3</b>	<b>14,597.8</b>	<b>86.5</b>
<b>Net assets held for sale</b>	<b>61.1</b>	<b>117.7</b>	<b>(56.6)</b>
<b>TOTAL NET INVESTED CAPITAL</b>	<b>14,745.4</b>	<b>14,715.5</b>	<b>29.9</b>
<b>Equity attributable to owners of the Parent</b>	<b>6,142.0</b>	<b>4,681.9</b>	<b>1,460.1</b>
<b>Equity attributable to non-controlling interests</b>	<b>27.1</b>	<b>31.1</b>	<b>(4.0)</b>
<b>Net debt</b>	<b>8,576.3</b>	<b>10,002.5</b>	<b>(1,426.2)</b>
<b>TOTAL</b>	<b>14,745.4</b>	<b>14,715.5</b>	<b>29.9</b>

The €1,132.4 million increase in **net non-current assets** compared with 31 December 2021 primarily reflects a combination of the following:

- total capital expenditure of €1,756.8 million, as described in detail in the section on "Regulated Activities";
- an increase of €128.8 million in financial assets, mainly due to the purchase, in September 2022, of Italian Government bonds ("BTP") with a notional value of €100.0 million, maturing in May 2025 and paying a coupon of 1.4% (€98.7 million at 31 December 2022), an increase in guarantee deposits received from operators participating in the capacity market in accordance with Resolution 98/2011/R/eel, as amended (up €38.1 million) and an increase in the Interconnector Guarantee Fund, set up to fund investment in interconnections by art. 32 of Law 99/09 (up €19.6 million), partially offset by the adjustment to benefit plan assets for the employees of Brugg Cables (down €21.4 million);
- amortisation and depreciation for the year, totalling €717.4 million;
- other movements during the year in "Property, plant and equipment" and "Intangible assets and goodwill", resulting in a decrease of €22.2 million. This includes grants related to assets (primarily in relation to projects financed by the Ministry for Economic Development and the EU and the re-routing of power lines at the request of third parties) and disposals and impairment losses resulting in a reduction of €13.6 million.

The Terna Group's **total capital expenditure** in 2022, amounting to **€1,756.8 million**, is up **15.5%** compared with the €1,520.7 million of 2021.

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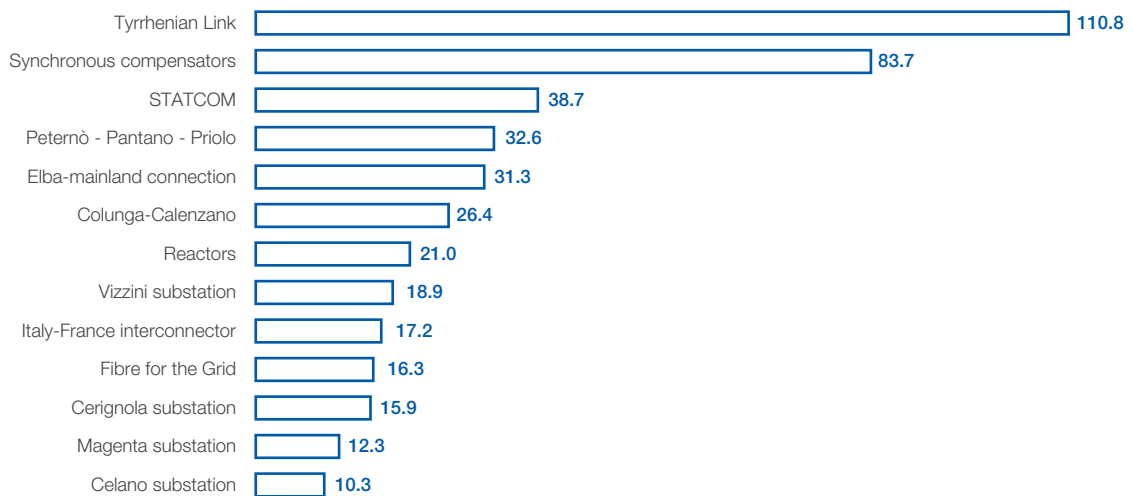
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**Main investment in the NTG\*** (€m)



\* Amounts include financial expenses.

**Net working capital (net current liabilities)** of €2,732.8 million resulted in a cash inflow of €1,026.1 million compared with 31 December 2021. This reflects the combined effect of:

**Cash inflows**

- an increase of €1,123.5 million in **net energy-related pass-through payables**, primarily linked to the combined effect of:
  - a reduction in net receivables (€800.2 million) linked to the Uplift component receivable in return for the procurement of energy on the Dispatching Services Market, reflecting a sharp decrease in the cost of energy for dispatching purposes, above in DSM costs (a total reduction in payables of €254.8 million);
  - an increase in net payables relating to essential plants for the security of the electricity system - UESS (€459.3 million) reflecting a reduction in amounts collected to cover the costs awarded to owners of the plants by ARERA in 2022;
  - a reduction in amounts payable in connection with capacity payments (€44.1 million) following the launch of the Capacity Market from 1 January 2022 (payables at the end of the year of €160.8 million);
- an increase in **other net liabilities** of €195.0 million, primarily due to an increase in guarantee deposits received from operators participating in the capacity market and from electricity market operators to guarantee the obligations undertaken regarding dispatching and virtual interconnection contracts (up €38.1 million and €53.9 million, respectively), an increase in prepayments received from the backers of the private interconnectors pursuant to Law 99/2009 (up €34.2 million, essentially in relation to the Italy-France Interconnector), and an increase in grants related to assets received from third parties (€60.5 million);
- an increase of €38.0 million in **net trade payables**, largely due to the increase in capital expenditure towards the end of the year.

#### Cash outflows

- an increase in **net receivables resulting from Regulated Activities** of €330.3 million. After the factoring transactions carried out at the end of 2021 (€40 million), the increase of €290.2 million primarily reflects a combination of the following:
  - the DSM incentive introduced by Resolution 597/2021: recognition of the annual bonus of €194.2 million relating to the three-year incentive scheme (2022-2024) designed to cut DSM costs, the shortfall in wind production and essential plants;
  - intrazonal incentives introduced by Resolution 699/2018: recognition of a receivable of €140.5 million;
  - interzonal incentives introduced by Resolution 567/2019 (articles 44 and 46 of annex A): collection from the CSEA, at the end of February, of the amount receivable for the efficiency bonus recognised at the end of 2021 (€40 million).

**Gross invested capital** thus amounts to €14,752.5 million, marking an increase of €106.3 million compared with 31 December 2021.

**Sundry provisions** are up €19.8 million, primarily due to:

- the net release of deferred tax assets (up €25.6 million), primarily due to the effect on taxation of movements in derivative financial instruments held by the Group, amortisation and depreciation and movements in provisions for risks and charges;
- net provisions for early retirement incentives (up €4.9 million) and staff incentives (up €2.3 million), after the change in provisions for employee benefits (down €12.4 million, broadly due to a change in the discount rate).

**Net assets held for sale**, totalling €61.1 million at 31 December 2022, are down €56.6 million compared with 31 December 2021, primarily due to the first two transaction closings for the sale to CDPQ of the Latin American assets, which took place in November and December 2022.

**Total net invested capital**, including net assets held for sale, amounts to €14,745.4 million, marking an increase of €29.9 million compared with 31 December 2021. This is financed by equity attributable to owners of the Parent, totalling €6,142.0 million (up €1,460.1 million compared with the €4,681.9 million of 31 December 2021, primarily due to recognition of the reserve for the hybrid green bonds issued, amounting to €989.0 million and accounted for in equity), equity attributable to non-controlling interests of €27.1 million (€31.1 million at 31 December 2021) and net debt of €8,567.3 million (down €1,426.2 million compared with the €10,002.5 million of 31 December 2021).

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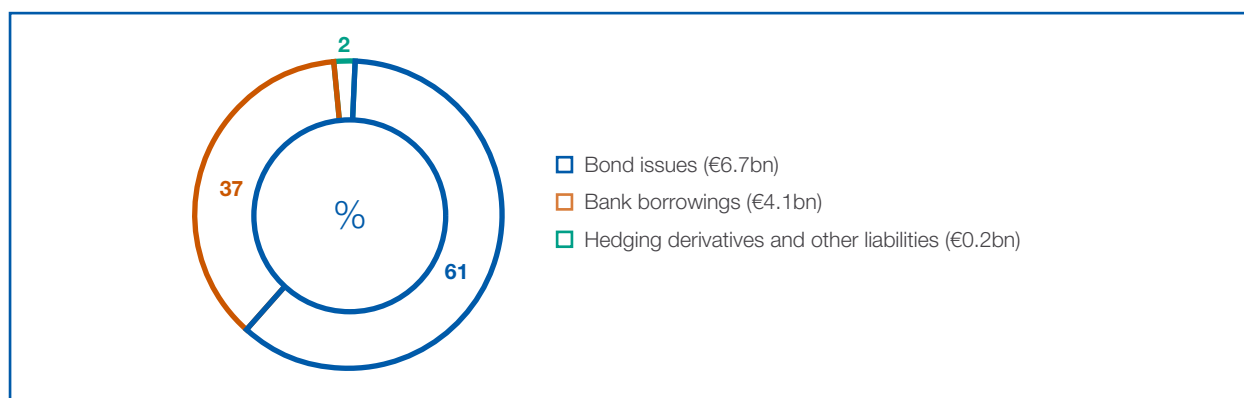
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# Debt

## The Group's financial policy and gross debt

The Terna Group's financial management is based on an approach that aims to maximise efficiency and achieve and maintain a solid financial structure, whilst adopting a highly prudent stance towards mitigation of the potential financial risks. The key aspects of the Group's financial policy are diversification of the sources of funding, a balance between short- and medium/long-term forms of debt and the proactive management of debt.

**Gross debt** at 31 December 2022 amounts to approximately **€11 billion**, consisting of approximately €7 billion in the form of bond issues and approximately €4 billion in bank borrowings. The average term to maturity of debt, 87% of which is fixed rate, is approximately 5 years.



Bonds have been issued in the form of both public and private placements under the €9 billion Euro Medium Term Notes (EMTN) Programme (in which a large number of Italian and overseas banks participate), in addition to a stand-alone issue of €800 million dating back to 2004. Focused specifically on qualified investors and listed on the Luxembourg Stock Exchange, Terna's bonds have a very diverse investor base, in terms of both sector and geographical profile.

The main provider of Terna's bank loans is the European Investment Bank (EIB). Total borrowings from the EIB at 31 December 2022 amount to approximately €2.6 billion. Thanks to its strong credit ratings, Terna is able to obtain financing from banks on extremely good terms, as shown by the €1 billion hybrid green bond issue carried out in February 2022, the issue of fixed rate bonds with a nominal value of €100 million, in the form of a private placement, in September 2022 and the amount raised in the form of bank borrowings. In this regard, a total of €800 million in loans from the EIB was disbursed in 2022 (including €300 million under a facility agreed in 2021 and €500 million under a facility agreed in 2022), whilst a further €1 billion in bank facilities was also disbursed. Finally, Terna also has access to two committed revolving credit facilities, amounting to approximately €3.2 billion.

	(€m)				
2021	NET DEBT	EBITDA	NET DEBT/EBITDA	NET DEBT/EV	RATING S&P
TERNA	10,003	1,855	5.4	41%	BBB+
RED	6,498	1,515	3.8	36%	A-
REN	2,367	472	5.1	58%	BBB
SNAM	14,021	2,243	6.3	45%	BBB+
ENAGAS	4,319	678	4.8	44%	BBB
	<b>7,425</b>	<b>1,356</b>	<b>5.1</b>	<b>45%</b>	

Above the average for the peer group

Below or equal to the average for the peer group

## Net debt

The Group's net debt at 31 December 2022 amounts to €8,576.3 million, marking a reduction of €1,426.2 million compared with 31 December 2021.

	AT 31 DECEMBER 2022	AT 31 DECEMBER 2021	CHANGE
(€m)			
<b>NET DEBT (BY TERM TO MATURITY)</b>			
<b>Total medium/long-term debt</b>	<b>8,588.4</b>	<b>8,917.1</b>	<b>(328.7)</b>
- Bond issues	5,078.9	6,925.6	(1,846.7)
- Borrowings	3,337.8	1,909.4	1,428.4
- Derivative financial instruments	171.7	82.1	89.6
<b>Total short-term debt/ (funds)</b>	<b>(12.1)</b>	<b>1,085.4</b>	<b>(1,097.5)</b>
- Bond issues (current portions)	1,658.8	999.9	658.9
- Short-term borrowings	444.1	1,947.0	(1,502.9)
- Borrowings (current portions)	250.5	640.1	(389.6)
- Other current financial liabilities net	35.8	23.6	12.2
- Derivative financial instruments	0.6	0.1	0.5
- Financial assets	(246.8)	(958.5)	711.7
- Cash and cash equivalents	(2,155.1)	(1,566.8)	(588.3)
<b>Total net debt</b>	<b>8,576.3</b>	<b>10,002.5</b>	<b>(1,426.2)</b>
<b>NET DEBT (BY TYPE OF INSTRUMENT)</b>			
- Bond issues	6,737.7	7,925.5	(1,187.8)
- Borrowings	3,588.3	2,549.5	1,038.8
- Short-term borrowings	444.1	1,947.0	(1,502.9)
- Derivative financial instruments	172.3	82.2	90.1
- Other financial liabilities net	35.8	23.6	12.2
<b>GROSS DEBT</b>	<b>10,978.2</b>	<b>12,527.8</b>	<b>(1,549.6)</b>
- Financial assets	(246.8)	(958.5)	711.7
- Cash and cash equivalents	(2,155.1)	(1,566.8)	(588.3)
<b>Total net debt</b>	<b>8,576.3</b>	<b>10,002.5</b>	<b>(1,426.2)</b>
<b>Net debt attributable to net assets held for sale</b>	<b>(17.9)</b>	<b>161.8</b>	<b>(179.7)</b>

Changes in the **Group's net debt** are as follows:

- a reduction in bond issues of €1,187.8 million, primarily following the repayment of bonds worth €1,000 million in February 2022;
- an increase in borrowings of €1,038.8 million, primarily as a result of the drawdown of new bank facilities totalling €1,800.0 million, after the repayment of bank loans totalling €400.0 million and scheduled repayments on existing EIB loans;
- a reduction in short-term borrowings (down €1,502.9 million), essentially due to the Parent Company's repayment of amounts obtained under short-term credit facilities;
- an increase in the fair value of derivative financial instruments (up €90.1 million), primarily due to movements in the derivatives held and in market interest rates;



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- an increase in other net financial liabilities (up €12.2 million), essentially due to the recognition of accrued interest on financial products;
- a reduction in financial assets (down €711.7 million), primarily following the repayment of Italian government securities held, partly offset by new investments during the period;
- an increase in cash and cash equivalents of €588.3 million. Cash amounts to €2,155.1 million at 31 December 2022, including €1,527.9 million invested in short-term, readily convertible deposits and €627.2 million held in bank current accounts and in the form of cash in hand.

**Net debt attributable to assets held for sale**, amounting to €17.9 million at 31 December 2022, essentially relates to SPE Transmissora de Energia Linha Verde I S.A. and regards the short-term portion of investment in infrastructure operated under concession in Brazil, recognised in application of IFRIC 12, totalling approximately €6.0 million and cash and cash equivalents of approximately €11.9 million. The reduction of €179.7 million compared with 31 December 2021 is primarily due to the first two transaction closings for the sale of the South American assets.

## Reconciliation of the Group's profit for the period and equity with the corresponding amounts for the Parent Company

The reconciliation of consolidated equity and consolidated profit for 2022 and the corresponding amounts for the Parent Company is shown below.

	PROFIT FOR FY 2022	EQUITY AT 31 DECEMBER 2022
<b>Financial statements of Terna S.p.A.</b>	<b>834.1</b>	<b>5,746.1</b>
Difference between equity in the financial statements, including profit/(loss) for the year, and the carrying amounts of investments in consolidated companies	73.0	1,859.8
Consolidation adjustments:		
- Intragroup dividends	(13.6)	(210.4)
- Elimination of unrealised intragroup profits net of the related taxation and other minor adjustments	(23.0)	(1,249.9)
- Foreign currency translation reserve	(11.8)	(6.9)
- Measurement of companies using the equity method	(1.0)	30.4
<b>Total consolidated financial statements</b>	<b>857.7</b>	<b>6,169.1</b>
<b>Non-controlling interests</b>	<b>0.7</b>	<b>27.1</b>
<b>Terna Group's consolidated financial statements</b>	<b>857.0</b>	<b>6,142.0</b>

# Terna S.p.A.

A review of the operating performance and financial position of the Parent Company, Terna S.p.A., is provided below.

As previously noted, given that the requirements of IFRS 5 have been met, gains and losses for 2022 and 2021 on the investment in the Uruguayan subsidiary involved in the planned sale of assets have been classified in the item "Profit/(Loss) for the year from discontinued operations and assets held for sale" in the reclassified income statement.

## Terna S.p.A.'s reclassified income statement

Terna S.p.A.'s operating results for the years 2022 and 2021 are summarised in the following reclassified income statement, obtained by reclassifying amounts in the statutory income statement.

	2022	2021	CHANGE	% CHANGE
<b>TOTAL REVENUE</b>	<b>2,520.5</b>	<b>2,224.1</b>	<b>296.4</b>	<b>13.3%</b>
- Tariff revenue and incentives	2,273.8	2,006.2	267.6	13.3%
<i>of which transmission revenue</i>	1,823.8	1,892.4	(68.6)	(3.6%)
<i>of which dispatching, metering and other revenue</i>	450.0	113.8	336.2	295.4%
- Other operating income	179.3	171.0	8.3	4.9%
- Revenue from construction services performed under concession*	67.4	46.9	20.5	43.7%
<b>TOTAL OPERATING COSTS</b>	<b>613.6</b>	<b>517.3</b>	<b>96.3</b>	<b>18.6%</b>
- Personnel expenses	101.6	75.8	25.8	34.0%
- Cost of services, leases and rentals	421.0	371.3	49.7	13.4%
- Materials	1.7	0.8	0.9	112.5%
- Other costs	20.0	16.6	3.4	20.5%
- Quality of service	1.9	5.9	(4.0)	(67.8%)
- Cost of construction services performed under Concession*	67.4	46.9	20.5	43.7%
<b>GROSS OPERATING PROFIT (EBITDA)</b>	<b>1,906.9</b>	<b>1,706.8</b>	<b>200.1</b>	<b>11.7%</b>
- Amortisation, depreciation and impairment losses	650.3	585.8	64.5	11.0%
<b>OPERATING PROFIT/(LOSS) (EBIT)</b>	<b>1,256.6</b>	<b>1,121.0</b>	<b>135.6</b>	<b>12.1%</b>
- Net financial income/(expenses)	(87.1)	(78.4)	(8.7)	11.1%
<b>PROFIT/(LOSS) BEFORE TAX</b>	<b>1,169.5</b>	<b>1,042.6</b>	<b>126.9</b>	<b>12.2%</b>
- Income tax expense	334.8	297.7	37.1	12.5%
<b>PROFIT/(LOSS) FOR THE YEAR FROM CONTINUING OPERATIONS</b>	<b>834.7</b>	<b>744.9</b>	<b>89.8</b>	<b>12.1%</b>
Profit/(Loss) for the year from discontinued operations and assets held for sale	(0.6)	(9.7)	9.1	93.8%
<b>PROFIT FOR THE YEAR</b>	<b>834.1</b>	<b>735.2</b>	<b>98.9</b>	<b>13.5%</b>

\* Recognised in application of interpretation "IFRIC 12 – Service Concession Arrangements".

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**Gross operating profit (EBITDA)** for the year is **€1,906.9 million**, an increase of €200.1 million compared with the €1,706.8 million of 2021 due primarily to the greater effect of output-based incentive mechanisms and the increase in the regulated asset base during the period, after the reduction in WACC recognised for 2022 (equal to 5%, compared with the previous 5.6%).

After excluding revenue from construction services performed under concession (up €20.5 million), **revenue of €2,520.5 million** is up €275.9 million compared with the previous year. This primarily reflects:

- the increase in revenue relating to output-based incentive mechanisms for dispatching, amounting to €334.7 million, reflecting the impact of Resolutions 597/2021 and 132/2022, designed to cut DSM costs, the shortfall in wind production and essential plants (€194.2 million, representing the accrued share of the present value of the incentive due for the period 2022-2024) and Resolution 699/2018, which provided incentives for grid development projects in the three-year period from 2019 to 2021 designed to relieve congestion within market areas and grid constraints due to voltage regulation and improve conditions for essential service provision (€140.5 million, representing the present value of the amount established in Resolution 26/2023, to be collected over three years from 2023);
- reduced transmission revenue (down €68.6 million) as a result of the reduction in the WACC recognised for 2022 (Resolution 614/21) and the volume effect, partly offset by an increase in the regulated base asset and output-based incentives relating to the delivery of additional transmission capacity between market areas (€34.5 million, Resolution 567/2019) net of the incentives recognised in 2021 (down €48.1 million);
- increased revenue in the form of the bonus receivable under the RENS incentive mechanism (up €11.6 million), due primarily to recognition of the portion due on the basis of the estimated overall performance in the 2022-2023 regulatory period;
- increased revenue from connections to the NTG (up €3.3 million), from the Sacoi O&M contract (€2.9 million), from compensation received for damage to infrastructure (up €1.7 million), from the progress of work on the private Italy-Austria Interconnector (up €2.6 million) and from the subsidiary, Terna Rete Italia S.p.A. (up €3.5 million), primarily due to sureties and administrative services following changes to the range of activities carried out;
- recognition, in 2021, of revenue relating to the outcome of the claim for a refund of stamp duty paid on the acquisition of Rete S.r.l. (down €13.4 million) and of revenue from IRU contracts for fibre (down €7.7 million) included in revenue from Connectivity services.

After excluding the cost of construction services performed under concession (up €20.5 million), **operating costs** for the year, amounting to **€613.6 million** are up €75.8 million compared with the previous year. This essentially reflects the following:

- increased personnel expenses (up €25.8 million), primarily due to an increase in the average workforce and additional provisions for early retirement and staff incentive schemes;
- an increase in amounts payable to the subsidiary, Terna Rete Italia S.p.A. (up €34.0 million), regarding an increase in maintenance and operation services provided for the infrastructure owned by the Company following changes to the range of activities carried out, totalling €24.7 million, an increase in the performance bonus linked to the quality of the transmission service awarded to the company, amounting to €4.3 million, and an increase in amounts payable to the subsidiary, Terna Energy Solutions S.r.l. (up €2.2 million) regarding services provided in relation to Non-regulated Activities;
- increased provisions for right-of-way fees for power lines (up €4.2 million);
- an increase in advertising costs (up €2.1 million), in costs linked to Terna's investments in GRIT and CORESO (up €1.5 million) and in membership fees (€1.7 million);
- a decrease in the costs incurred for quality of service (down €4.0 million), primarily linked to the repayment made to Terna to cover the amount in excess of the threshold paid in 2021 to distribution companies for mitigation services (down €2.7 million, pursuant to Resolution 623/2022) and a reduction in faults and non-postponable unavailability.

**Amortisation, depreciation and impairment losses** for the year amount to **€650.3 million**, an increase of €64.5 million compared with 2021, primarily due to the entry into service of new infrastructure and an increase in impairment losses on assets recognised during the year (up €6.6 million).

**EBIT** (operating profit) of **€1,256.6 million** is up €135.6 million (12.1%) compared with 2021.

**Net financial expenses** for the year total €87.1 million, an increase of €8.7 million compared with the €78.4 million of 2021. This is primarily due to rising inflation and recognition during the year of an impairment loss on the investment in the subsidiary, Terna Plus S.r.l., amounting to €7 million, partially offset by a €14 million increase in capitalised financial expenses and dividends paid during the year by the subsidiaries, Terna Interconnector S.r.l. (€6.5 million) and Terna Crna Gora d.o.o. (€3.9 million).

**Income tax expense** for the year amounts to €334.8 million, an increase of €37.1 million compared with the previous year. This essentially reflects the impact of the increase in pre-tax profit. The tax rate of 28.6% is in line with the rate for 2021.

The **profit from continuing operations** amounts to **€834.7 million**, an increase of €89.8 million (12.1%) compared with the €744.9 million of 2021.

The **loss from discontinued operations and assets held for sale**, totalling €0.6 million, is down €9.1 million compared with the previous year, essentially reflecting the adjustment to the value of the net assets held for sale recognised in application of IFRS 5.

**Profit for the year** amounts to **€834.1 million**, an increase of €98.9 million (13.5%) compared with the €735.2 million of 2021.

## Cash flow

Operating cash flow for 2022 was used entirely to finance investing activities. The impact on working capital of movements in trading assets and liabilities compared with 2021 and repayment of a bond issue during the year (replaced by the hybrid green bond issued on 2 February 2022 and worth €1 billion, accounted for in equity), have resulted in a reduction in net debt.

	(€m)	
	CASH FLOW 2022	CASH FLOW 2021
- Profit for the year	834.1	735.2
- Amortisation, depreciation and impairment losses	650.3	585.8
- Net change in provisions	30.2	(37.9)
- Net losses/(gains) on sale of assets	(5.9)	(12.6)
<b>Operating cash flow</b>	<b>1,508.7</b>	<b>1,270.5</b>
- Change in net working capital	1,056.1	(162.0)
- Change in investments	6.5	3.1
- Other movements in property, plant and equipment and intangible assets	12.2	41.3
- Change in financial assets	(154.3)	(20.6)
<b>Cash flow from operating activities</b>	<b>2,429.2</b>	<b>1,132.3</b>
- Total capital expenditure	(1,586.9)	(1,376.6)
<b>Free cash flow</b>	<b>842.3</b>	<b>(244.3)</b>
<b>Net assets held for sale</b>	<b>23.0</b>	<b>(23.0)</b>
- Dividends paid to shareholders	(601.0)	(556.4)
- Cash flow hedge reserve after taxation and other movements in equity	1,183.5	67.1
<b>Change in net debt</b>	<b>1,447.8</b>	<b>(756.6)</b>

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## Terna S.p.A.'s reclassified statement of financial position

Terna S.p.A.'s financial position at 31 December 2022 and 2021 is summarised in the following statement, obtained by reclassifying amounts in the statutory statement of financial position.

(€m)

	AT 31 DECEMBER 2022	AT 31 DECEMBER 2021	CHANGE
<b>Total net non-current assets</b>	<b>16,487.9</b>	<b>15,409.7</b>	<b>1,078.2</b>
- Intangible assets and goodwill	668.7	543.8	124.9
- Property, plant and equipment	14,252.9	13,447.4	805.5
- Financial assets	1,566.3	1,418.5	147.8
<b>Total net current liabilities</b>	<b>(2,258.0)</b>	<b>(1,201.8)</b>	<b>(1,056.2)</b>
- Net energy-related pass-through payables	(1,356.4)	(234.3)	(1,122.1)
- Net receivables resulting from regulated activities	778.7	448.4	330.3
- Net trade payables	(758.8)	(671.7)	(87.1)
- Net tax assets	(103.3)	(110.1)	6.8
- Other liabilities net	(818.2)	(634.1)	(184.1)
<b>Gross invested capital</b>	<b>14,229.9</b>	<b>14,207.9</b>	<b>22.0</b>
Sundry provisions	(37.8)	(7.6)	(30.2)
<b>NET INVESTED CAPITAL</b>	<b>14,192.1</b>	<b>14,200.3</b>	<b>(8.2)</b>
Assets held for sale	-	23.0	(23.0)
<b>TOTAL NET INVESTED CAPITAL</b>	<b>14,192.1</b>	<b>14,223.3</b>	<b>(31.2)</b>
Equity	5,746.1	4,329.5	1,416.6
Net debt	8,446.0	9,893.8	(1,447.8)
<b>TOTAL</b>	<b>14,192.1</b>	<b>14,223.3</b>	<b>(31.2)</b>

The principal changes with respect to 31 December 2021 are described below.

**Total net invested capital** amounts to €14,192.1 million at 31 December 2022, a reduction of €31.2 million due to an increase in **net non-current assets** (up €1,078.2 million), a reduction in cash from changes in **net working capital** (down €1,056.2 million), an increase in sundry provisions (€30.2 million) and the reduction of **assets held for sale** to zero (down 23.0 million). This change is financed by equity of €5,746.1 million (up €1,416.6 million compared with the €4,329.5 million of 31 December 2021, primarily due to recognition of the reserve for the hybrid green bonds issued, amounting to €989.0 million and accounted for in equity) and net debt of €8,446.0 million (down €1,447.8 million compared with the €9,893.8 million of 31 December 2021).

**Net non-current assets** are up €1,078.2 million, primarily due to the following:

- the Company's capital expenditure (€1,586.9 million, including €1,569.5 million relating to Regulated Activities) and the purchase, on 14 July 2022, of 8 power lines and fibre cable installed on the lines from the subsidiary, Rete S.r.l., for a consideration of €16.8 million;
- an increase of €147.8 million in financial assets, mainly due to the purchase, in September 2022, of Italian Government bonds ("BTP") with a notional value of €100.0 million, maturing in May 2025 and paying a coupon of 1.4% (€98.7 million at 31 December 2022), an increase in guarantee deposits received from operators participating in the capacity market in accordance with Resolution 98/2011/R/eel, as amended (up €38.1 million) and an increase in the Interconnector Guarantee Fund, set up to fund investment in interconnections by art. 32 of Law 99/09 (up €19.6 million), partially offset by an impairment loss on the investment in the subsidiary, Terna Plus S.r.l., amounting to €7 million;
- amortisation and depreciation for the year (€643.2 million);

### 3. The Group's business

- other movements during the year in "Property, plant and equipment", resulting in a reduction of €20.0 million. This includes grants related to assets (primarily in relation to projects financed by the Ministry for Economic Development and the EU and the re-routing of power lines at the request of third parties) and disposals and impairment losses resulting in a reduction of €10.1 million.

The change in **net working capital**, a reduction of €1,056.2 million, is primarily due to an increase in net trade payables, essentially relating to energy-related items, guarantee deposits received from electricity market operators, the Interconnector Guarantee Fund set up by Terna S.p.A. following the issue of the 2016 Stability Law and grants related to assets received from third parties.

**Sundry provisions** are up €30.2 million, primarily due to:

- the net release of deferred tax assets (up €39.5 million), primarily due to the effect on taxation of movements in derivative financial instruments, amortisation and depreciation and movements in provisions for risks and charges;
- net provisions for amounts payable to personnel (up €3 million), partially offset by net uses of provisions for litigation and disputes (down €5.5 million), to fund urban and environmental redevelopment schemes (down €4.4 million) and relating to quality of service (down €2 million).

**Assets held for sale** have been reduced to zero (down €23 million compared with 31 December 2021) following completion of the sale of the Uruguayan subsidiary to CDPQ on 22 December 2022.

**Net debt** of €8,446.0 million is down €1,447.8 million.

	31 DECEMBER 2022	31 DECEMBER 2021	CHANGE
(€m)			
<b>Net debt (by type of instrument)</b>			
- Bond issues	6,737.7	7,925.5	(1,187.8)
- Borrowings	3,529.9	2,523.3	1,006.6
- Short-term borrowings	419.5	1,917.6	(1,498.1)
- Other financial liabilities net	35.8	23.6	12.2
- Derivative financial instruments	172.5	82.1	90.4
<b>Gross debt</b>	<b>10,895.4</b>	<b>12,472.1</b>	<b>(1,576.7)</b>
- Financial assets	(246.8)	(958.5)	711.7
- Cash and cash equivalents (including the net balance on intercompany current accounts)	(2,202.6)	(1,619.8)	(582.8)
<b>Total net debt</b>	<b>8,446.0</b>	<b>9,893.8</b>	<b>(1,447.8)</b>
<b>Net debt attributable to assets held for sale</b>	<b>-</b>	<b>(24.6)</b>	<b>24.6</b>

Given that the change in the Company's net debt is broadly in line with the change in the Group's net debt, reference should be made to the above description of changes in the Group's debt. The sharp decline in gross debt, down €1,576.7 million compared with 31 December 2021, is due primarily to the repayment of bonds in February 2022 and of short-term borrowings. This was after the drawdown of new bank facilities totalling €1,006.6 million and adjustments to the fair value of financial instruments.

Cash and cash equivalents of €2,202.6 million is up €582.8 million and consists of €1,510.6 million invested in short-term, readily convertible deposits, €519.1 million held in bank current accounts and in the form of cash in hand and €172.9 million corresponding with the net amount receivable on intercompany current accounts held by the Company on behalf of its subsidiaries.

Financial assets have decreased €711.7 million, essentially following the repayment of Italian government securities held, partly offset by new investments during the period.

Net debt attributable to assets held for sale has been reduced to zero (down €24.6 million) following the sale of the investment in the Uruguayan subsidiary.

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## Proposed distribution of profit for the year

Terna S.p.A.'s Board of Directors proposes to pay a total dividend of €631,941,484.80 for 2022, equal to €0.3144 per share, of which €0.1061 per share was declared in the form of an interim dividend on 9 November 2022.

The Board of Directors thus proposes to appropriate Terna S.p.A.'s profit for 2022, amounting to €834,138,704.35, as follows:

- €213,260,151.2 to cover payment of the interim dividend payable from 23 November 2022 to the holders of each of the ordinary shares outstanding after adjusting for the treasury shares held at the record date of 22 November 2022 (with the relevant amount of €464,283.94 taken to retained earnings);
- €418,681,333.6 maximum to pay a final dividend of €0.2083 to the holders of each of the 2,009,992,000 ordinary shares representing the share capital at the date of this Board of Directors' meeting. The final dividend will be payable on 21 June 2023, with an ex-dividend date for coupon 38 of 19 June 2023 (a record date, as defined by art. 83-terdecies of Legislative Decree 58 of 24 February 1998, the Consolidated Law on Finance, of 20 June 2023). The treasury shares held as of the above record date will not participate in the distribution. The final dividend for 2022 attributable to the treasury shares held by the Company at the record date will be taken to retained earnings;
- €202,197,219.55 to be taken to retained earnings.

DNF

# EU Taxonomy

## Regulation 852/2020

### Introduction

The climate and energy targets that the European Union has set for 2030 and 2050, with the aim of implementing the European Green Deal, also require the involvement of the private sector, with the aim of directing investment towards sustainable projects and activities. With this in mind, European institutions have introduced a taxonomy of economic activities that can be considered as "sustainable", namely they are potentially able to help achieve pre-set environmental objectives. The classification system introduced by EU Regulation 2020/852 (also "EU Taxonomy Regulation" or "Taxonomy" or "Regulation") aims to provide investors, businesses and public organisations with reliable shared criteria and methods to identify sustainable economic activities. Moreover, the Regulation enables measurement of the extent to which individual company activities adhere to and contribute to the pre-set objectives, thereby ensuring greater transparency for all stakeholders.

According to the Regulation, an economic activity can be defined as "environmentally sustainable" if it:

- **meets the technical screening criteria defined, on a scientific basis, for each activity.** Compliance with the technical screening criteria ensures that an activity:
  - **contributes substantially to the achievement of at least one of the six environmental objectives** set out in Article 9 of the Regulation: climate change mitigation; climate change adaptation; the sustainable use and protection of water and marine resources; the transition to a circular economy; pollution prevention and control; the protection and restoration of biodiversity and ecosystems;
  - **Does No Significant Harm** (DNSH) to any of the other five environmental objectives;
- **respects minimum safeguards**, recognising the importance of human rights and international rights and standards in the management of its organisation and along the supply chain.

From January 2022, the disclosure of information pursuant to the Taxonomy in the consolidated Non-financial Statement (NFS) is mandatory for companies that are already subject to the obligations laid down by Directive 2014/95/EU on non-financial reporting. For 2021, the first year of application of the Regulations, companies were required to disclose the share - in terms of revenue, capital expenditure (CapEx) and operating expenditure (OpEx) - of "taxonomy eligible" (also defined as "eligible") and "non-eligible" activities relating to climate change objectives, namely those activities included in Annexes 1 and 2 of Delegated Regulation 2139/2021<sup>52</sup> (or "Climate Delegated Act"), without having to comply with the technical screening criteria and the minimum safeguards.

For 2022, the Regulations are applied in full and therefore, in addition to the share of eligible and non-eligible assets also include the share of "taxonomy-aligned" (or "aligned") assets, namely the eligible assets that meet the technical screening criteria set forth in the Climate Delegated Act, and are in line with the minimum safeguards, pursuant to Article 18 of the Regulation.

<sup>52</sup> Annex 1 lists activities related to the climate change mitigation objective, while Annex 2 lists activities related to the climate change adaptation objective.



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## Assessment of compliance with the Regulation

With regard to 2022, in line with the previous year, the Group's activities have been mapped - taking into account both the Regulated and the Non-regulated segments (which are described in the section on "The Group's business") - in order to identify those activities that are taxonomy-eligible, namely potentially able to contribute to climate change mitigation and adaptation objectives.

Following these analyses, the Group's activities were associated with the following economic activities in relation to the climate change mitigation objective:

- **4.9 Electricity transmission and distribution:** including activities in the **Regulated Activities** segment, primarily regarding the development, operation and maintenance of the National Transmission Grid, which is part of the European interconnected system, as well as dispatching and metering activities. Point 4.9 also includes **Non-regulated Activities**, related to work on systems dependent on the European interconnected system and the installation of transmission and distribution transformers that comply with the requirements laid down by EU Regulation 2014/548 and the EN 50588-1 standard, and **International Activities**, related to transmission and distribution activities carried out by the Group's overseas subsidiaries in Brazil, Peru and Uruguay. International Activities have been reclassified in accordance with IFRS 5 as discontinued operations and net assets held for sale<sup>53</sup>;
- **7.6 Installation, maintenance and repair of renewable energy technologies:** including maintenance, plant monitoring and other services for third parties operating in renewable energy production. In particular, Group activities relating to the construction and maintenance of photovoltaic solar energy plants and ancillary technical equipment are included;
- **9.3 Professional services related to the energy performance of buildings:** including activities related to consultancy services, feasibility studies, energy performance contracts, energy efficiency certificates (EECs or white certificates) and services performed by the Group as an energy service provider (ESCO, energy service company).

For the purpose of assessing alignment, analyses were then carried out for each identified eligible activity in order to verify compliance with the substantial contribution criteria and the established Do No Significant Harm criteria.

### 4.9 activities - Electricity transmission and distribution

#### Substantial contribution

The Group's main activities (especially those carried out by the parent Terna S.p.A. and the subsidiaries Terna Rete Italia S.p.A., Rete S.r.l. and Terna Crna Gora d.o.o.) include the design, construction, management, development, operation and maintenance of the high- and ultra-high-voltage national transmission grid which is connected to the European interconnected system and its subordinate systems. The operation and maintenance activities carried out by the Tamini Group and the Brugg Cables Group to ensure the operation of the transmission grid, and some of the activities carried out by Terna Energy Solutions S.r.l. are also included.

4.9 activities include the installation of transmission and distribution transformers (4.9 - criterion 2.c) carried out by the Tamini Group. In this case, checks were carried out to ensure that the transformers installed by the Tamini Group meet the requirements specified in the technical screening criteria<sup>54</sup>, thereby excluding any installation activities related to the non-EU market.

<sup>53</sup> In line with FAQ no. 17 published on 19 December 2022 regarding the interpretation of Article 8 of the EU Taxonomy Regulation, for companies classified as "discontinued operations" only the CapEx KPI is reported, while for companies classified as "held for sale" both revenue and capEx are reported.

<sup>54</sup> Transmission and distribution transformers comply with the phase 2 (1 July 2021) requirements of Annex I of EU Commission Regulation 548/2014, and the AAA0 level requirements for no-load losses of EN 50588-1.

The revenue and CapEx KPIs related to 4.9 activities include the electricity infrastructure construction activities attributable to the South American subsidiaries included in the planned sale of assets, reclassified in accordance with IFRS 5, which began at the end of 2021. These activities were considered admissible, but not aligned, as their compliance with the technical screening criteria could not be assessed. As of next year, with regard to the (potential) change in the scope of IFRS 5, the KPIs will be revised accordingly.

#### DNSh<sup>55</sup>

The Terna Group has carried out an assessment of climate risks that may have an impact on transmission assets, described in the Climate Change Disclosure, which aims to identify and assess climate risks connected with Terna's plants and activities. Climate assessments underpin the forecasts contained in the Group's Development Plan, Renewal Plan and Resilience Plan, all of which include initiatives to boost the electricity grid's resilience to the severe weather events that are occurring with increasing intensity and frequency.

In 2022, with regard to the objective of transitioning to a circular economy, the Terna Group completed preparatory activities for the drawing up of a Circular Economy Strategy and a Roadmap of Actions to 2030 relating to the procurement of materials and their proper use, sustainable use of resources including secondary raw materials, and waste management. See the relative section in "Natural capital" (page 258).

With reference to the objective of preventing and reducing pollution, the Terna Group follows the IFC's General Environmental, Health and Safety Guidelines, and the applicable rules and regulations, in order to limit the impact of electromagnetic radiation on human health. Moreover, periodic internal checks of environmental data revealed no traces of polychlorinated biphenyls (PCBs) in transformers used or installed by Group companies in 2022.

Finally, when necessary, the Group conducted environmental impact assessments (EIAs) on individual projects related to transmission and dispatching activities. When an EIA was carried out, the necessary mitigation and compensation measures to protect the environment were implemented. In addition, a strategic environmental assessment (SEA) procedure was prepared to complement the decisions made in planning and drawing up the Plan.

For sites/operations located in or near biodiversity-sensitive areas (including the Natura 2000 network of protected areas, UNESCO World Heritage sites and major biodiversity areas, as well as other protected areas), an appropriate environmental risk assessment was conducted, if applicable. When possible, the Group carried out an assessment to implement mitigation, compensation and rehabilitation measures in order to restore the sites affected by works to their original state.

<sup>55</sup> With reference to the Do No Significant Harm principle, it should be noted that the Commission's Delegated Regulation (EU) 2021/2139 of 4 June 2021 defines the "Sustainable use and protection of water and marine resources" objective as not relevant for electricity transmission and distribution activities.

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## 7.6 activities - Installation, maintenance and repair of renewable energy technologies

### Substantial contribution

The activities of Terna S.p.A. and its subsidiaries Terna Rete Italia S.p.A., Terna Energy Solutions S.r.l. and the LT Group contribute substantially to mitigating climate change, with particular reference to point (a) "installation, maintenance and repair of photovoltaic solar systems and ancillary technical equipment", as they involve revamping and repowering of third-party photovoltaic solar systems.

### DNSH

Regarding 7.6 activities, the regulations only envisage DNSH criteria for the climate change adaptation objective, which requires an assessment of the physical climatic risks arising from the activities. Terna's climate risk assessment of transmission assets, described in the Climate Change Disclosure, does not include 7.6 activities. Moreover, all installation, maintenance and repair work relates to third party assets. Therefore, in this case, as it has not identified any specific climatic risks related to 7.6 activities, and adopting a conservative approach, the Group considers that these activities, although eligible, are not aligned with the Regulation's DNSH criterion, for the time being.

## 9.3 activities - Professional services related to the energy performance of buildings

### Substantial contribution

Through its subsidiary Avvenia S.r.l., the Group provides many of the services included in the substantial contribution criterion for 9.3 activities. In particular, Avvenia operates as an energy service company (ESCO), including consultancy services, feasibility studies and trading of energy efficiency certificates (EECs or white certificates).

### DNSH

Also with regard 9.3 activities, the regulations only envisage DNSH criteria for the climate change adaptation objective, which requires an assessment of the physical climatic risks arising from the activities. Terna's climate risk assessment of transmission assets, described in the Climate Change Disclosure, does not include 9.3 activities. Furthermore, all consultancy projects, feasibility studies and trading of white certificates relate to third-party assets. Therefore, in this case, as it has not identified any specific climatic risks related to 9.3 activities, and adopting a conservative approach, the Group considers that these activities, although eligible, are not aligned with the Regulation's DNSH criterion, for the time being.

## Minimum safeguards

For the purposes of verifying the alignment of Terna's activities, an analysis was conducted on the adequacy of the measures in place at Group level with respect to the principles referred to in Article 18 of the Regulation, namely the OECD Guidelines for Multinational Enterprises, the United Nations Guiding Principles on Business and Human Rights, including the principles and rights established by the eight fundamental conventions identified in the International Labour Organisation's Declaration on Fundamental Principles and Rights at Work and the International Charter of Human Rights. For the purposes of the analysis, the Group also took into account the guidance provided by the Platform on Sustainable Finance (PSF) in its Final Report on Minimum Safeguards published in October 2022.

In view of the cultural, social and economic diversity of the various countries in which Terna operates, the Parent Company requires individual subsidiaries to adopt and supplement their own Code of Ethics, in addition to their own policy documents, with conduct criteria specific to their activities and operating context. This enables the criteria of conduct for all Group companies to be consistent with the highest standards of environmental protection, safety, human rights and workers' rights.

Oversight of the issues underlying the minimum safeguards is ensured by the presence of prescriptive instruments, such as Group policies, guidelines, and organisational/operational tools, including dedicated structures, procedures, and management and control systems. The Terna Group has sufficient safeguards and controls in place to ensure compliance with Article 18 of the Regulation, thanks to the presence of:

- a Code of Ethics, whose principles must be respected in all Group procedures;
- guidelines on respecting human rights in the Terna Group;
- a due diligence procedure on respecting human rights, followed by any necessary corrective actions;
- regulations on the qualification of companies, which entails compliance with the principles of the Code of Ethics;
- effective, public communication on human rights issues;
- a whistleblowing procedure;
- complaint mechanisms accessible to stakeholders via the Group's website;
- anticorruption guidelines.

For more information on minimum safeguards, reference should be made to the section on "Intangible capital", in which, among other aspects, the protection of legality, integrity and anticorruption, the Integrated Management System, and measures to ensure respect for human rights, are explained in detail.

On completion of the alignment analysis, the Group determined the shares of activities that are eligible and aligned with the Taxonomy for each indicator, as follows. In order to avoid double counting in the KPI numerator when allocating revenue, capital expenditure and operating expenditure to the three economic activities, the KPIs were determined on the basis of the data reported in the Group's consolidated financial statements and allocated to the mitigation objective only.

As required by the Regulation, the table below shows the Terna Group's three KPIs for 2022, referring to taxonomy eligible and taxonomy non-eligible activities:

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# KPI

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## SHARE OF ELIGIBLE ACTIVITIES

*of which share of aligned activities*



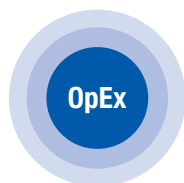
89%

87%



99%

99%



94%

94%

Share of revenue derived from products or services associated with economic activities aligned and eligible for Taxonomy - 2022 disclosure (figures in €m)<sup>56</sup>

	NUMBER(S)	ABSOLUTE REVENUE	SHARE OF REVENUE (%)	SUBSTANTIAL CONTRIBUTION CRITERIA							DO NO SIGNIFICANT HARM CRITERIA							
				CLIMATE CHANGE MITIGATION (%)	CLIMATE CHANGE ADAPTATION (%)	WATER AND MARINE RESOURCES (%)	THE CIRCULAR ECONOMY (%)	POLLUTION (%)	BIODIVERSITY AND ECOSYSTEMS (%)	CLIMATE CHANGE MITIGATION (YES/NO)	ADAPTATION TO CLIMATE CHANGE ADAPTATION (YES/NO)	WATER AND MARINE RESOURCES (YES/NO)	THE CIRCULAR ECONOMY (YES/NO)	POLLUTION (YES/NO)	BIODIVERSITY AND ECOSYSTEMS (YES/NO)	MINIMUM SAFEGUARDS (YES/NO)	SHARE OF TAXONOMY-ALIGNED REVENUE - 2022 (%)	SHARE OF TAXONOMY-ALIGNED REVENUE - 2021 (%)
<b>ECONOMIC ACTIVITIES</b>																		
<b>A. TAXONOMY-ELIGIBLE ACTIVITIES</b>			89%															
<b>A.1 Environmentally sustainable activities (taxonomy-aligned)</b>																		
Electricity transmission and distribution	4.9	2,586	87%	100%	0%	0%	0%	0%	0%		Y		Y	Y	Y	Y	87%	A
<b>Revenue from environmentally sustainable activities (taxonomy-aligned) (A.1)</b>		2,586	87%	100%	0%	0%	0%	0%	0%								87%	
<b>A.2 Taxonomy-eligible activities that are not environmentally sustainable (non-taxonomy-aligned activities)</b>																		
Electricity transmission and distribution	4.9	18	1%															
Installation, maintenance and repair of renewable energy technologies	7.6	44	1%															
Professional services related to the energy performance of buildings	9.3	2	0%															
<b>Revenue from taxonomy-eligible activities that are not environmentally sustainable (non-taxonomy-aligned activities) (A.2)</b>		64	2%															
<b>Total (A.1 + A.2)</b>		2,650	89%															
<b>B. NON-TAXONOMY-ELIGIBLE ACTIVITIES</b>																		
<b>Revenue from non-taxonomy-eligible activities (B)</b>		330	11%															
<b>Total (A+B)</b>		2,980	100%															

<sup>56</sup> The way in which information is presented may be updated subsequent to regulatory clarifications.

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**Share of CapEx derived from products or services associated with taxonomy-aligned economic activities - 2022 disclosure (figures in €m)<sup>57</sup>**

	NUMBER(S)	ABSOLUTE CAPEX	SHARE OF CAPEX (%)	SUBSTANTIAL CONTRIBUTION CRITERIA						DO NO SIGNIFICANT HARM CRITERIA						SHARE OF TAXONOMY-ALIGNED CAPEX - 2022 (%)	SHARE OF TAXONOMY-ALIGNED CAPEX - 2021 (%)	CATEGORY (ENABLING ACTIVITY) (A)	CATEGORY (TRANSITION ACTIVITY) (T)
				CLIMATE CHANGE MITIGATION (%)	CLIMATE CHANGE ADAPTATION (%)	WATER AND MARINE RESOURCES (%)	THE CIRCULAR ECONOMY (%)	POLLUTION (%)	BIODIVERSITY AND ECOSYSTEMS (%)	CLIMATE CHANGE MITIGATION (YES/NO)	CLIMATE CHANGE ADAPTATION (YES/NO)	WATER AND MARINE RESOURCES (YES/NO)	THE CIRCULAR ECONOMY (YES/NO)	POLLUTION (YES/NO)	BIODIVERSITY AND ECOSYSTEMS (YES/NO)				
<b>ECONOMIC ACTIVITIES</b>																			
<b>A. TAXONOMY-ELIGIBLE ACTIVITIES</b>			99%																
<b>A.1 Environmentally sustainable activities (taxonomy-aligned)</b>																			
Electricity transmission and distribution	4.9	1,739	99%	100%	0%	0%	0%	0%	0%		Y		Y	Y	Y	Y	99%	A	
<b>CapEx related to environmentally sustainable activities (taxonomy-aligned) (A.1)</b>		1,739	99%	100%	0%	0%	0%	0%	0%								99%		
<b>A.2 Taxonomy-eligible activities that are not environmentally sustainable (non-taxonomy-aligned activities)</b>																			
Electricity transmission and distribution	4.9	0	0%																
Installation, maintenance and repair of renewable energy technologies	7.6	2	0%																
<b>CapEx related to taxonomy-eligible activities that are not environmentally sustainable (non-taxonomy-aligned activities) (A.2)</b>		2	0%																
<b>Total (A.1 + A.2)</b>		1,742	99%																
<b>B. NON-TAXONOMY-ELIGIBLE ACTIVITIES</b>																			
<b>CapEx related to non-taxonomy-eligible activities (B)</b>		15	1%																
<b>Total (A+B)</b>		1,757	100%																

<sup>57</sup> The way in which information is presented may be updated subsequent to regulatory clarifications.

Share of OpEx derived from products or services associated with taxonomy-aligned economic activities - 2022 disclosure (figures in €m)<sup>58</sup>

	NUMBER(S)	ABSOLUTE OPEX	SHARE OF OPEX (%)	SUBSTANTIAL CONTRIBUTION CRITERIA						DO NO SIGNIFICANT HARM CRITERIA						SHARE OF TAXONOMY-ALIGNED OPEX - 2022 (%)	SHARE OF TAXONOMY-ALIGNED OPEX - 2021 (%)	CATEGORY (ENABLING ACTIVITY) (A)	CATEGORY (TRANSITION ACTIVITY) (T)
				CLIMATE CHANGE MITIGATION (%)	CLIMATE CHANGE ADAPTATION (%)	WATER AND MARINE RESOURCES (%)	THE CIRCULAR ECONOMY (%)	POLLUTION (%)	BIODIVERSITY AND ECOSYSTEMS (%)	CLIMATE CHANGE MITIGATION (YES/NO)	CLIMATE CHANGE ADAPTATION (YES/NO)	WATER AND MARINE RESOURCES (YES/NO)	THE CIRCULAR ECONOMY (YES/NO)	POLLUTION (YES/NO)	BIODIVERSITY AND ECOSYSTEMS (YES/NO)				
<b>ECONOMIC ACTIVITIES</b>																			
<b>A. TAXONOMY-ELIGIBLE ACTIVITIES</b>			94%																
<b>A.1 Environmentally sustainable activities (taxonomy-aligned)</b>																			
Electricity transmission and distribution	4.9	116	94%	100%	0%	0%	0%	0%	0%		Y	Y	Y	Y	Y	94%		A	
<b>OpEx related to environmentally sustainable activities (taxonomy-aligned) (A.1)</b>		116	94%	100%	0%	0%	0%	0%	0%							94%			
<b>A.2 Taxonomy-eligible activities that are not environmentally sustainable (non-taxonomy-aligned activities)</b>																			
Professional services related to the energy performance of buildings	9.3	0	0%																
<b>OpEx taxonomy-eligible activities that are not environmentally sustainable (non-taxonomy-aligned activities) (A.2)</b>		0	0%																
<b>Total (A.1 + A.2)</b>		116	94%																
<b>B. NON-TAXONOMY-ELIGIBLE ACTIVITIES</b>																			
<b>OpEx related to non-taxonomy-eligible activities (B)</b>		7	6%																
<b>Total (A+B)</b>		123	100%																

<sup>58</sup> The way in which information is presented may be updated subsequent to regulatory clarifications.



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## Accounting standards and contextual information

The accounting policy, namely the method for calculating the shares of revenue, CapEx and OpEx associated with the eligible and aligned activities identified by the Group, is based on the provisions of Annex 1 of Delegated Regulation 2178/2021.

For the purposes of allocating revenue, CapEx and OpEx to eligible and aligned activities, Terna has defined a clear and traceable methodology to meet quantitative and qualitative information needs. Specifically, the Group has reconstructed the indicators using data from the general, industrial and regulatory accounts.

Details of the methodology used to calculate the individual indicators are as follows:

To calculate the share of **revenue**, the numerator is taken to be the consolidated net revenue generated by the sale of products or services, including intangibles, associated with taxonomy eligible and aligned economic activities, and the denominator is taken to be total net revenue (based on the criteria set out in point 1.1.1 of Annex 1 to Delegated Regulation 2178/2021). Net revenue has been identified by using data from the consolidated financial statements prepared in accordance with international accounting standards and with reference to the provisions of IAS 1, paragraph 82(a). None of the figures in the reported amounts relate to economic activities included in the taxonomy carried out for the Group's internal consumption.

To calculate the share of **CapEx**, the numerator is taken to be capital expenditure recognised as assets in the consolidated balance sheet and associated with eligible and aligned activities, as defined according to the criteria set out in point 1.1.2.2 of Annex 1 of Delegated Regulation 2178/2021. The denominator is taken to be total capital expenditure, quantified in accordance with the criteria set out in point 1.1.2.1 of Annex 1 of Delegated Regulation 2178/2021. Specifically, the denominator comprises additions to tangible and intangible assets for the period before depreciation and amortisation, impairment losses and any revaluations, including those arising restatements and impairments, and excluding changes in fair value. In order to create the indicator, capital expenditure was identified using data from the consolidated financial statements, with reference to (a) IAS 16: Property, Plant and Equipment; (b) IAS 38: Intangible Assets and (c) IFRS 16: Leases.

To calculate the share of **OpEx**, the numerator is taken to be the operating expenditure associated with eligible and aligned activities and defined according to the criteria set out in point 1.1.3.2 of Annex 1 of Delegated Regulation 2178/2021, and the denominator is taken to be total operating expenditure, quantified in accordance with the criteria set out in point 1.1.3.1 of Annex 1 of Delegated Regulation 2178/2021. The latter includes the following costs: direct non-capitalised costs relating to research and development; building renovation measures; short-term rentals; and maintenance and repair, as well as any other direct expenditure relating to the day-to-day maintenance of property, plant and equipment, carried out either by the company or by third parties to whom these tasks are outsourced, as needed to ensure the continuous and efficient operation of these assets.

Finally, it should be noted that, as stated in the Green Bond Report, the Group has issued environmentally sustainable bonds over the years that finance taxonomy-aligned activities. The contribution of green bond issues in 2022 amounts to 17% of aligned CapEx.

# Share price performance

## Terna and the financial markets

Terna S.p.A. has been listed on Borsa Italiana's screen-based trading system (*Mercato Telematico Azionario*) since 23 June 2004. **From the date of floatation to the end of 2022, the share price has risen 306% (a capital gain)**, providing a Total Shareholder Return (TSR<sup>59</sup>) of 982%, ahead of both the Italian market (the FTSE MIB, up 64%) and the relevant European sector index (DJ Stoxx Utilities), which is up 289%.

Europe's leading stock markets ended 2022 in negative territory, weighed down by the conflict between Russia and Ukraine and the tightening of monetary policy by central banks to combat inflation. Milan lost 13.3%, Paris and Frankfurt gave up 9.5% and 15.2% and Madrid fell 5.6%, whilst London rose 0.9%.

Terna's shares closed 2022 at a price of €6.900, down 3.01% over the year. This outperformed both the market on which the shares are listed in Milan (FTSE MIB -13.3%) and the index for European utilities (DJ Stoxx Utilities -11.1%). The daily average volume traded during the year amounted to approximately 4.1 million. The share price reached a new all-time high of €8.334 per share on 25 May. It should also be noted that the ex-dividend date for the interim dividend for 2022, amounting to 10.61 euro cents per share, was 21 November.

### Key indicators per share

	2022	2021	2020	2019	2018	2017
Number of shares (in millions)*	2,010	2,010	2,010	2,010	2,010	2,010
Price at year end (€ per share)	6.90	7.11	6.25	5.95	4.95	4.84
Market capitalisation** (€m)	14,541	12,898	12,142	11,273	9,507	9,668
Average price for year (€ per share)	7.23	6.42	6.04	5.61	4.73	4.81
Earnings per share (€)	0.427	0.393	0.391	0.377	0.352	0.339
Dividend per share (€)	0.314	0.291	0.270	0.250	0.233	0.220
Payout ratio***	73.74%	74.12%	68.98%	66.22%	66.34%	64.24%
Dividend yield****	4.6%	4.1%	4.3%	4.2%	4.7%	4.5%
Total shareholder return	1.03%	18.8%	9.4%	25.1%	7.3%	15.9%

\* The total number of shares representing the share capital. The number of shares in circulation amount to 2,006 million, following the buyback of own shares to service the Performance Share Plan 2020-2023 in 2020, the Performance Share Plan 2021-2025 in 2021 and the Performance Share Plan 2022-2026 in 2022.

\*\* Based on the average price for the year.

\*\*\* The ratio of the total dividend to profit attributable to owners of the Parent.

\*\*\*\* Dividend per share for the year as a percentage of the share price at year end.

<sup>59</sup> Total Shareholder Return (TSR): total return on an equity investment, calculated as the sum of:

- I. capital gain: the change in the share price (difference between the price at the end and at the beginning of the relevant period) as a percentage of the price at the beginning of the period;
- II. reinvested dividends: the ratio between dividends per share paid out during the period and the share price at the beginning of the period. Dividends are assumed to have been reinvested in the shares.

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### Weighting of Terna's shares

	2022	2021
> on the FTSE MIB index	2.58%	2.18%

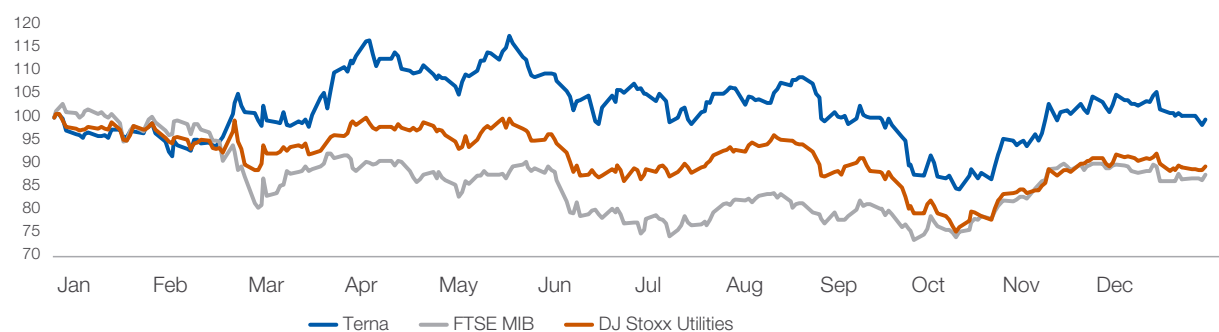
Source: Borsa italiana.

### Performance of Terna's shares (Price from 1 January to 30 December 2022)<sup>60</sup>



Source: Bloomberg.

### Terna's shares, the FTSE MIB and DJ Stoxx Utilities (Price from 1 January to 30 December 2022)<sup>60</sup>

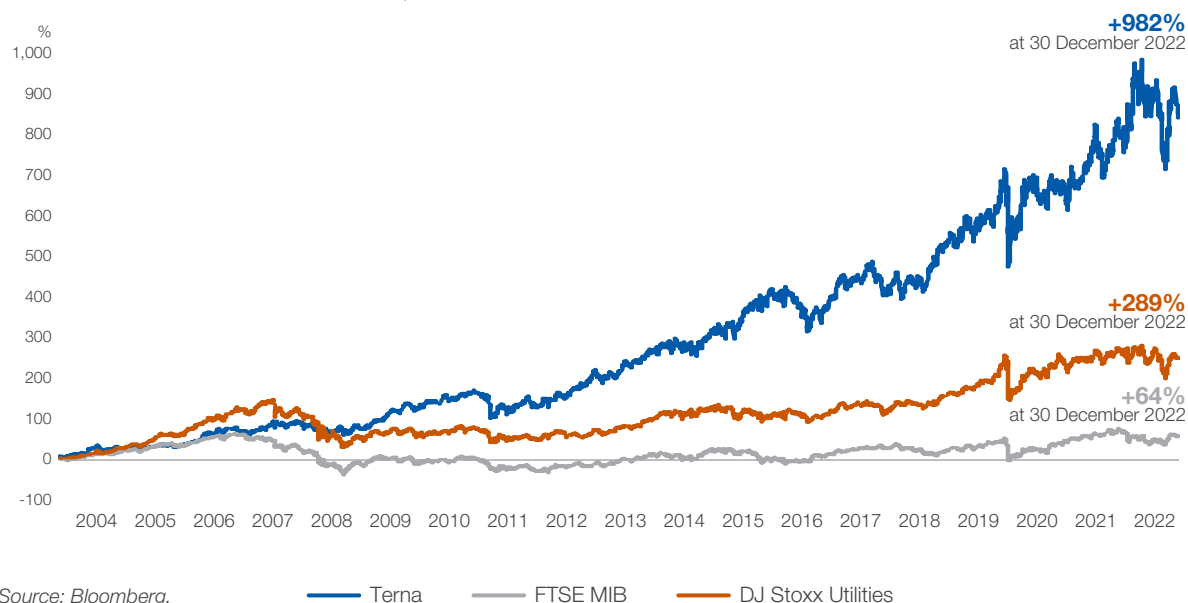


Source: Bloomberg.

<sup>60</sup> Friday, 30 December was the last day of trading on the markets in 2022.

### Total shareholder return on Terna's shares and the FTSE MIB and DJ Stoxx Utilities

(from the flotation to the end of 30 December 2022)<sup>61</sup>



## Inclusion in international stock exchange ESG indices

Terna's commitment to measuring and improving its sustainability performance is reflected positively in its ESG (Environmental, Social and Governance) ratings and, as a result, in its presence in international stock exchange ESG indices.

### ESG ratings

AGENCY	DESCRIPTION
<b>S&amp;P GLOBAL</b>	Its <b>Corporate Sustainability Assessment</b> ("CSA") is a periodic evaluation of companies' sustainability practices. The highest ranked companies are included in the Dow Jones Sustainability Index (DJSI). The CSA conducted in 2022 gave Terna a score of 91/100 (latest update: December 2022).
<b>SUSTAINALYTICS</b>	It periodically publishes an <b>ESG Risk Rating Report</b> on the Company. In 2022, Terna was rated as "Negligible Risk" (the best possible).
<b>MOODY'S ESG</b>	It periodically measures the <b>ESG performances</b> of companies. Its final opinion is based on four different levels of performance (Advanced; Robust; Weak; Limited). In October 2022, Terna was rated "Advanced" with a score of 74/100.
<b>BLOOMBERG</b>	Its <b>Gender Reporting Framework</b> is an international standardized reporting and disclosure method for workplace gender data. The highest ranked companies, such as Terna, are included in the Gender Equality Index (GEI).
<b>MSCI</b>	It periodically publishes an <b>ESG Ratings Report</b> in which it analyses and assesses companies on a scale from "AAA" (the highest rating) to "CCC". Terna has been assigned a rating of "AAA".
<b>CDP (CARBON DISCLOSURE PROJECT)</b>	Its periodically produced <b>Climate Change</b> questionnaire focuses on issues linked to climate change. The questionnaire results in a rating expressed in letters on a scale from D to A. In 2022, Terna received a score of "B".
<b>ISS ESG</b>	It assesses the sustainability performances of companies based on approximately a hundred criteria. The highest ranked companies, such as Terna, are awarded <b>Prime</b> status.
<b>FTSE RUSSELL</b>	Its ESG ratings reflect the company's exposure to – and management of – <b>ESG issues</b> and constitute the main input for inclusion in the FTSE4Good indices.
<b>STANDARD ETHICS</b>	Standard Ethics issues an opinion on companies' <b>degree of compliance</b> with regard to sustainability and corporate governance based on documents and guidelines published by international bodies. In December 2022, Terna improved its rating to "EE" on a scale from "EEE" (the best) to "F" (the worst).
<b>GRESB</b>	GRESB ("Global Real Estate Sustainability Benchmark") conducts assessments of the <b>level of disclosure</b> . In 2022, Terna received the highest possible rating of "A".

<sup>61</sup> Friday, 30 December was the last day of trading on the markets in 2022.

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## ESG indices

INDEX	TERNA
<b>DOW JONES SUSTAINABILITY</b>	The DJSI indices select the companies with the best sustainability performances from among those with the highest capitalisation. Has been included in the DJSI World and DJSI Europe indices since 2009.
<b>FTSE4GOOD</b>	The FTSE4Good indices are based on assessments carried out by FTSE Russel. Terna has been included in the index since 2005.
<b>MSCI</b>	Terna is a member of over a hundred of MSCI's general and sectoral ESG indices.
<b>STOXX® GLOBAL ESG LEADERS</b>	Launched in 2011, these indices are based on assessments made by the Sustainalytics rating agency and select the best shares based on ESG performance. Admission to the Global ESG Leaders Index, requires inclusion in at least one of the three specialist indices (Global Environmental Leaders, Global Social Leaders and Global Governance Leaders). Terna has been a member of all three indices since 2011.
<b>BLOOMBERG GENDER EQUALITY</b>	This index measures companies' performance regarding gender equality issues. Terna has been included since 2019.
<b>EURONEXT VIGEO EIRIS</b>	Developed by the Vigeo Eiris rating agency, these indices are based on a population of companies listed on international markets. Terna has been a member of the World 120, Eurozone 120 and Europe 120 indices since 2012.
<b>ECPI</b>	ECPI has created sustainability indices and carries out research so as to provide additional non-financial information. Terna is, among others, one of the ECPI ESG Best in Class. Terna has been included since 2007.
<b>SOLACTIVE EUROPE CORPORATE SOCIAL RESPONSIBILITY</b>	This index has replaced the previous Ethibel Sustainability Index. It includes a basket of European shares selected by the Ethibel Forum. Terna has been included since 2009 (taking into account earlier membership of the Ethibel Sustainability Index).
<b>MIB ESG</b>	Launched in 2021, this is Italy's first blue-chip index focusing on ESG best practices. The index is based on the outcome of the periodic assessment conducted by the agency, Moody's ESG.
<b>GLIO/GRESG ESG</b>	Launched in 2021, this is the first index to specialise in an assessment of the best ESG practices adopted by companies that manage strategic infrastructure. Terna has been a member of the index since its inception.
<b>S&amp;P GENDER EQUALITY &amp; INCLUSION INDEX</b>	Launched in 2021, this index measures the performances of listed companies with respect to gender equality and inclusion. The index includes companies that have received the highest S&P Global Gender Diversity Scores, calculated on the basis of the results obtained in the S&P Global CSA (Corporate Sustainability Assessment).
<b>EURONEXT EQUILEAP GENDER EQUALITY EUROZONE 100 INDEX</b>	Launched in 2022, it includes 100 Eurozone companies that have shown that they are playing a major role in promoting gender equality.
<b>EURONEXT ESG EUROZONE BIODIVERSITY LEADERS PAB INDEX</b>	The biodiversity index, launched in 2022, selects companies with the best Moody's ESG ratings, the best performers with respect to an assessment of their "Corporate Biodiversity Footprint" conducted by Iceberg Data Lab.

# Outlook

2023 will see the Group continue to focus on delivering on the updated “Driving Energy” 2021-2025 Industrial Plan and in the recently presented 2023-2032 Development Plan, which envisages over 21 billion in investments over the next ten years. This will be done despite the highly volatile macroeconomic environment, marked by high global inflation, slowing economic growth, a tightening of monetary policies by central banks and rapidly rising interest rates, in addition to the geopolitical problems resulting from the prolonged conflict between Russia and Ukraine and continued tensions in the commodity markets, which are having a negative impact on the recovery from the Covid-19 pandemic. With specific regard to the investment programme, involving total investment of €10 billion in the five years from 2021 to 2025, the Group has set a target of approximately €2.2 billion for 2023.

The sharp acceleration in expenditure on **Regulated Activities** will continue with the goal of enabling the energy transition, facilitating the development and integration of renewable sources and making a major contribution to achieving the ambitious goals set out in the Green Deal, which aims to transform the European Union into a carbon-free economy by 2050, with an intermediate target of cutting emissions by approximately 55% by 2030 compared with 1990 levels.

In terms of the Group's most important investment projects, work is progressing on the Tyrrhenian Link, with consent for the East Link, due to connect Campania with Sicily, already received in 2022 and the consents process for West Link, connecting Sicily and Sardinia, formally initiated. This latter consent is expected to be received by the end of 2023. At the end of 2022, the consents process for the Adriatic Link, the new submarine cable that will connect the Abruzzo and Marche regions, was launched. The principal NTG assets due to enter service in 2023 include the interconnection with France and the submarine connection between Elba and the mainland.

Work on the reorganisation of electricity grids in metropolitan areas will also continue during the year, primarily involving the renewal of existing infrastructure with new technologically advanced connections meeting the highest standards in terms of environmental sustainability.

In terms of the Security Plan, work will continue on the planned installation of grid components supporting the regulation of short-circuit voltage and power in areas of the country characterised by a high level of production from renewable sources and a significant reduction in traditional production.

Finally, the Group will continue to make progress towards meeting the objectives provided for in the output-based incentive mechanisms drawn up by ARERA. These primarily regard additional transmission capacity between market areas (interzonal incentives) and reductions in dispatching costs (DSM incentives).

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With regard to **Non-regulated Activities**, the Terna Group will continue to consolidate its role as a provider of both connectivity, through the offer of housing and hosting services for fibre infrastructure, including in the form of partnerships, and energy solutions, developing high value-added services for corporate customers and exploiting market opportunities for traditional and renewable customers. This will include exploitation of the LT Group's know-how, following completion of its integration with Terna in 2022.

In the industrial segment, the aim is to build on Tamini's performance and, with regard to Brugg, take full advantage of its distinctive expertise in terrestrial cables and of synergies with the Terna Group's other businesses.

In terms of **International Activities**, the strategic assessment of further opportunities in overseas markets, focusing above all on the US market, will continue. This may take the form of partnerships and will involve the careful selection of projects with a view to ensuring a low risk profile and avoiding the need to tie up large amounts of capital. In addition, as regards the assets being sold, the process of selling the Peruvian assets will continue, with a sale expected to be completed in the first half of 2023, whilst work on the construction of the Linha Verde I power line in Brazil will continue.

In line with the approach adopted in 2022, the Group will focus on stepping up investment in innovation and digital solutions to continue the transformation that will enable it to manage the growing complexity of the electricity system. In addition, the Group's activities will focus on people development and the insourcing of strategic competencies, the strengthening of departments and optimising the working environment through the widespread adoption throughout the organisation of the best practices resulting from the **NexTerna** project.

Management of the Terna Group's business will continue to be based on a sustainable approach and respect for the ESGs, ensuring that it is able to minimise the environmental impact, involve local stakeholders and meet the need for integrity, responsibility and transparency.

Partly thanks to the above initiatives, including above all those designed to further increase the efficiency of the electricity system, Terna expects revenue for 2023 to be €3.11 billion, EBITDA to be €2.12 billion and an EPS of €0.43. With specific reference to the Investment Plan, due to total €10 billion over the five years from 2021 to 2025, the Group has targeted capital expenditure of approximately €2.2 billion in 2023. The above objectives will be pursued whilst maintaining a commitment to maximising the cash generation necessary ensure a sound, balanced financial structure.



AT 31 DECEMBER 2021

INPUTS

**8 patents** filed  
**69 projects** in the innovation portfolio

AT 31 DECEMBER 2022

OUTCOMES

**16 patents** (8 more than in 2021)  
**67 projects** in the innovation portfolio  
**113 suppliers** in categories relevant for ESG purposes (4 more than in 2021)

Birth of **Terna Forward**

**Marketing procurement**

(market scouting, benchmarking and surveys)

OUTPUTS



AT 31 DECEMBER 2021

INPUTS

**145,528 hours** of training

Safety indicator:  
**0.49** (target  $\leq 1$ )

**14.1%** Women in leadership positions as a percentage of total leadership positions

AT 31 DECEMBER 2022

OUTCOMES

**174,708 hours** of training (29,180 more than in 2021)

Safety indicator: **0.74** (target  $\leq 1$ )

**23.7%** Women in leadership positions as a percentage of total leadership positions (68% more than in 2021)

Reorganisation of the training model:  
launch of the **Terna Academy**

Birth of **Terna for Health & Safety**

**Increased presence of women** in the Company

OUTPUTS



AT 31 DECEMBER 2021

INPUTS

**87%** of investment in electricity infrastructure covered by local community engagement initiatives

AT 31 DECEMBER 2022

OUTCOMES

**96%** of investment in electricity infrastructure covered by local community engagement initiatives (10% more than in 2021)

**Increase** in local community engagement initiatives

OUTPUTS





Intellectual capital	178
Human capital	203
Social and relationship capital	232

# 4

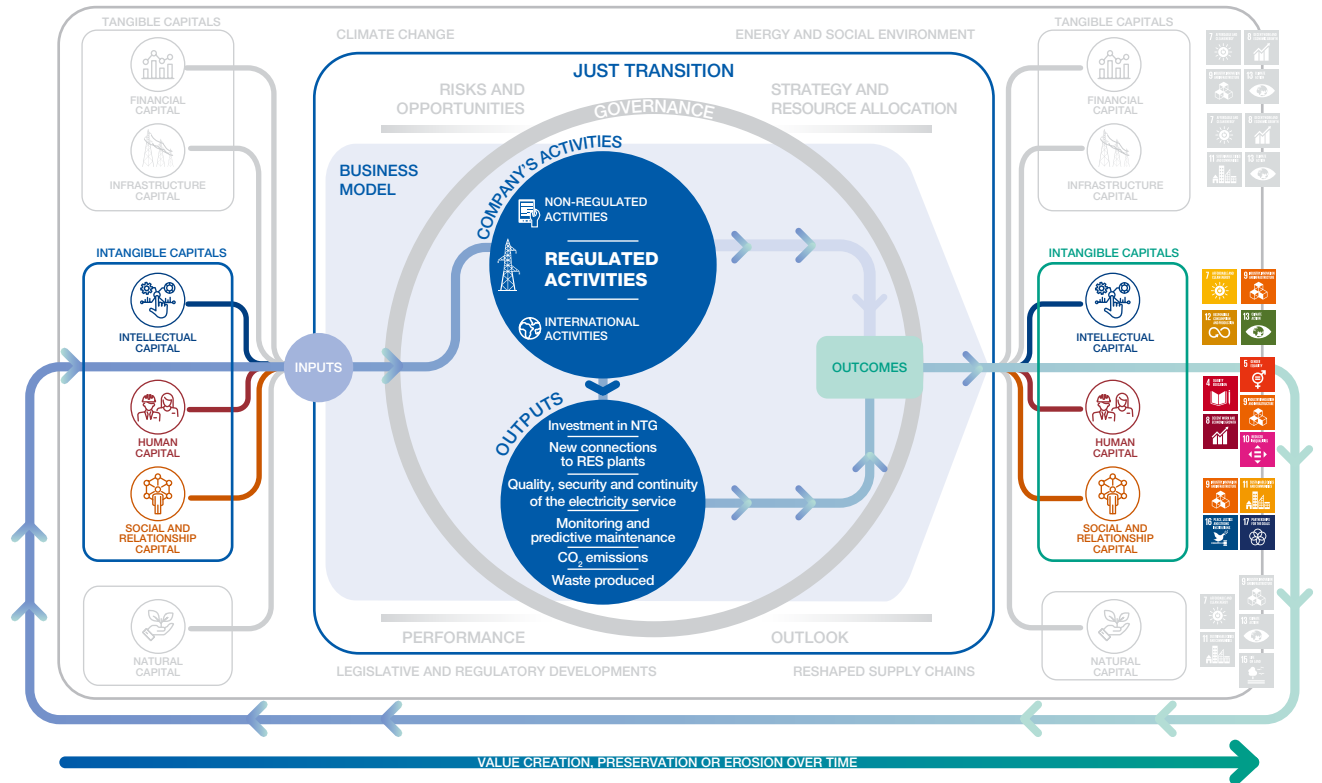
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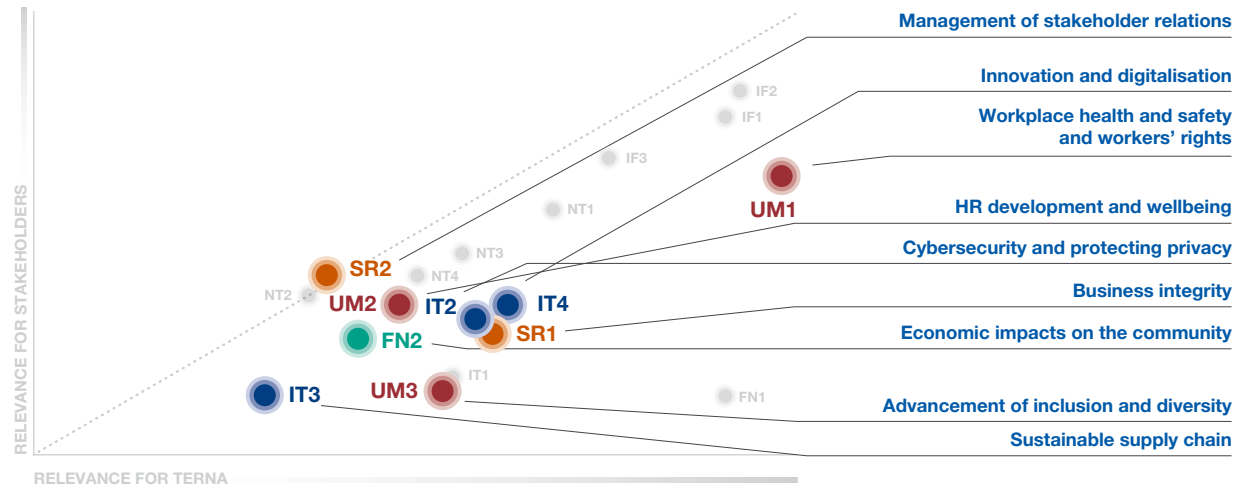
The contribution made by sustainability to the creation of value over time results in an increase in business model resilience through the management and measurability of the intangible capitals. Our role in enabling and driving the just transition means having constant access to adequate intangible capitals, such as intellectual capital capable of managing big data and carrying out innovation, human capital that is continuously updated in terms of expertise and motivated, and solid social and relationship capital to ensure that we are in the best possible position to manage stakeholder relations. The common denominator is our Code of Ethics, which establishes the values to be applied by all Terna's people as they go about their daily work and which is the basis for all our policies and guidelines.



VALUE CREATION



MATERIALITY



These infographics highlight the topics dealt with in this section with the aim of **facilitating information connectivity**: in this way, the section offers an overall view showing the links between all the factors that influence Terna's ability to create value over time and how they are dependent on each other. Material topics are indicated with a cross-reference in blue, showing the relevant code.

# Intellectual capital

Of all the forms of intangible capital, **intellectual capital** has the greatest overall impact. Its quality, and as a result its ability to create value, is in fact influenced by both **human capital**, in its widest sense that includes the strength of an organisation's values and those of its individual people in terms of skills, sense of loyalty and creativity, and **relationship capital**, which is the driving force behind the consolidation of the Group's reputation among all stakeholders.

**Innovation**, an enabling factor that cuts across all Terna's operations and has positive impacts on all forms of capital (see page 180), plays a vital role in the growth of an intellectual capital that is suited to meet the challenges and uncertainties of an increasingly complex market.

The main contribution this form of capital makes to Terna's business relates to the rapid consolidation of our role as a System Operator (SO), namely **driving a just energy transition**. This role is carried out alongside and amplifies the traditional role of TSO, which depends on a growing ability to analyse and properly manage big data relating to the performance of renewable sources to guarantee a constant supply of new flexible resources, essential to ensuring that the electricity system is **fit for purpose**, and, more generally, for the resilience of Italy's economic and social fabric.

The impact of intellectual capital and innovation on assets and the electricity system is dealt with at the beginning of this section of the Report that shows the results for 2022, presenting developments in the values forming the basis of the **Code of Ethics**<sup>62</sup> and, as such, the cornerstone of intellectual capital. In effect, this relates to compliance with the law, an essential element in ensuring ethical conduct of the business and further consolidation of sustainability governance as set out in several internal policies, as well as fiscal transparency, the growth of management systems and the oversight of aspects relating to human rights and the supply chain. The constant monitoring of all these areas is a key aspect of risk management.

<sup>62</sup> The Code of Ethics, approved by Terna's Board of Directors on 21 December 2006, defines the principles and rules of conduct voluntarily adopted to ensure that the Company operates with integrity. By setting out guiding principles forming the basis for internal policies and regulations, it effectively represents the Group's constitutional charter. It is available on Terna's website (<https://download.terna.it/terna/0000/0052/97.PDF>).

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## Management of the electricity system

Electricity **data is** without doubt Terna's most important content asset, one of the cornerstones of our intellectual capital.

This is the data that the TSO gathers and processes for the purposes of **managing the electricity system** (the information used by Dispatching, the nerve centre of the System Operator) and as the basis for on which it bases its **statistics, scenarios and analysis**, but also **processes, maintenance activities and the strategic development of assets**, indispensable within the context of the energy transition.

### System data and the intelligent network

Data on demand – meaning demand for electricity that the system is required to meet or the primary sources with which this demand is met (thermal, hydro, etc.) – is just one example of the most significant **data linked to management** of the system: originally of a provisional nature, as they are processed in real time on the basis of measurements and estimates, this data is then finalised in the **Annual Report on Operational data** and confirmed in the document on **statistical data on electricity in Italy**, partly thanks to the contributions from producers.

This data forms the basis for strategic documents and assessments, such as those relating to **future energy scenarios**. They are processed with the aim of evaluating the benefits of transmission grid development projects, as well as for the purpose of contributing to achievement of national policy goals. Instead, in the **Adequacy Report for Italy**, based on the same sources, Terna provides an assessment of the generation and storage resources needed to ensure the adequacy of the electricity system in the scenarios considered over a ten-year period. In this way, it is possible to establish the available capacity that will be sufficient to meet the country's decarbonisation targets within the set deadlines and, as a result, size the quantities of energy to be procured via capacity market auctions.

Another key area is the data on grid infrastructure gathered and used in combination with Terna's expertise and experience to produce analyses for use in planning, development, and maintenance of the national transmission grid (NTG). The most common high-voltage lines, the electricity cables that connect them and substations have over the years become a key network for collecting data necessary for the TSO's activities and increasingly useful to other members of our ecosystem, such as research centres or government institutions. This represents nothing less than an **intelligence network**, consisting of physical and virtual assets, engineering technologies and digital software, advanced sensors, processors, and models. The quantity of data processed in this way helps to produce the reports that play a key role in management and development of the grid, such as the **Resilience Plan**, enabling assessment of the interventions needed to ensure that the electricity system can withstand the extreme weather events that have become increasingly **frequent in recent years** due to climate change.

DNF

## Innovation

IT4

According to the “Innovation as a service” model, innovation focuses on initiatives that can generate impact on the Company’s business. Key **highlights of the period 2021-2022** include:

SASB

- **67** projects in progress at the end of 2022
- **16** patents granted
- **30** IP applications filed
- **22** tech scouting<sup>63</sup> and landscaping
- **228** ideas presented at the two editions of Terna Ideas

### Innovation model and process

Innovation serves the entire Company in the development of new solutions that can positively impact our business, with a view to constantly improving the service we provide. This fully integrated model gives a voice to Terna’s people, who may then actively participate in the evolution of the Group.

The Terna Group’s **innovation process**, divided into sub-processes in order to come up with concrete solutions to innovation needs in line with the Company’s strategic guidelines, is illustrated below. The solutions adopted respond to ambitions to map out the future of the Terna Group and the electricity system in the context of energy transition, to be achieved through innovation.

The Terna Group has identified a series of activities that serve as tools for enabling the above phases of the innovation process. These include:

**Innovation governance:** an iterative, cross-cutting tool that defines the design and development of processes and tools, which is implemented through planning, monitoring and reporting activities.

**Innovation ecosystem:** This takes various forms: partnerships with players of excellence (major corporations, national and international research bodies and institutes, universities), internal synergies within the Innovation Community including the active engagement of Terna Group people and key local players, and finally innovation programmes and initiatives in international ecosystems (International Antenna).

**Corporate venture capital:** this initiative regards equity investment in companies with high innovation and growth potential, which can be made directly (fresh capital injections for innovative start-ups and SMEs) and indirectly (participation in venture capital funds).

**IP process:** all Company departments are supported from the design phase and during all phases of the intellectual property protection process, including assessment of the most appropriate protection measures in a preliminary stage, and preparation of all the necessary checks, until a patent has been filed at the competent office. **Terna’s current patent portfolio includes 43 granted and/or filed applications, of which 9 new applications were filed in 2022.**

<sup>63</sup> **Tech scouting:** Identification of the most suitable technological solution (taking into account the degree of technological maturity, the technical requirements of the idea and its technological constraints), and seeking out the most suitable providers to meet the technological requirements of the idea.

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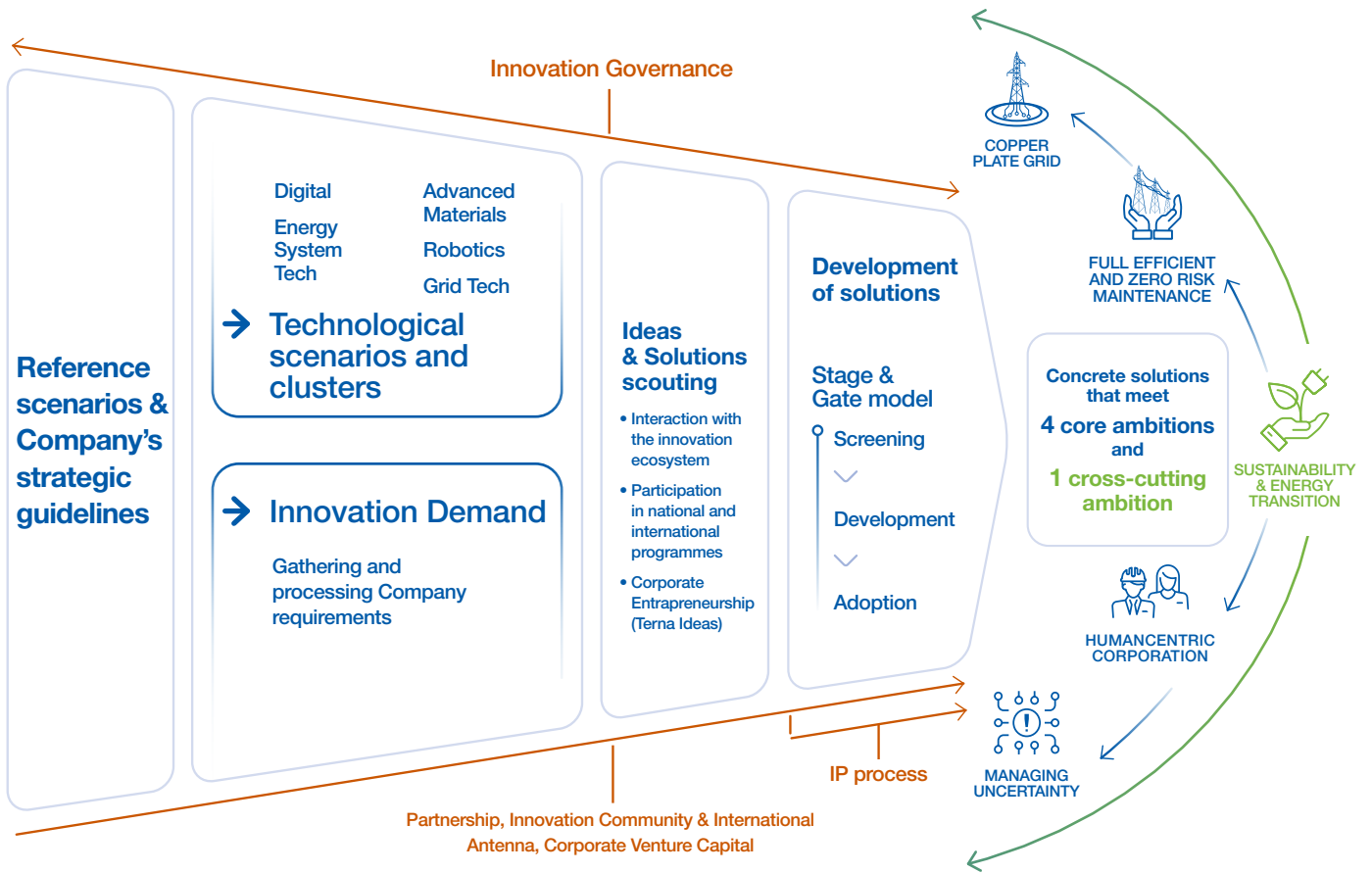
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## Key projects

The innovation process follows the Stage&Gate model (checking and validation sub-processes), from the screening of the idea to the adoption of the solution.

This model facilitates construction of an overview of innovation by accelerating high value-added projects. The results produced by the model then help to define planning, economic and strategic, and reporting activities.

Projects in progress in 2022 include:



### Osmose



Development and testing of innovative flexibility services provided by personnel on a section of the network between Apulia and Basilicata, in connection with three uses: congestion resolution; voltage regulation tests and secondary frequency regulation relating to demand-side response plants; and voltage regulation and synthetic inertia tests relating to wind power plants with and without electrochemical storage.

These innovative flexibility services reduce the cost of decarbonising the electricity system.

### Anti-icing and VALE (video analysis of power lines) systems



These systems respond to the need to mitigate and monitor the formation of ice coatings on ground wires, involving the experimental use of passive mitigation anti-icing systems, which consist of paints or coatings with strong hydrophobic properties, to be applied to the outer layer of ground wires.

Intelligent cameras (VALE project) enable identification of incipient ice coating formation, via integration of environmental temperature and humidity measurements with photographic stills taken in the field. This solution ensures greater resilience of the NTG during adverse weather events, and improved continuity of the electricity service.

### Automatic failure detection



In order to develop advanced solutions to support operational activities in the field, this project aims to identify any anomalies in the visible field present on HV power lines, by processing data collected via special instruments installed on Terna helicopters. Detection will be carried out via the development of an artificial intelligence algorithm, which will enable identification of component failures/faults via automatic image recognition. Safety will thus be enhanced via AI techniques that support decision making.

### Virtual collaboration – TernaVerso



This project develops and incorporates new virtual collaboration technologies into Terna's systems, which enable everyday work and relational activities to be experienced in an immersive and emotional way within a Terna brand virtual universe. The project thus ensures improved corporate collaboration and interaction via virtual spaces and Terna sites that enable new forms of collaboration and interaction.



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# FOCUS

## Terna Forward S.r.l.



IT4

Established by Terna on 11 November 2022 as a special technological innovation vehicle, this company is aimed at accelerating the Terna Group's high-impact technologies, including via corporate venture capital investments, with an initial amount of €50 million. Terna Forward is responsible for identifying the best technological opportunities and transferring them to other Group companies, as well as leveraging its expertise within the electricity system to create and incubate spin-offs from innovative projects.

The three main areas of operation of the newly established company are: **Corporate Venture Capital** (minority equity investments in innovative companies and SMEs in line with Terna's strategy and participation in Corporate VC funds); **Venture Building** (business development service for the creation/incubation of spin-offs dedicated to new products and/or services, by leveraging core competencies); **and excellence partnerships, Accelerators and Laboratories** (partnerships for medium to long-term initiatives designed to implement high impact projects for the Terna Group and create accelerators and laboratories on vertical themes in line with Terna's strategy.

The areas of application identified will include, among others, the use of mechatronics (robots, drones and exoskeletons), strategic technologies with a strong growth outlook, which the Company already uses for asset monitoring and maintenance. Terna Forward will develop and test new solutions, which may also relate to safety aspects and improving the working conditions of our technical personnel. In the short term, the aim is to set up a partnership to develop the first laboratory experiments and field test the prototypes built on use cases, including: robots for work on power lines and pylons, use of exoskeletons on site and in the field, and drone inspections of power stations. In the long term, Terna will extend the application of these technologies to the entire national electricity grid, namely approximately 75,000 km of power lines and around 900 electricity substations operated by the Company across Italy.



## Ethics and intellectual capital

All of the aspects dealt with below make close reference to the values contained in the Code of Ethics, which forms the basis of a part of Terna's intellectual capital, in terms of the structured organisation of policies, guidelines and operating instructions designed to create value.

Adherence to the general principles of legality, integrity, and responsibility, allied with those specific to Terna, relating to sound management, respect, fairness, and transparency, provides the ethical basis for the company's day-to-day conduct of its business.

DNF

### Respect for human rights

UM1

SR1

The Terna Group operates mainly in Italy, where the regulatory framework and the level of civil development largely guarantee respect for human rights, freedom of association and collective bargaining. However, Terna pays constant attention to respect for human rights and is committed to adopting minimum protection standards where such standards are not guaranteed by local laws.

2-23 >

SASB

The Company shares the principles of protection of human rights as expressed in the **UN Universal Declaration of Human Rights** and the International Labour Organisation's **Declaration on Fundamental Principles and Rights at Work**, which was reaffirmed in 1999 in the Ten Principles of the UN Global Compact. Consequently, Terna is committed to preventing the risk of negative impacts on these rights as a result of its activities - directly or through business relationships with third parties - in line with the **UN Guiding Principles for Business and Human Rights** endorsed by the UN Human Rights Council in June 2011<sup>64</sup> and reaffirmed by the **Guidelines for Multinational Enterprises issued by the OECD**.

The Group's approach to the cause of human rights has been gradually updated over time, following the evolution of international reference standards. This was strengthened in 2021 by the update of the **Terna Group's Respect for Human Rights policy** and the drawing up of the **Diversity & Inclusion (D&I) policy**.

The Group's commitment to support the respect of human rights in its sphere of influence is manifested through compliance with legal regulations in all the countries where it conducts business activities, and also via the definition and application of its own rules of conduct, which are vital in countries where the legal system does not provide for compliant human rights protections. These rules also incorporate subsequent international guidelines and documentary references.

The Group's focus on the issue of human rights is also reinforced by the definition and implementation of a **due diligence process**, based on identification of the potential impacts of Terna's activities on human rights, as well as subsequent assessment of the fitness for purpose of the mitigation measures adopted. This activity is aimed at assessing possible interactions between Terna's activities and human rights relating to its stakeholders and has led to the creation of a map of the activities most exposed to the risk of negative impacts.

<sup>64</sup> In 2011, the UN Human Rights Council endorsed the Guiding Principles on Business and Human Rights, drawn up by Prof John Ruggie on the basis of three pillars (Protect, Respect, Remedy) that constitute its framework. The first pillar urges states to adopt specific human rights protection legislation in their national legal systems and to strengthen it where it already exists. The second pillar enshrines the responsibility of business enterprises to respect internationally guaranteed human rights regardless of the state of development of local legislation in this area and identifies the due diligence process as the most appropriate operational tool for risk mapping and prevention. The third pillar regards the need to guarantee victims access to an effective remedy. This is achieved, on the one hand, through states' responsibility to remove any regulatory and non-regulatory obstacles preventing access to the remedy, and, on the business enterprise side, through activation of complaint mechanisms that enable any alleged infringement matter to be raised. Business enterprises should also commit to cease and desist any negative impact they may have caused.

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## Protecting legality and integrity

The Code of Ethics calls for compliance with the principles contained in the United Nations **Global Compact**. This approach was confirmed in 2009 with Terna's formal membership of this international initiative, thus consolidating our commitment to adhering to the ten principles covering human rights, labour, the environment, and the prevention of corruption and, subsequently, to achieving the Sustainable Development Goals (the 17 SDGs) set out in the United Nations 2030 Agenda.

Legality and honesty are thus two of the general principles on which Terna's Code of Ethics and the conduct of its business are based. They are also set out in the Human Rights Policy, as commitments the Company has undertaken in close correlation with its activities, regarding all stakeholders.

DNF

SR1

< 2-23

< 2-24

SASB

## Compliance with legislation

**Compliance with the law is the necessary starting point for any voluntary improvement initiative.** A summary of administrative or judicial sanctions and any significant court judgements regarding Terna is provided below. Also considering the indicators contained in the GRI Standards, Terna's compliance performance is illustrated below:

- No significant procedures of an administrative or judicial nature, resulting in final judgements or in fines or court injunctions (e.g., prohibitions), were registered in 2022 or in the previous two years, nor did any of its employees receive criminal convictions (full compliance regarding both environmental and socio-economic matters). < 2-27
- In particular, the accounting records for 2022 do not show any pecuniary sanction of an administrative nature, with a fine or penalty more than €10,000 relating to environmental matters<sup>65</sup>. < 2-27
- There were no legal proceedings pending against Terna in relation to corruption, antitrust or monopoly practices, nor were any court judgements handed down against Terna regarding these matters in 2022 or in the previous two-year period. < 205-3  
< 206-1
- There were no pending criminal proceedings for injuries caused to third parties by any of Terna's assets. There were 3 accidents in 2022 (1 in 2021 and 4 in 2020). < EU25
- No accidents affecting contractors' employees whilst carrying out work commissioned by Terna were registered, where such accidents gave rise to final court judgements ordering Terna to pay damages or resulted in criminal convictions for Terna's employees.
- There is no record of charges brought, in 2022 or in the previous two-year period, in relation to harassment or occupational injuries affecting employees or former employees, in which Terna's liability was definitively established.

<sup>65</sup> With reference to the previous two years, the accounting records do not show any pecuniary sanction of an administrative nature, with a fine or penalty in excess of €10,000 relating to environmental matters. However, it should be noted that in 2018 Terna Rete Italia S.p.A. registered a payment of €12,091. This amount relates to the penalty issued by the Municipality of Pegognaga (MN) for violation of the municipal regulations regarding the protection of urban and suburban green spaces.

## SR1 Taxation

207-1 > In line with the principles of **transparency and legality** set forth in the Code of Ethics, the Terna Group's approach to taxation is governed by **full compliance with tax legislation** in the countries where the various Group companies operate.

This approach meets our obligation to make an economic contribution to the territories in which we operate. In these countries, overall tax revenue represents an essential contribution to public expenditure and, thus, to economic development and the social welfare of citizens.

207-2 > In particular, the principles of the Code of Ethics are inspired by the Group's **Tax Strategy**, which was recently adopted by Terna S.p.A. to define the objectives, the tone at the top and the Company's propensity for risk in relation to the tax variable, and to promote behaviour based on cooperation and transparency in dealings with the tax authorities and third parties. This enables minimisation of any substantial impact in terms of risk, whether fiscal or reputational, as well as implementation of a sustainable business model aimed at creating, protecting, and distributing value to all stakeholders in the medium-long term.

In line with this approach, the Group's tax governance and conduct are inspired by principles of correct and timely determination and settlement of legally due taxes, implementation of related obligations and reduction of tax risk.

The Group's Tax Unit, with support from external consultants, is responsible for assessments and keeping up with regulatory changes. Any controversial aspects are addressed and discussed with associations to which the Group belongs (e.g., ASSONIME) and, in some instances, brought directly to the attention of tax authorities, via requests for rulings, and - with a view to the future - through the establishment of constant, prearranged discussions with the Italian tax authorities, should Terna S.p.A.'s request to join the Cooperative Compliance regime, submitted in December 2022, be granted.

In Italy, the conduct of the Group's Regulated Activities under a government concession requires compliance with the criteria of transparency and legality, also from the standpoint of tax policies.

Overseas, the Group's Non-regulated Activities are primarily focused on the construction and/or management of power lines. Our activities are not, therefore, in any way influenced by tax planning concerns, but rather by the real prospect of achieving economic development, with a view to diversifying and exploiting business opportunities in our sector of operation. This is borne out by the fact that even in countries where the corporate tax rate is higher than in Italy (Latin America). Moreover, such activities are generally carried out based on concessions, with the revenues determined by local regulatory authorities. Thus, there is an underlying assumption that Group companies are wholly committed to respecting local tax regulations.

The main processes governing taxation and the related obligations are constantly monitored based on procedure 262. In 2022, the Group further bolstered its own tax risk internal control system by adopting a **Tax Control Framework**, an organisational model aimed at managing tax risk that is included in the corporate governance and internal control system, in accordance with best practices and in line with the requirements of the relevant tax regulations. The adoption of this organisational model is an essential requirement for Terna S.p.A.'s access to the **Cooperative Compliance** regime governed by Legislative Decree 128 of 5 August 2015 and subsequent provisions. This regime is aimed at increasing the degree of certainty regarding relevant tax issues through constant, prearranged discussions with the tax authorities on specific matters, with a view to jointly evaluating situations that are likely to generate tax risks.

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In 2022, adaptation of the 231 Organisational Model to bring it into line with regulatory changes made during the year relating to the application of predicate offences, was also completed.

As in 2021, the Group's **Transfer Pricing policy** was also defined in 2022. This aimed to ensure correct determination of the arm's-length price of intercompany transactions carried out on a transnational basis, with the drafting of the specific documentation (the Master File and the Local File) called for by Italian legislation. The adoption of a Transfer Pricing policy was specifically noted in the tax returns for 2022 submitted by the Group companies that engage in overseas transactions.

In the case of especially significant tax issues or when there is a high level of uncertainty, the Company relies on options provided for by tax provisions, such as requests for rulings or advance tax agreements with the tax authorities. < 207-3

Lastly, it should be noted that on 23 December 2022 an application was submitted to the tax authorities requesting Terna S.p.A.'s admission to the collaborative compliance regime. As already mentioned, the cooperative compliance regime is aimed at increasing the degree of certainty regarding relevant tax issues through constant, prearranged discussions with the tax authorities on specific matters, with a view to jointly evaluating situations that are likely to generate tax risks.

The following table shows key data on taxation relating to Terna and its subsidiaries (in €m). < 207-4

((€m))

COMPANY	PRE-TAX PROFIT/LOSS	PROPERTY, PLANT AND EQUIPMENT	INCOME TAX EXPENSE FOR THE YEAR	INCOME TAX PAID DURING THE YEAR	REVENUE FROM INTRAGROUP TRANSACTIONS
TERNA S.P.A.	1,169.4	14,252.8	334.8	334.8	58.6
TERNA RETE ITALIA S.P.A.	23.2	54.4	8.1	4.3	473.8
RETE S.R.L.	66.7	1,093.2	17.2	28.4	129.7
TERNA CRNA GORA D.O.O.	7.5	197.2	1.9	0.0	15.1
TERNA ENERGY SOLUTIONS S.R.L.	(1.9)	6.8	0.5	1.6	12.9
GRUPPO TAMINI	2.3	35.6	0.9	2.0	31.9
AVVENIA THE ENERGY INNOVATOR S.R.L.	(0.1)	0.5	0.0	0.0	2.3
TERNA INTERCONNECTOR S.R.L.	11.2	0.0	3.1	0.0	14.2
PI.SA 2 S.R.L.	0.0	0.0	0.0	0.0	0.0
TERNA PLUS S.R.L.	(35.4)	0.6	(2.4)	0.0	0.9
TERNA CHILE S.P.A.	(0.2)	0.0	0.0	0.0	0.0
SPE SANTA MARIA TRANSMISSORA DE ENERGIA S.A.	3.4	0.10	0.40	0.0	0.0
SPE SANTA LUCIA TRANSMISSORA DE ENERGIA S.A.	10.1	0.80	3.40	0.0	0.0
TERNA PERÙ S.A.C	(0.4)	0.0	0.30	0.0	0.0
DIFEBAL S.A.	1.6	0.0	(1.2)	0.0	0.0
TERNA 4 CHACAS S.A.C.	(0.2)	0.0	(0.10)	0.0	0.0
GRUPPO BRUGG	(4.3)	40.6	(1.5)	0.0	0.4
ESPERIA-CC S.R.L.	0.1	0.0	0.0	0.02	0.0
GRUPPO LT	4.4	1.8	1.2	0.0	13.1

The difference between income tax due on companies' net profit or loss and tax payable reflects payments on account made by the Terna Group during the year. Reconciliation of the statutory and effective tax rates, presented in the notes to the consolidated financial statements, is primarily linked to the combined effect on taxation of income and expenses that do not affect determination of the tax base, as provided for in the related legislation.

### IT2 Data protection

In 2022, Terna S.p.A., Terna Rete Italia S.p.A., Terna Energy Solutions S.r.l. and Terna Plus S.r.l. confirmed the **Privacy Management Framework**, published in 2021. This provides a specific framework for the division of responsibilities and the adoption of appropriate behaviour and tools to safeguard personal data.

In addition to the regular process of keeping pace with existing legislation, the main activities during the year included the revision of certain key policies and the preparation of new guidelines, operating instructions and privacy notices, with the aim of enhancing privacy compliance.

On the regulatory compliance front, internal and external audits were carried out, the latter regarding suppliers appointed as data controllers, pursuant to art. 28 of the GDPR. Specifically, the internal audits regarded (i) the process of managing and preventing data breaches; (ii) the processing of personal data relating to reputational databases; (iii) the processing of personal data carried out via the corporate car sharing system; (iv) the processing of special data, focusing mainly on processing carried out in the context of the Covid-19 epidemiological emergency. With reference to the external audits, five suppliers who carry out particularly sensitive personal data processing activities on Terna's behalf were selected for the audits.

Also during the year, pursuant to art. 35 of the GDPR, the Data Protection Officer gave advice on carrying out data protection impact assessments of specific projects, in order to mitigate potential risks to data subjects' rights and freedoms.

In 2022, support regarding compliance with personal data protection regulations continued to be provided to the subsidiaries Tamini Trasformatori S.r.l., Avvenia the Energy Innovator S.r.l. and LT S.r.l.

Regarding data protection training, a GDPR course was developed consisting of educational videos that can be accessed via the Company's intranet. Lastly, a data protection training course consisting of six modules and aimed at Privacy Focal Points was also provided, as well as specific vertical courses for members of certain Company departments involved in data processing.

418-1 > As in previous years, no complaints have been received regarding data protection violations, or improper use or unauthorised processing of personal data entrusted to Group companies, neither via the dedicated mailbox ([privacy@terna.it](mailto:privacy@terna.it)) nor through other reporting or communication channels (e.g. [dpo@terna.it](mailto:dpo@terna.it)).

### SR1 Preventing corruption

2-24 > 205-1 > The Group's commitment to fighting corruption is inspired by the Code of Ethics and the tenth principle<sup>66</sup> of the Global Compact and is also aimed at guaranteeing full respect for human rights. The main instruments adopted are described below.

### ISO 37001 certification

In January 2017, Terna was the first Italian company to obtain **ISO 37001 certification for its Anticorruption management system**, which covers the Parent Company as well as Terna Rete Italia, Terna Plus and Terna Energy Solutions for all the Italian operations. As part of this system, 28% of business processes were subject to Risk Assessment involving implementation of 14 Risk Assessment forms in 2022; the cumulative figure for 2018-2022 is 76%.

Finally, it should be noted that in November 2022 the Tamini Group also obtained certification of its Anticorruption management system in accordance with the ISO 37001:2016 standard, thereby strengthening the Terna Group's oversight of ethical issues.

<sup>66</sup> Businesses should work against corruption in all its forms, including extortion and bribery.

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## Spreading awareness among personnel

In addition, **2,000 hours of training** were provided on anticorruption issues, including the lectures given as part of the course on *Business ethics and compliance with Legislative Decree 231/01*, aimed at new hires, during which the main topics relating to the ISO 37001 Anticorruption Management System (anticorruption policy, risk analysis, anticorruption due diligence), the Code of Ethics, whistleblowing and the 231 Organisational Model were presented. Activities continued during the year to raise the awareness of the relevant people with the publication of 12 Anticorruption Management System newsletters, including content on combatting corruption and whistleblowing.

### Training on anticorruption

< 205-2

	UNIT OF MEASUREMENT	2022 (*)	2021	2020
<b>Participants in the Anticorruption course</b>	<b>no,</b>	<b>1,637</b>	<b>337</b>	<b>370</b>
%	%	37.4	8.2	9.5
Senior managers	%	19.9	12.5	6.0
Middle managers	%	39.6	7.4	12.6
Office staff	%	45.5	12.0	12.8
Blue-collar workers	%	17.2	0.0	0.1

(\*) For the 2022 data, the topic of Anticorruption was included within the 231 Organisational Model. Therefore, the numbers of participants and hours provided were calculated by including the participants and the hours provided within the 231 Model.

Since February 2022, an online course entitled The Terna Group and Legislative Decree 231 has been provided to the entire workforce, aimed at raising awareness of and disseminating rules of conduct (e.g., the Code of Ethics) and procedures established in order to prevent unlawful behaviour, and to train and inform staff about areas of risk and potential crimes associated with the Company's activities. This course has also been provided, monthly, to all new hires.

## Whistleblowing

< 2-26

In 2016, Terna adopted **Whistleblowing Guidelines**, which were updated in 2018, to manage reports of violations of the Terna Group's internal control and risk management system. The Guidelines set out the organisational arrangements for handling such reports and establishes the various responsibilities at each stage of the process. The policy also covers all aspects of security, above all regarding protection of the anonymity of the whistleblower, but also that of the accused. Moreover, in line with existing national and international best practices and the relevant legislation (L.179/2017), Terna has set up three reporting channels, including an online channel: the *Whistleblowing* web portal, which features secure protocols and encryption tools to protect the personal data and information it contains. Via this portal, a whistleblower may report irregularities or misconduct pursuant to Legislative Decree 231/2001. The truthfulness and reliability of the disclosure is verified through several procedural steps, in which confidentiality and security relating to personal data protection and the processing of information are guaranteed (for more information, see <https://whistleblowing.terna.it>). In addition to the online portal, disclosures may be sent by e-mail to [whistleblowing@terna.it](mailto:whistleblowing@terna.it), or by ordinary mail with a registered letter to Terna's Audit Manager marked *Confidential - whistleblowing*.

## Clarifications regarding the Code of Ethics and the reporting of violations

< 2-26

About compliance with the Code of Ethics, employees as well as other external stakeholders seeking clarification or who wish to file a disclosure, may use the three reporting methods described in the above paragraph.

The procedure for handling disclosures involves verification and investigation by the Audit Manager, who, at the end of the preliminary investigation, submits the outcome to the Ethics Committee.

The Ethics Committee – which was established to provide internal and external stakeholders with a specific communication channel for matters relating to the Code of Ethics and whose members are appointed by the CEO – is the body responsible for examining the whistleblowing disclosures received and making decisions regarding their management and closure. The Ethics Committee provides guidance and promotes investigative procedures and any further actions needed through the departments from time to time involved.

406-1 > **None of the disclosures received and examined in 2022 regarded episodes of discrimination or harassment**

The reports received in 2022 are shown below.

**Number of disclosures received**

	2022	2021	2020
<b>Total disclosures received<sup>(1)</sup></b>	<b>9</b>	<b>4</b>	<b>5</b>
<i>Areas of operation for which disclosures were received<sup>(2)</sup></i>			
- Treatment of employees	2	1	1
- Supplier management	-	-	1
- Environment and Safety	3	1	-
- Corruption	-	-	-
- Corporate loyalty	1	-	-
- Terna's Compliance /Other	3	2	3
<i>Outcome of disclosures</i>			
- Unsubstantiated	4	-	4
- Action taken <sup>(3)</sup>	5	3	-
- Under investigation	-	1	1

<sup>(1)</sup> In 2022, four disclosures were sent to the Audit department to the whistleblowing email address and five via the whistleblowing portal. In 2021, two reports were sent to the Audit department by email and two via the whistleblowing portal. Three of the four were substantiated and action was taken in one case. In 2020, three disclosures were sent to the Audit department by mail/ email and two via the whistleblowing portal.

<sup>(2)</sup> Each disclosure or infringement may relate to any number of areas of operation.

<sup>(3)</sup> Action may take the form of a sanction and/or another form – such as, for example, the revision of procedures, internal controls, etc. – with the aim of avoiding a repetition of the event giving rise to the disclosure. In this regard, four disclosures resulted in investigations and information gathering on existing procedures; in one case, information was sought and assessed with a view to revising a company protocol.

**Other initiatives**

In 2022, Terna took part in several multilateral activities, with the aim of ensuring oversight of the Company's compliance with international best practices. Via the Compliance department, the Company supported:

- the Business 20 (B20) **Integrity and Compliance Task Force** for combating corruption and strengthening integrity and transparency in corporate business. These values are shared by Terna, in the awareness that a strong ethical culture enhances our ability to attract investors, customers and talented professionals. Terna participated in the drafting of the task force's policy paper, in which the following four macro-recommendations were set out: 1. *Promote sustainable governance in business to support ESG*; 2. *Foster collective action to alleviate integrity risks*; 3. *Foster agility in counteract measures to combat money laundering/terrorist financing risks*; 4. *Strengthen governance to mitigate exacerbated cybercrime risks*;
- the **Anticorruption Committee** established by Business at OECD (BIAC), an international business organisation representing business, trade unions and NGOs at the OECD, which connects companies with the OECD and its governments;
- the **Business Integrity Forum (BIF)** conference held in September 2022 at the Sant'Anna School of Advanced Studies in Pisa, during which Terna contributed - including with a speech by Chairman Valentina Bosetti - to the promotion of the Company's initiatives to spread a culture of integrity, the implementation of business sustainability governance, and the enhancement of the statements of the Compliance corporate body.



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## Transparent and open construction sites

Since 2015, Terna has published **Transparent and Open Construction Sites**, a web space that can be accessed from any device. The space contains information on the contracts, contractors and subcontractors involved in the construction of Italy's major electricity infrastructure projects, as well as the state of progress of the major infrastructure works, the number of companies that took part in the tender, and the company name of the contractors who won the contract. This complex IT tool, which has obtained Anticorruption certification 37001, was created thanks to the contribution of Terna technicians working nationwide.

Overall, the Terna Group has adopted four approaches to preventing corruption: the 231 Organisational Model, Fraud Management, monitoring of the trustworthiness of Terna's counterparties and spreading awareness among personnel (see page 189).

## The 231 Organisational Model

The 231 Organisational Model (hereinafter the Model) defines rules of conduct and of internal organisation, within a structured and organic system of controls and monitoring activities, which are designed to prevent the commission of the various types of crimes envisaged by the Decree, and to ensure that the Company conducts its business and activities in a fair and transparent manner, with the aim of protecting the Company's position and image and meeting its stakeholders' expectations. In particular, the Model sets out rules to prevent various types of offence from being committed, some related to corruption and some to other concerns such as the environment and human rights.

In its current form, Terna's Model breaks down into two sections: a general section and a special section, subdivided by business process. On 22 December 2022, the Model was updated following a number of regulatory changes:

- **Offences relating to payment instruments other than cash**, which punishes conduct relating, for example, to the improper use, falsification and alteration of credit cards or any other instrument enabling the withdrawal of money or the purchase of goods and services (new 231 offence);
- **Offences against cultural heritage**, which punishes conduct relating, among other things, to the theft of cultural goods, including archaeological finds, as well as damage to landscape assets (new 231 offence);

and the amendment of certain offences already referred to in Legislative Decree 231/2001 and considered by the Model.

As provided for in the Model itself, responsibility for ensuring compliance with the Model's provisions and its effectiveness, reporting any deficiencies, anomalies, and breaches and, when necessary, its revision, lies with the Supervisory Board, whose members are appointed by the Board of Directors. In 2022, 8 meetings of Terna S.p.A.'s Supervisory Board were held.

Reports of any infringements of the 231 Model may be sent to the email address [OdV\\_Terna@terna.it](mailto:OdV_Terna@terna.it), or by ordinary mail. During 2022, no infringements of the 231 Model were reported.

### 2-23 > | The Global Compliance Program

In November 2017, the Board of Directors approved the **Global Compliance Program (GCP)** and the **Anticorruption Guidelines**, which are applicable to all the Group's Italian and overseas companies subject to prior approval from their respective Boards of Directors, in line with international best practices that promote a top-down approach. The GCP, which was updated on 2 December 2022, is a special procedure designed to harmonise overseas companies' efforts to promote compliance with the principles of ethics, integrity, and legality; to prevent corporate criminal liability and provide a shared, consistent and uniform approach to possible misconduct; and to strengthen the internal control system to bring it in line with the latest leading best practices and regulations applicable to compliance programs.

The GCP sets out senior management's commitment, to be replicated in overseas companies, regarding the promotion and definition of a culture of ethics and compliance, via a clear message urging absolute compliance with the Group's principles of ethics, integrity, and legality, which is embodied in the definition and dissemination of guidelines, procedures and policies aimed at regulating this commitment in order to prevent misconduct (top level commitment). The recent update has brought the Global Compliance Program closer into line with the Model pursuant to Legislative Decree 231/2001 recently adopted by Terna in accordance with a process-based approach. For each overseas Group company, the update envisages the adoption of a specific Country Annex, as an integral part of the GCP, to guarantee greater structural coherence and synthesis in the description of the various corporate regulatory instruments adopted by an overseas company, in accordance with the GCP Group guidelines and in implementation of local regulations relating to corporate liability. Joint governance oversight is also provided by a **Compliance Officer**, who ensures adequate monitoring, training, and information processes regarding all these documents.

### 2-23 > | Fraud Management

The Fraud Management unit guarantees protection of the Company's reputation and image, as well as tangible and intangible resources, through continuous monitoring of the prevention and management of fraud events that might negatively affect the Organisation, exposing it to risks of a financial and reputational nature, and at the same time jeopardising the pursuit of business objectives.

The fraud management process is inspired by industry models and best practices, as defined by the Association of Certified Fraud Examiners (ACFE), the Institute of Internal Auditors (IIA) and the American Institute of Certified Public Accountants (AICPA), which envisage the organisation of an effective fraud risk management system in the successive phases of assessment, prevention, detection, and investigation. In 2022, the fraud management unit carried out:

- **checks** on 4 sensitive support processes relating to 13 corporate units with the aim of testing existing control measures/ good practices and identifying others to strengthen the anti-fraud control system. The checks, involving a total of 21 people, focused specifically on such issues as compliance with the principles of segregation of roles, traceability of actions carried out and the plurality of the persons involved. No major shortcomings were found, and in general a high degree of commitment and sensitivity to ethical and integrity issues was noted.
- a process of **continuous monitoring of sensitive events** that may also indirectly give rise to critical issues for Terna and/or identify new fraudulent schemes that could potentially be implemented to the detriment of the Terna Group. This activity, involving constant monitoring of news and data relating to police and media actions and investigations, revealed no elements with a negative financial or reputational impact on the Terna Group.

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- **detection activities** to identify red flags and potential signs of fraudulent behaviour, through analysis and correlation of data and information. This area of activity includes the definition of an advanced predictive model for monitoring Terna's suppliers and subcontractors, aimed at preventing the risks of penetration of procurement contracts by organised crime. The model, which is based on more than 150 performance indicators and specific complex risk indicators, supplements the predictive assessment of the crisis and risk scenarios arising from the Covid-19 emergency with an analysis of the changed socio-economic environment and identification of new fraud scenarios. The monitoring regarded **6,180** legal persons who have had direct dealings with Terna over the last five years.
- **investigation activities**, which did not reveal any significant vulnerabilities or critical issues for the internal anti-fraud control system.
- a **course on anti-fraud issues**, aimed at informing and raising the awareness of Terna personnel.

## Trustworthiness monitoring of Terna's counterparties

As a further guarantee of reducing reputational risk and also maintaining high ethical standards among third parties, Terna carries out thorough **due diligence** on counterparties that enter into relations with Group companies, including during extraordinary transactions, paying particular attention to Anticorruption and anti-money laundering "red flags" as well as to transactions in countries/with counterparties potentially at risk of restrictive measures issued by EU and international authorities, which entail restrictions on the free movement of goods (sanctions), or with countries with preferential tax treatment (tax havens). **1,734** counterparty checks were carried out in 2022.

In 2022, with the aggravation of geopolitical tensions, the internal procedural framework was strengthened, especially regarding aspects of the international sanctions control and monitoring system, with reference to the Group areas most involved with international contractors.

## ESG performance monitoring

The growth and consolidation of intellectual capital go hand in hand with full integration of sustainability into the business model, including:

- consideration of ESG risks (see pages 86-87);
- consequent definition of objectives to mitigate such risks (see pages 45-47);
- constant monitoring of non-financial performance;
- definition of programmes (and subsequent actions) aimed at increasing the sustainability of the business model (see pages 45-47).

The identification, management and monitoring of these issues are the responsibility of the Investor Relations and Sustainability unit of the External Relations, Institutional Affairs and Sustainability department, which interacts across all corporate entities and is included, as a second level of control, in the Group's Enterprise Risk Management (ERM) framework (see pages 82-83) and periodically reports to the Audit, Risk, Corporate Governance and Sustainability Committee (see page 74-75).

An example of this mode of operation is the constant interaction with Management Systems – headed by the Quality and Risk Management department – which, via the Integrated Management System, optimises the coordination of all parties involved in monitoring quality, environmental performance, and occupational safety within the scope of a large, unified Group sustainability project.

DNF

## Integrated Management System

The **Integrated Management System** is the tool that – via certified management systems – optimises coordination of all the units responsible for overseeing business processes. It is also an important risk management tool because it ensures the effectiveness and efficiency of systems and highlights potential risks in the areas under observation. The Integrated Management System also plays a key role in stakeholder engagement, by monitoring and measuring issues of interest to stakeholders, and keeping a constant eye on improvement, thereby helping to boost transparency and trust in stakeholders' relations with the Group.

The Integrated Management System covers all the Italian and international activities of Terna S.p.A., and its subsidiaries, Terna Plus S.r.l., Terna Rete Italia S.p.A., Terna Energy Solutions S.r.l. and Terna Crna Gora d.o.o. It does not include Tamini Group companies, which have their own quality, environmental and safety certifications, and the companies operating in South America.

In 2022, the Terna Group renewed its ISO 9001:2015 (Quality Management System), ISO 14001:2015 (Environmental Management System), ISO 45001:2018 (Occupational Health and Safety Management System) and ISO 37001:2016 (Anticorruption Management System) certifications, and maintained its ISO 55001:2014 (Asset Management System), ISO 50001:2018 (Energy Management System), ISO/IEC 27001:2013 (Information Security Management System - TIMM area) certifications, as well as the Biosafety Trust certification (Infection Prevention Management System) for the via Galbani 68/70 and 55 sites. In addition, checks were carried out to maintain the ISO 17025:2018 accreditation for the multi-site live-line working test laboratory and the multi-site calibration centre.

## FOCUS

### Terna certifies the Compliance Management System in accordance with the new ISO 37301:2021 standard

In line with the Company's distinctive approach, aimed at always ensuring the utmost quality of the business model via monitoring of business processes, in March 2022 Terna implemented, and subsequently certified in early 2023, a Compliance Management System in line with the ISO 37301:2021 standard, with a view to ensuring effective monitoring of the compliance obligations identified.

ISO 37301:2021 is a new international standard published in April 2021 that sets out requirements and provides guidelines for developing, maintaining, and improving a compliance management system.

Achieving this objective means that Terna is the only company in Italy to have certified a Compliance Management System that encompasses all compliance obligations. The scope of certification includes Terna S.p.A., Terna Rete Italia S.r.l., Terna Energy Solutions S.r.l. and Terna Plus S.r.l.

The definition of the scope of application of this new Management System entailed the collection of **over 1,000 compliance obligations** (including prescriptive and voluntary obligations) that Terna Group professionals are committed to complying with in the performance of their activities. This new certification bears witness to the Group's ability to ensure that its operations comply with national and European regulations, and also provides an opportunity for the development of a compliance culture within the Company. From an integrated perspective, the Management System is the instrument of choice for further minimising the risk of mandatory and voluntary infringements of the law and the associated costs and reputational damage, while at the same time increasing stakeholders' confidence in Group entities. With reference to the Sustainable Development Goals (SDGs), the adoption of this standard is in line with Goals 8 (Decent work and economic growth), 11 (Sustainable cities and communities) and 16 (Peace, justice, and strong institutions), while in terms of listening to stakeholders, it incorporates the interests expressed by Terna people, Public decision-makers and authorities, Local Communities and the Community.

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### Terna Group certifications and accreditation

TYPE	SCOPE	YEAR		
		YEAR OF 1ST ISSUE	YEAR OF RELEASE	YEAR OF EXPIRY
ISO 9001:2015	Terna Group <sup>(*)</sup> <sup>(**)</sup>	2001	2022	2025
ISO 14001:2015	Terna Group <sup>(*)</sup> <sup>(**)</sup>	2007	2022	2025
ISO 45001:2018	Terna Group <sup>(*)</sup> <sup>(**)</sup>	2019	2022	2025
UNI CEI EN ISO 50001:2018	Terna Group <sup>(*)</sup> <sup>(**)</sup>	2015	2021	2024
ISO 37001:2016 <sup>(1)</sup>	Terna Group <sup>(1)</sup>	2017	2022	2026
ISO 37301:2021	Terna Group <sup>(1)</sup>	2023	2026	2026
ISO 55001:2015	Terna S.p.A., Terna Rete Italia S.p.A.	2018	2021	2024
ISO 27001:2013	Terna S.p.A. only for Market Monitoring Code applications	2011	2020	2023
ISO 9001:2015	Tamini Group	1993	2021	2023
ISO 14001:2015	Tamini Group	2015	2021	2023
ISO 45001:2018	Tamini Group	2015	2021	2023
ISO 37001:2016	Tamini Group	2022	2022	2025
ISO 9001:2015	Brugg Group (premises in Switzerland) Production plant and commercial office	1995	2022	2025
ISO 14001:2015	Brugg Group (premises in Switzerland) Production plant and commercial office	1998	2022	2025
ISO 45001:2018	Brugg Switzerland	2021	2022	2025
ISO 9001:2015	Brugg Group (premises in China) Suzhou plant and commercial office in Shanghai	2015	2020	2023
ISO 14001:2015	Brugg Group (premises in China) Suzhou plant and commercial office in Shanghai	2015	2020	2023
ISO 45001:2018	Brugg Group (premises in China) Suzhou plant and commercial office in Shanghai	2020	2020	2023
ISO/IEC 17025:2018	Terna Rete Italia S.p.A. for multi-site test laboratories in Viverone (BI), Civitavecchia (RM) and Frattamaggiore (NA)	2014	2021	2026
ISO/IEC 17025:2018	Terna Rete Italia S.p.A. for calibration laboratories in Florence, Turin and Cagliari	2017	2021	2025
Biosafety Trust Certification	Terna (Rome offices, Viale E. Galbani, 55, 68 and 70)	2021	2021	2024

<sup>(\*)</sup> Applies to the companies Terna S.p.A., Terna Plus, Terna Rete Italia and Terna Energy Solutions.

<sup>(\*\*)</sup> Also applies to Terna Crna Gora.

<sup>(1)</sup> The checks relating to the renewal of the certification (expiring in January 2023) were brought forward to 2022 to ensure the continuity of the certification.

Terna Rete Italia S.p.A. has also implemented a "Management System for the Prevention of Major Accidents" in accordance with the provisions of Legislative Decree 105/15 (the Seveso Directive).

DNF

## Supply chain sustainability

A sustainable supply chain makes a key contribution to the development of the Group's intellectual capital, especially after the pandemic which highlighted the need to take an innovative and resilient approach to all procurement activities, and, in terms of environmental sustainability, to take into account the growing importance of circularity in all operational processes (see page 271).

Proper management of the social, environmental, and economic impacts of the supply chain encourages the establishment of sustainable production and consumption models that also consider the human rights of the people involved. Therefore, supply chain sustainability is increasingly an integral part of the overall sustainability of the Group's business model.

In this regard, Terna requires suppliers to conduct themselves in a lawful and ethical manner, protecting human and labour rights, health and safety, information security and the environment.

- 2-23 > These behaviours have been formalised in the **Suppliers Code of Conduct**<sup>67</sup> in which each principle is linked to the requirements contained in the qualification process (see pages 200-202) and in Terna's tender and contract documentation.
- 2-24 > All suppliers are required to contractually commit themselves to comply with the provisions of Terna's Code of Ethics and 231 Model; any non-compliance encountered will result in penalties. Terna's tender procedures include several other requirements relating to social (human rights, working conditions) and environmental matters which, for some categories relevant for ESG purposes, must be met from the qualification phase on.

Terna has also implemented and regulated in its own Guidelines<sup>68</sup> the application of Legislative Decree 81/08, the *Consolidated Law on the protection of health and safety in the workplace*, as part of the activities carried out by Terna Group companies in their capacity as clients in the various phases of planning, design, awarding and execution of public and private procurement contracts. The Terna Group's compliance with this legal obligation enables **prevention and mitigation of any negative impacts on occupational health and safety** relating to the performance of activities contractually undertaken by contractors.

### Supply chain sustainability target - KPIs and targets in the 2022 ESG Plan



#### KPI

	2022		2023	2024	2025
	TARGET	RESULT			
"Works" Product Categories (PG) requiring obligatory certifications ISO:14001 and OHSAS:18001/45001.	100%	100%	100%	100%	100%

<sup>67</sup> The document is available for download at: <http://download.terna.it/terna/0000/0930/50.PDF>

<sup>68</sup> LG020, *Safety management relating to procurement*.

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## FOCUS

Tender for innovative SF<sub>6</sub>-free electrical control panels launched

The new connection standard being studied and proposed by Terna is providing a concrete response to meet the dual objective of stepping up the share of energy from wind and photovoltaic production plants (Renewable Energy Sources - RES) in the National Electricity System (NES), and at the same time coming up with effective technical measures to avoid the application of environmentally unsustainable solutions, such as, for example, new installations of the greenhouse gas SF<sub>6</sub>.

This involves a new voltage level of 36 kV (40.5 kV insulation) that Terna is introducing to connect renewable production plants more efficiently, up to a maximum capacity of 100 MW. As this voltage level has never been used in the National Transmission Grid (NTG), the Company department, *Infrastructure construction, substation technologies, equipment and civil works* has engineered and drawn up the necessary technical specifications to build new infrastructure at this voltage level.

The advantage with this new voltage level is that existing and mature alternative technologies to the use of SF<sub>6</sub> gas as an insulating and current-breaking means already exist and are mature, although they do take up more space. With a view to cutting our direct CO<sub>2</sub> emissions into the atmosphere (Scope 1), Terna has opted for air insulation and vacuum interruption as the indispensable technical specification for prefabricated devices with metal coatings (control panels) to be used for this level of voltage.

This choice geared towards the environmental sustainability of the NTG, will have a significant impact on the entire supply chain, which will be called on to develop ad hoc solutions that are currently not required by other European players, who continue to prefer solutions with a smaller footprint but that still use SF<sub>6</sub> gas. At international level, investment in research and in the experimentation of new SF<sub>6</sub>-free solutions are resulting in pilot projects, including the installation of automated breakers using clean air insulation that National Grid USA intends to use for the first time in 2023 in one of its substations in Massachusetts (New England, USA).

The adoption of this new connection standard has necessitated the definition of procurement procedures for machinery, equipment, and systems with new specifications.

Regarding the procurement of control panels, it should be noted that the call for tenders is currently in progress (2022/S 125-356758, published in the Official Journal of the European Union on 1 July 2022).

2-6 > In 2022, total expenditure on the procurement of services, supplies and works amounted to approximately **€1,657 million**<sup>69</sup>, spread across **2,354** suppliers contracted during the year. In this regard, it should be pointed out that, as well as ensuring quality and continuity of service in the general interest, the total annual expenditure on procurement helps to **generate downstream supply chain activity, thereby creating significant economic value and social benefits**.

### 204-1 > Procurement by category - %

	2022	2021(*)	2020
<i>By origin</i>			
Italy	98	79	97
Overseas	2	21	3
<i>Category</i>			
Goods	41	86	42
Works	34	9	38
Services	25	5	20

(\*) In 2021, the breakdown of purchases by category and origin differs from previous years due to the supply of marine cables for the Tyrrhenian project (€2.4bn).

The prevalence of national and local suppliers is determined by the specific nature of the business, especially by the need to carry out maintenance operations very swiftly to ensure the utmost safety of the system and greater competitiveness in terms of transport costs for heavy and bulky supplies. This also helps to cut the related environmental impacts.

Procurement, which regards activities carried out in relation to Terna's core business – so-called **key supplies** – and which mainly includes supplies of materials and electrical equipment, contracts for the provision of works and services in the electricity transmission, telecommunications and IT sectors, is governed by the new Procurement Code. This has introduced aspects relating to sustainability in tenders drawn up in accordance with the most economically advantageous tender criterion.

The following table shows the suppliers active during year, broken down by type of environmental and social requirements, according to their characteristics. The table illustrates the coverage guaranteed by the various initiatives, in terms of percentage of procurement, for significant groups of suppliers active in 2022.

### Suppliers active in 2022 and application of environmental and social requirements

	SUPPLIERS ACTIVE IN 2022			AMOUNT PROCURED FROM SUPPLIERS SUBJECT TO SPECIFIC REQUIREMENTS (% OF RESPECTIVE TOTAL AMOUNT PROCURED)				
	NUMBER	% OF TOTAL	AMOUNT PROCURED (€M)	% OF TOTAL	BASIC REQUIREMENTS (*)	ADDITIONAL SOCIAL AND ENVIRONMENTAL REQUIREMENTS (**)	SOCIAL (***) AND ENVIRONMENTAL QUALIFICATION REQUIREMENTS	COUNTRY RISK ASSESSMENT (****)
Total active suppliers	2,354	100.0	1,656.5	100.0	100	95.7	29.8	100
Critical suppliers	1,860	79.0	1,585.0	95.7	100	100	31.2	100
Suppliers in categories relevant for ESG purposes	113	4.8	869.9	52.5	100	99.9	56.7	100

408-1 > (\*) Compliance with the principles and behaviours provided for in Terna's Code of Ethics and 231 Model

409-1 > (\*\*) Integrity pact (text verified by Transparency Italy), anti-mafia certification, which checks: the application of collective labour agreements, payment of tax and social security contributions, the absence of environmental offences, the absence of serious breaches of labour safety regulations, regularity of employment of legally protected categories, certificate of medical fitness for specific roles issued by the relevant doctor (for works contracts), and the absence of any impediment to the award of public contracts.

(\*\*\*) OHSAS 18001 certified occupational safety management system or similar (required only from the suppliers of specific product categories at the time of qualification).

(\*\*\*\*) ISO 14001 certified environmental management system or similar (required only from the suppliers of specific product categories at the time of qualification).

(\*\*\*\*\*) Assessment of the risks of corruption and respect for human rights in connection with a supplier's premises.

<sup>69</sup> The figure refers to the amount ordered during the year. This means the sum of the amounts allocated for all contracts (works, supplies and services) signed during the year, net of options (amounting to approximately €486 million). An option is a provision added to supply contracts, clearly, precisely and unequivocally granting the contracting entity the right to increase the value of the contract in return for an increase in the contracted quantity or volume, subject to the same terms and conditions. Once introduced into the contract, such an option, though not constituting the assumption of an obligation on the part of the contracting entity, is included in the calculation of the overall amount.



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**Coverage is 100% or just under for the majority of the social and environmental requirements.** Regarding the most stringent social and environmental qualification requirements, the coverage is higher for suppliers included in categories that are relevant for ESG purposes. Such suppliers are periodically identified based on the product categories whose relevance to the business is assessed (the amount supplied, problems for the core business), as well as social aspects (health and safety and working conditions) and environmental aspects (significant environmental impacts in the production chain, relating to use by Terna, at the end of the asset's useful life).

Inclusion in this category leads to particular attention being paid during the qualification phase and in the development of technical specifications, as well as a commitment to adopt special precautions regarding categories not subject to qualification. Finally, additional health and safety measures have been introduced for works contracts (see the section, "Protecting workers' human rights at contractors' construction sites", on page 223).

**Newly contracted suppliers (%)**

	2022	2021	2020
% of new suppliers - checked for basic requirements <sup>(1)</sup>	100	100	100
% of new suppliers - checked for additional social and environmental requirements <sup>(2)</sup>	76.3	75.6	80

< 308-1  
< 414-1

<sup>(1)</sup> Compliance with the principles and behaviours provided for in Terna's Code of Ethics and 231 Organisational Model.

<sup>(2)</sup> Integrity pact (text verified by Transparency Italy), anti-mafia certification, which checks application of collective labour agreement, payment of tax and social security contributions, absence of environmental offences, absence of serious breaches of labour safety regulations, regularity of employment of legally protected categories, and absence of impediment for undertaking public contracts.

If disputes arise with suppliers, Terna seeks to settle them.

**Disputes with suppliers**

	2022	2021	2020
Pending	37	35	30
In progress	3	6	9
Settled	1	1	2

**Supply Chain sustainability target - KPIS and targets in the 2022 ESG Plan**



**KPI**

	2022	
	TARGET	RESULT
<i>ESG criteria in tenders</i>		
Use of ESG criteria in "Vegetation management" tenders > €1 million (% of tenders)	100%	100%
Use of ESG criteria in hardware procurement tenders* (% of tenders)	75%	90%

## Equal opportunities in accessing calls for tenders

Access to tender procedures is guaranteed for all eligible companies in accordance with the principle of equal opportunity and is governed by the **Procurement Regulations**. These Regulations, which have set guidelines for Terna's procurement activities, were drawn up based on the Procurement Code, which in turn implements the relevant EU legislation.

### Contracted suppliers

	UNIT	2022	2021	2020
Number of contracted suppliers	no.	2,354	2,265	2,204
<i>Contract award procedures adopted (% of amounts awarded)</i>				
EU calls for tender	%	77	91	74
Non-EU calls for tender	%	10	4	12
Previously qualified suppliers <sup>(1)</sup>	%	10	4	12
One-off contracts <sup>(2)</sup>	%	2	1	3

<sup>(1)</sup> Directly assigned professional appointments and/or consulting services.

<sup>(2)</sup> The "One-off contracts" category includes sponsorship and donations, fees paid to public entities, trade bodies and contracts awarded to previously qualified suppliers by Terna Plus S.r.l.

## Qualification of suppliers and due diligence activities

The most relevant product groups for the core business are subject to a qualification procedure, pursuant to the current Public Procurement Code. Only business operators who have met the regulatory compliance requirements, are in possession of the necessary high-quality technical and organisational expertise, are financially sound, and enjoy a solid reputation are included in Terna's approved list of suppliers. The entire process is managed via the **Supplier Qualification Portal**, thus ensuring an efficient, traceable, and transparent process.

In the sectors at greatest risk in terms of sustainability (primarily works and certain services), an adequate level of environmental management and the ability to protect workers' health and safety are also required, both represented by corporate procedures focused on key elements of the international UNI EN ISO14001 and BS OHSAS 18001 (UNI EN 45001) standards. Sectors gradually adopt these certifications within set timeframes, so that operators may grow sustainably and reach technical and organisational maturity.

In the period 2020-2021, the obligation to obtain certification was introduced for works product groups (HV power lines, laying of HV cables, civil works, vegetation management, and pylon painting); global service groups (technical plant maintenance, maintenance of green areas, and cleaning); and the group that supplies digital automation and control systems for HV substations. In 2022, this obligation was extended to four other supply areas: prefabricated metal kiosks, battery auxiliary systems, HV disconnectors, and HV metering transformers.

**Among qualified suppliers, 79% already possess and 5% are obtaining UNI EN 45001 certification. With regard to UNI EN ISO 14001, 89% of qualified suppliers possess it and 2% are obtaining it.**

During the three-year qualification period, Terna ensures that suppliers meet the qualification requirements, including the various ESG aspects, via document audits and on-site checks. Approximately 85 per cent of the on-site checks regarded suppliers belonging to categories that are relevant for ESG purposes. In connection with the various ESG aspects, **1,287 Terna sites were monitored in 2022**, with assessment carried out using vendor rating forms.

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As far as overseas suppliers are concerned, **Terna assesses the country risk**, namely the possibility of incurring damage if incidents or events occur that may be linked to the economic, social, and political environment of the country in which the supplier normally operates. This risk is, for the time being, very limited, given the prevalence of domestic and EU suppliers. However, it could become more significant in view of the possible expansion of procurement markets overseas. Objective elements are used in the analysis and assessment of the most relevant risk factors, which relate to economic and political governance issues in the various countries, and with respect to internationally agreed human rights protocols, including the ratification of UN and ILO conventions, together with the assessments made by the main international non-governmental organisations and the leading rating agencies actively concerned with these issues.

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As these assessments are regularly updated, they enable the Company to constantly monitor developments in the related environment. In addition to these assessments, restrictive measures are also issued by Italian and European authorities, entailing limitations on the free movement of goods (trade embargoes) or rules of conduct in the case of transactions with countries that have preferential tax treatment (tax havens).

**Active qualifications**

	2022
Number of active qualifications	613
- of which new qualifications during the year	88
Number of qualifications requiring an Environmental and Safety management system	304

**Qualified categories**

	2022
Number of qualified categories	53
- of which newly qualified during the year	3
Number of qualifications requiring an Environmental and Safety management system	23

The monitoring of qualified companies includes a series of joint initiatives with other corporate departments, aimed at sharing and verifying the performance and, more broadly, the reliability of qualified business operators. The most critical cases are brought to the attention of the **Supplier Qualification Committee** to assess the possible adoption of measures with a view to issuing sanctions and precautionary measures. The Supplier Qualification Committee, comprising most of the first line managers, provides a real opportunity for collegial assessment and decision-making on critical issues relating to qualified business operators.

Reports may come either from the departments that systematically monitor the reliability of third parties (Counterparty Due Diligence), or from the departments that manage contracts or Procurement and Contracts. For a group of more critical product categories, a reporting system using systematic performance assessment feedback forms (vendor rating forms) is implemented. Monitoring also takes place during pre-arranged visits, regarding both new qualifications and renewals during the eligibility period, which are also organised as a result of critical events (normally regarding safety, or serious performance shortcomings). Qualification visits are generally aimed at checking compliance with the technical requirements of qualification procedures, as well as compliance with environmental and safety standards and good practices.

In 2022, the Supplier Qualification Committee suspended seven business operators (21 actions taken) related to the following cases: sanctions relating to safety incidents (serious accidents), serious performance shortcomings, non-payment of subcontractors and reputational reliability. If suspension is due to serious events, readmission to the approved list of suppliers is subject to verification that the critical issue has been resolved, or the adoption of remedial measures.

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A warning letter is also issued in response to a serious performance shortcoming, which is followed by an on-site monitoring visit to the business operator's premises.

In response to reported critical events, the Supplier Qualification Committee also approved four inspections to be carried out by different first- and second-level departments of the Terna Group (usually Health & Safety and RIT Site Monitoring), and seven improvement plans.

If conduct no longer meets the requirements for qualification, the supplier may receive a warning or be temporarily suspended from the list; in the most serious cases, offenders are removed from the list.

#### Audits and monitoring

	2022
Qualification document checks	1,287
On-site qualification checks	13
including categories relevant for ESG purposes	13

#### Measures taken

	2022	2021	2020
Number of suppliers revoked off the list	0	0	1
Number of suppliers suspended	7	4	5
Number of suppliers warned	1	4	6

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# Human capital

The quality of human capital is pivotal to a company's growth and thus to creating value over time. With their motivation, educational backgrounds, managerial abilities, sense of engagement and enhanced and consolidated skills, people are a crucial element in all the Company's activities and, at the same time, human beings who are to be appreciated and whose rights are to be respected.

The Group, in its daily operations, is committed to adopting adequate standards to protect human rights, in line with the **Respecting Human Rights in the Terna Group** policy (see page 184) and implementing the contents of the Declaration on Fundamental Principles and Rights at Work issued in 1998 by the International Labour Organisation (ILO). The Company regularly assesses the impact of the Group's activities on human rights, above all regarding *Health and safety, Work conditions and compensation, Discrimination, Professional training and Freedom of association and collective bargaining*, all described in this chapter.

In line with those values enshrined in the Code of Ethics, Terna's commitment to its employees centres on **attention to safety and accident prevention** (see page 218), **research and development**, whereby specific competencies needed to successfully reach the objectives set forth in the Industrial Plan are updated (see page 209), and **training**. These focused activities are coupled with management and development systems designed to **improve performance and enhance growth opportunities** (see page 210).

Dialogue between Terna and its employees takes place via a consolidated system of **industrial relations based on the engagement of trade unions** (see page 216) as well as regular **opportunities for employees to communicate directly** by means of both online opinion surveys, focus groups and internal engagement promoted as part of the NexTerna programme (see page 203).

The attention paid by the Company to its people is concretely reflected in Terna's **welfare policy**, aimed at providing staff with a better work-life balance and, more generally, greater personal wellbeing (see page 224).

Since 2021, many of these topics were encompassed in **NexTerna**, an innovative, internal cultural change programme designed to give employees greater responsibility for achieving business objectives and aimed at providing a better work-life balance, implementing a new leadership model. A Steering Committee, chaired by the Chief Executive Officer and consisting of senior executives, is responsible for NexTerna, whilst coordination of the related activities is assigned to the *People Organization & Change* and *Innovation & Market Solutions* departments. The programme is divided into seven "topic areas": (1) Inclusive Leadership, (2) People care and skills, (3) Agile solutions applied to processes, (4) Sustainability and communication, (5) Technology and digitalisation, (6) Virtual and physical spaces, (7) A new approach to industrial relations. All the information regarding the progress made in each individual topic area and the reporting of specific initiatives (e.g., webinars with external speakers) to employees are published on the NexTerna portal, which can be accessed from the Company's intranet homepage.

During 2022, all the topic areas reached the targets set in 2021. On 30 November, during the *NexTerna Day*, the progress made in implementing the programme was presented to capitalise on the results in the various areas, thereby embedding them in organisational processes and at the various levels of the organisation.

# FOCUS

## NexTerna: main results

### 1. Inclusive leadership

This first area developed the new **Leading NexT** leadership model to inspire and guide the adoption of exemplary behaviour daily, in line with the *New Ways of Working* developed in response to the pandemic and interpreted by Terna as an opportunity to encourage new work experiences based on greater independency, responsibility and sustainability. The new leadership model has been rolled out to all Terna's employees through a cascading process, which has included the creation of so called rituals among the various missions. These rituals are specific, organised aspects of work in which the new behaviours provided by the model can be put into practice. Adoption of the behaviours has been facilitated by the introduction of **Power Supporters**, employees who have acted as ambassadors of the change to drive engagement and support for the adoption of change.

### 2. People Care and skills

This area was focused on people's care, promoting continuous learning, and developing a new mentality. The starting point was the definition of a new process for assessing engagement through the implementation of the **eNPS (Employee Net Promoter System)**, the main communication tool that allows all employees to actively contribute to the training process. In 2022, two surveys were carried out, with an average participation of 81%. During the year the **Terna Academy** was launched, a new research and training hub described on page 212. The **WellbeingInAction** programme was also launched, with the aim of spreading and promoting a culture focused on people's wellbeing and a greater work-life balance. The **Welfare** offer that the Company provides to its employees has been updated (see page 225), whilst **skill mapping** has been introduced to boost Terna's overall know-how.

### 3. Agile solutions applied to processes

Innovating and simplifying the carrying out of specific activities, implementing developed collaboration tools to enable new and constructive group dynamics: this is the area's mission, which launched 16 solutions co-planned by flexible teams (12 of which have already passed the prototype phase) **that 2,000 employees already use**. These solutions allow the Company to promptly communicate the impact of operational events on infrastructure, optimise the use of remote planning software, improve the remote surveillance of supplies, enhance the exchange of information with suppliers, increase the efficiency of new hire onboarding, support construction sites and work places through augmented reality, consult and improve the use of business documentation and manage operational risk and the reporting of onsite critical issues.

### 4. Sustainability and Communication

This area is dedicated to spreading a sustainability culture throughout the Company and promoting communication to integrate and exchange best practices. The preparation of the **Terna Group Sustainability Policy** and the introduction of **Innovative Mobility Solutions** with low environmental impact, such as Sharing services (cars, bicycles, and scooters), are two of the most important achievements of this topic area. Lastly, communication initiatives aimed at promoting sustainability, such as the **EcoTips good sustainability practices**, were launched (see page 253).

### 5. Technology and Digitalisation

This fifth area had the objective of defining the best technological support to enable the new ways of working, at the same time facilitating collaboration, interaction, and experimentation. Also included is the initiative that led to the introduction of the digital signature **GoSign**, regularly used by over 650 employees for a total of approximately 450 procedures managed monthly, with a positive impact also on sustainability. The intense use of smart working has resulted in new work life needs, to which the **Office@home** initiative relates. This initiative had the objective of supplying specific equipment (PC monitors, keyboards and mice, w-fi extenders, USB earphones, etc.) as part of a trial remote working scheme for selected people. The area also launched a project to analyse the best technological solutions to support the activities carried out on infrastructure by technical personnel (office staff and blue-collar workers).

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## 6. Virtual and Physical Spaces

The Company adopted a new concept of workspaces by choosing a hybrid model based on flexibility, sharing, collaboration and access to multi-services. One of the main results achieved was migration to shared workstations (**Desk Sharing**), which involved **over 1,200 people** belonging to different departments. Terna inaugurated two new co-working offices in Rome, earmarked for use exclusively by Terna personnel. Moreover, an agreement was concluded with the Company, Regus, for the utilisation of co-working spaces located throughout Italy. The Company also developed an app, **T-Place**, for the booking of various services such as workstations, co-working spaces, staff catering and bike racks. As part of the new space concept, Terna also launched a redesign project for the head offices in Rome.

## 7. A New Approach to Industrial Relations

This area has revised the methods used to involve and interact with social partners, which took shape in the preparation of the **New Industrial Relations Protocol for Terna Group companies**, governed by the national collective labour agreement for workers in the electricity sector. This agreement, signed on 10 March 2022, aims to develop a new approach to dialogue to effectively address the impact of the energy transition and digitalisation and innovation processes. The new protocol has also introduced virtual trade union noticeboards, a digital space where reports and other work-related information can be published.

## Workforce trends

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At the end of 2022, Terna's workforce<sup>70</sup> was made up of a total **4,524 people** (5,324 for the Group<sup>71</sup>), an increase of 300. In particular, **460 people joined Terna** (538 for the Group), **including 216 under the age of 30** (242 for the Group). The generational turnover underway has also produced a steady increase in the level of education among the Group's workforce. In 2022, 97.5% of Terna's employees had a university degree or high-school diploma. The average length of service is 13.4 years.

The **turnover rate for incoming staff** is **10.9%** (11.1% for the whole Group) and continues to reflect the generational turnover policy and the growth outlook in the Industrial Plan.

The **turnover rate for outgoing staff** is **3.8%** (4.3% for the whole Group). This figure is primarily linked to a high degree of generational turnover during the year (70 retirements in Terna), and the number of voluntary resignations (76 in Terna, representing a rate 1.8%; in 2021 1.3%).

At 31 December 2022, there were 29 active agency contracts within Terna (37 in 2021 and 6 in 2020) and 52 in terms of the Group. Interns, on the other hand, numbered 9 (14 in 2021 and 15 in 2020) at Terna and the Group as a whole.

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<sup>70</sup> The term Terna means the companies falling with the scope of the electricity sector, being Terna, Terna Rete Italia, Terna Plus and Terna Energy Solutions.

<sup>71</sup> Group means the traditional electricity companies included in Terna (being Terna, Terna Rete Italia, Terna Plus and Terna Energy Solutions), the Tamini Group (excluding employees in the United States and India) and the Brugg Group. The figures in this section, when referring to the Group, cover 97% of employees (that is, all employees except for people employed by Terna Crna Gora, the South American companies, Avenia and the LT Group), unless otherwise indicated. When instead they refer to Terna, they regard 82% of employees. In terms of revenue, on the other hand, these percentages are 98% in the case of the Group and 89% when referred to Terna.

## 401-1 &gt; Workforce trends

	GROUP (*)			TERNA		
	2022	2021	2020 (**)	2022	2021	2020
<b>Total employees</b>	<b>5,324</b>	<b>4,861</b>	<b>4,551</b>	<b>4,524</b>	<b>4,224</b>	<b>3,935</b>
<b>Employees recruited during the year</b>	<b>546</b>	<b>492</b>	<b>225</b>	<b>460</b>	<b>416</b>	<b>175</b>
- men	402	368	188	329	305	146
- women	144	124	37	131	111	29
- below the age of 30	244	223	153	216	204	140
- between the ages of 30 and 50	271	235	52	225	193	27
- over the age of 50	31	34	20	19	19	8
<i>Rate of recruitment in % <sup>(1)</sup></i>						
<b>Total</b>	<b>10.9</b>	<b>10.8</b>	<b>5.0</b>	<b>10.9</b>	<b>10.6</b>	<b>4.5</b>
- men	8.0	8.1	4.2	7.8	7.8	3.8
- women	2.9	2.7	0.8	3.1	2.8	0.7
- below the age of 30	4.9	4.9	3.4	5.1	5.2	3.6
- between the ages of 30 and 50	5.4	5.2	1.2	5.3	4.9	0.7
- over the age of 50	0.6	0.7	0.4	0.5	0.5	0.2
<b>Employees leaving during the year</b>	<b>219</b>	<b>182</b>	<b>134</b>	<b>160</b>	<b>127</b>	<b>112</b>
- men	192	157	123	139	113	104
- women	27	25	11	21	14	8
- below the age of 30	44	43	28	31	29	22
- between the ages of 30 and 50	77	46	22	49	25	13
- over the age of 50	98	93	84	80	73	77
<i>Turnover rate in % <sup>(2)</sup></i>						
<b>Total</b>	<b>4.4</b>	<b>4.0</b>	<b>3.0</b>	<b>3.8</b>	<b>3.2</b>	<b>2.9</b>
- men	3.8	3.4	2.8	3.3	2.9	2.7
- women	0.5	0.5	0.2	0.5	0.4	0.2
- below the age of 30	0.9	0.9	0.6	0.7	0.7	0.6
- between the ages of 30 and 50	1.5	1.0	0.5	1.2	0.6	0.3
- over the age of 50	2.0	2.0	1.9	1.9	1.9	2.0

(\*) The 2022 figures shown in the column Group in this table refer to Terna (electricity sector), the Tamini Group and the Brugg Group. For 2021 and 2020, the figures refer to Terna, Tamini Group and Brugg Switzerland. Regarding the figures for Brugg's subsidiaries, given their limited significance compared with the Group amounts, they were not estimated.

(\*\*) The number of Brugg Switzerland employees leaving during the year by age was estimated based on the 2021 figures.

<sup>(1)</sup> The rate of recruitment shows the ratio of employees joining to the number of employees at 31 December of the previous year.

<sup>(2)</sup> The turnover rate shows the ratio of employees leaving to the number of employees at 31 December of the previous year.

## Internal company climate

	UNITÀ	TERNA		
		2022	2021	2020
Total voluntary resignations	no.	76	52	37
Turnover rate for voluntary resignations <sup>(1)</sup>	%	1.8	1.3	0.96
Absences per capita <sup>(2)</sup>	no.	69	31	43
Absenteeism rate <sup>(3)</sup>		8,626.1	3,718.6	5,246.5
Vacant positions covered by internal applicants <sup>(4)</sup>	no.	95	85	81

<sup>(1)</sup> Ratio of the number of total voluntary resignations to the workforce at 31 December 2021.

<sup>(2)</sup> Meaning non-contractual absences (illness, injury, leave, strikes, unpaid absence) recorded during the year.

<sup>(3)</sup> The number of days of absence due to illness, strikes, injuries and leave out of the number of days worked in the same period, multiplied by 200,000. To aid comparison with other sources, this indicator has been calculated as a percentage of the days worked. Based on this method of calculation, the absenteeism rate is as follows: 4.3 in 2022, 1.9 in 2021 and 2.6 in 2020. The reasons for absence considered do not include maternity, wedding leave, study leave, trade union leave, other cases of paid leave and suspensions.

<sup>(4)</sup> The percentage represents the vacant managerial roles covered by internal applicants during the reporting period.

For more information on employee turnover ("Comparative data") scan this QR code.





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## Managing generational turnover

Terna allocates a host of initiatives to generational turnover which, since 2015, have been bolstered considerably due to the combination of a voluntary early retirement scheme for staff approaching retirement age and stepped-up recruitment.

In the period between **2016 and 2022, incoming staff totalled 2,187, including 1,345 under the age of 30, compared with 836 outgoing staff.**

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Below is an overview of personnel who could potentially qualify for retirement in the next 5 to 10 years (estimated on the basis of available data regarding ages and pension contributions):

**A.** at 31 December 2022, **5.3%** of the workforce in the next 5 years, of which:

Senior managers	<b>0.0%</b>
Middle managers	<b>1.8%</b>
Office staff	<b>2.5%</b>
Blue-collar workers	<b>1.1%</b>

**B.** at 31 December 2021, **17.4%** of the workforce in the next 10 years, of which:

Senior managers	<b>0.3%</b>
Middle managers	<b>4.8%</b>
Office staff	<b>9.0%</b>
Blue-collar workers	<b>3.4%</b>

### Impact of generational turnover in the period 2014-2022 (\*)

	UNIT	TERNA	
		2022	2014
Average age	yr	40.6	46.6
Average length of service	yr	13.4	21.2
Percentage by composition of age: >50	%	26.2	45.3

(\*) The period considered starts from 2014. The first generational turnover plan, involving the recruitment of 300 young people, took place in 2015 (see the 2015 Sustainability Report, page 126).

### Average years of employment of employees leaving (\*\*)

	UNIT	GROUP (**)			TERNA		
		2022	2021	2020	2022	2021	2020
<b>Total leaving</b>	<b>yr</b>	<b>18.7</b>	<b>20.5</b>	<b>21.5</b>	<b>20.6</b>	<b>21.9</b>	<b>24.0</b>
Men	yr	20.5	22.4	22.6	22.8	24.2	25.3
Women	yr	9.3	9.6	14.2	9.6	9.7	16.0
below the age of 30	yr	2.3	2.3	1.9	2.5	2.5	2.0
between the ages of 30 and 50	yr	5.3	6.0	5.8	5.6	5.9	6.0
over the age of 50	yr	34.0	32.5	31.0	37.8	36.5	34.3

(\*) With regard to the employees joining Terna following acquisition of business units, the duration of employment considers previous employments.

(\*\*) The 2022 figures shown in the column Group in this table refer to Terna (electricity sector), the Tamini Group and the Brugg Group. For 2021 and 2020, the figures refer to Terna, the Tamini Group and Brugg Switzerland. Regarding the figures for Brugg's subsidiaries, given their limited significance compared with the Group amounts, they were not estimated.

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## Employee overview

At the end of 2022, the Group's<sup>72</sup> consolidated total number of employees was 5,497 (up 361 compared with 2021<sup>73</sup>). In addition to Terna's employees (4,524), this figure includes 455 Brugg Group personnel (of which 302 employed by Brugg Switzerland and 153 people working for the subsidiaries in China, India, United Arab Emirates, Germany and Italy), 349 Tamini Group staff (of which 345 in Italy, 2 in the United States and 2 in India), 29 people employed under local contracts by overseas subsidiaries (14 in Brazil, 11 in Montenegro and 4 in Peru), 17 people employed by Avenia and 123 people employed by the LT Group, of which a 75% stake was acquired in October 2021.

### The Group's workforce

	2022	2021	2020	2022 VS 2021	% 2022 VS 2021
Senior managers	94	92	80	2	2.17
Middle managers	841	765	672	76	9.93
Office staff	3,090	2,815	2,587	275	9.77
Blue-collar workers	1,472	1,464	1,396	8	0.55
<b>Total</b>	<b>5,497</b>	<b>5,136</b>	<b>4,735</b>	<b>361</b>	<b>7.03</b>

The table below shows the composition of the workforce referred to the reporting scope described in the section, "Scope of reporting and indicators" on page 289.

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### Composition of the workforce

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	GROUP (*)			TERNA		
	2022	2021	2020	2022	2021	2020
<b>Total</b>	<b>5,324</b>	<b>4,861</b>	<b>4,551</b>	<b>4,524</b>	<b>4,224</b>	<b>3,935</b>
- of whom men	4,468	4,129	3,919	3,757	3,567	3,376
- of whom women	856	732	632	767	657	559
<i>By category</i>						
Senior managers	91	86	75	78	74	63
Middle managers	827	745	658	781	706	620
Office staff	2,980	2,663	2,475	2,645	2,400	2,221
Blue-collar workers	1,426	1,367	1,343	1,020	1,044	1,031
<i>By type of contract</i>						
- permanent <sup>(1)</sup>	5,305	4,844	4,524	4,520	4,223	3,934
- of whom men	4,456	4,117	3,903	3,755	3,566	3,376
- of whom women	849	727	621	765	657	558
- fixed-term	19	17	27	4	1	1
- of whom men	12	12	16	2	1	0
- of whom women	7	5	11	2	0	1
<i>By type of employment</i>						
- full-time	5,271	4,812	4,504	4,512	4,210	3,920
- of whom men	4,453	4,116	3,905	3,754	3,563	3,371
- of whom women	818	696	599	758	647	549
- part-time	53	49	47	12	14	15
- of whom men	15	13	14	3	4	5
- of whom women	38	36	33	9	10	10
<i>By age</i> <sup>(2)</sup>						
- below the age of 30	1,229	1,168	1,158	1,156	1,116	1,106
- between the ages of 30 and 50	2,618	2,255	1,980	2,182	1,925	1,660
- over the age of 50	1,477	1,438	1,413	1,186	1,183	1,169
<i>Average age (years)</i>						
Average age	41.2	41.4	41.6	40.6	40.7	40.9

(\*) The 2022 figures shown in the column Group in this table refer to Terna (electricity sector), the Tamini Group and the Brugg Group. For 2021 and 2020, the figures refer to Terna, the Tamini Group and Brugg Switzerland. Regarding the figures for Brugg's subsidiaries, given their limited significance compared with the Group amounts, they were not estimated.

<sup>(1)</sup> Permanent contracts also include apprenticeships.

<sup>(2)</sup> The percentage of the Group's employees, divided by gender, is as follows: for 2022, 83.9% men and 16.1% women. The percentage of the Group's employees, divided by age, is as follows: for 2022, 23.1% below the age of 30, 49.2% between the ages of 30 and 50 and, lastly, 27.7% over the age of 50. Regarding Terna (electricity sector), the breakdown by gender in 2022 is the following: 83.0% men and 17.0% women. The breakdown by age is instead the following: 25.6% below the age of 30, 48.2% between the ages of 30 and 50 and 26.2% over the age of 50.

<sup>72</sup> It should be noted that Group's consolidated total number of employees refers to the total number of employees of the Group as a whole.

<sup>73</sup> The increase in the total workforce is primarily attributable to Terna (up 300).

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## Recruitment, selection and development

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In 2022, the Group's acquisition of talent was centred on the search for university graduates and individuals with diplomas from vocational institutes, with particular focus on STEM<sup>74</sup> subjects. The lack of applicants with such competencies, above all engineers and technicians, complicated attempts to attract and recruit the right people in a highly competitive labour market.

To ensure the recruitment of new personnel in accordance with the Industrial Plan, **Employer Branding** actions have been stepped up by collaborating and engaging with major universities and other educational bodies, to increase awareness of the job opportunities offered by the Company and bring forward contact with target applicants. These initiatives have been promoted through various channels, digital and traditional (such as University Placement offices), in addition to the terna.it website, on which the section *Work with us* has been revised and improved by further highlighting vacant positions.

The commitment to universities and business schools continued through agreements and partnerships as part of the pre- and post-graduate training programmes and the provision of internships, work experience and thesis programmes.

As part of collaboration between the academic and business worlds, the **Tyrrhenian Lab** was inaugurated during 2022. The first of the three editions planned of the Level II Master in **Digitalisation of the Electricity System for the energy transition** was launched, aimed at 45 students, and promoted in collaboration with the universities of Palermo, Salerno, and Cagliari. (Further information is provided on pages 214, 242 and the specific box on page 245).

Lastly, regarding schools, 2022 saw the sixth consecutive edition of the **Work-School project**, involving 10 technical institutes.

### Percentage composition of the workforce by degree (\*)

	GROUP (**)			TERNA		
	2022	2021	2020	2022	2021	2020
University degree	39	36	33	43.2	39.8	36.4
High-school diploma	47	47	48	46.7	48.4	50.5
Professional qualification	9	10	10	7.7	8.6	9.3
Elementary/High-school	5	7	8	3.0	3.8	3.8

(\*) Degrees of overseas Companies have been equated to Italian degrees.

(\*\*) The 2022 figures shown in the column Group in this table refer to Terna (electricity sector), the Tamini Group and the Brugg Group. For 2021 and 2020, the figures refer to Terna, the Tamini Group and Brugg Switzerland. Regarding the figures for Brugg's subsidiaries, given their limited significance compared with the Group amounts, they were not estimated.

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### Initiatives for new hires

The sharp increase in the Company's new hires is accompanied by a series of onboarding initiatives, divided into 4 synergetic phases, designed to encourage their engagement. The phases are:

- **Day One:** induction day, coinciding with the first day at Terna, providing an initial taste of what it is like to work at the Company;
- **Welcome Day:** a day dedicated to showing various core business topics and encourage acquaintance among the community of new hires;
- **CEO meets under30s:** a series of meetings in which the CEO talks about the Industrial Plan with young people;
- **NextGenerationTerna:** an 8-month induction project, specifically devoted to university graduates under the age of 30, aiming to promote awareness, in an engaging and dynamic manner, of Terna's most recent trends and, on a prospective basis, the challenges presented by the changing future.

<sup>74</sup> Acronym for Science, Technology, Engineering and Mathematics; the term is used to indicate scientific and technological fields and the related courses of study.

404-2 > The **development of competencies and talent**, above all for Terna's core processes, plays a key role consistent with the People Strategy and the cultural transformation launched by NexTerna.

In line with previous years, the technical **skill mapping process** has been updated. This allowed for a complete mapping of the technical and professional know-how of Terna's entire organisation, with a particular emphasis on distinctive and core skills needed to implement the Industrial Plan. As usual, the outcomes of the process will be used to guide the training programme and the management of knowledge sharing involving technical skills.

During the year, a new Talent Management process was established, aiming to identify people with abilities and characteristics in line with the talent definition inspired by the leadership model. The process also aims to guarantee talents an opportunity to grow, fuelling the succession pipeline. Two pilot projects aimed at newly hired young graduates and senior specialists were launched. In 2023, the project will be extended to involve more people.

2022 saw continued utilisation of the performance assessment system, **People for Performance (P4P)**, a programme divided into five phases (Goal Setting, Mid-Year, Assessment, Calibration, Feedback). The programme is designed to reinforce the link between the organisation's strategic objectives and those of individuals and teams, dialogue between heads and collaborators, promoting an assessment and feedback culture and the spread of behaviour in line with the *Leading NexT* Leadership model.

404-3 > **Periodic performance evaluation (\*)**

	TERNA		
	2022	2021	2020
<b>Percentage of employees subject to performance appraisals <sup>(1)</sup></b>	<b>99.1</b>	<b>94.4</b>	<b>95.6</b>
- of whom women <sup>(2)</sup>	87.3	89.2	92.7
- of whom men <sup>(2)</sup>	94.6	95.4	96.1
<i>By category<sup>(2)</sup></i>			
Senior managers	102.6	106.8	112.7
Middle managers	97.1	97.2	98.4
Office workers	89.4	91.7	94.6
Blue-collar workers	100.2	97.8	95.0

(\*) The table shows figures related to Terna (electricity sector, being Terna, Terna Rete Italia, Terna Plus and Terna Energy Solutions).  
<sup>(1)</sup> The figures refer to the ratio of employees whose performance is assessed to the total number at 31 December 2022, including people who left the Company during the year who were assessed and excluding seconded personnel, people hired after 1 April 2022 and long-term absentees.  
<sup>(2)</sup> The figures refer to the number of employees assessed during the reporting period compared with the total number of employees at 31 December 2022. The percentage can therefore exceed 100%, given that the evaluation also considers employees that left during the year. The figures shown in the table have been calculated considering the People for Performance – P4P, Terna's employee performance assessment system, and short-term incentive schemes (MBO and Project Bonuses).

**“Application of performance evaluation”**

**KPI and targets in the 2022 ESG plan**



KPI	TARGET				
	2022		2023	2024	2025
	TARGET	RESULT			
Employees taking part in performance appraisals (%)	95%	99.1%	95%	95%	=

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## Training

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Developing and updating people's skills ("employability") is also done through training which, at Terna, is considered a human right to guarantee throughout every employee's working life. The aim is to ensure the constant availability of adequate human capital, in line with the Group's mission and strategic objectives.

In 2022, in response to the new challenges brought by the energy scenario, **Terna Academy** established *New Ways of Learning* by innovating, upgrading and updating competencies for Terna's employees and all external stakeholders (suppliers, partners and schools).

In line with previous years, training was provided to new hires to facilitate their insertion, boost their professional, technical and operational skills, transmit highly specialised knowhow and ensure compliance with guidelines pertaining to health and safety, privacy and the 231 Organisational Model.



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## 404-2 > Launch of the *Terna Academy*

During 2022, the Company inaugurated the Terna Academy. The training offer, designed annually and reviewed every quarter in line with new training demands and the Task Forces' indications, is divided into three areas, in accordance with the Industrial Plan's priorities: New Ways of Working (NWoW), Sustainability (ESG) and Energy Transition (ET).

For each area, a Task Force has been set up to establish the annual schedule. Terna Academy's teaching model is based on the **Five energies for learning**:

- 1. Experiment:** allow the Terna Group's employees to learn, experimenting and creating new knowledge;
- 2. Envision:** envisioning the future of the sector and the Terna Group together, integrating trends and strategic priorities;
- 3. Empower:** empower people to become more effective in their professional and personal lives;
- 4. Enrich:** acquire new skills to enrich daily work practices
- 5. Enable:** joining Terna to be ready to work in accordance with the Company's ethos.

To ensure scientific precision in the approach to training, the accuracy of content and interdisciplinary cooperation, the Terna Academy has implemented a **Governance Model**, set up by a **high profile Scientific Committee** that includes, in addition to the Chairwoman Valentina Bosetti and the Chief Executive Officer Stefano Antonio Donnarumma, three figures from the academical world: Professor Francesco Profumo from the Polytechnic University of Turin, Professor Maurizio Delfanti, Chief Executive Officer of ESR (Energy System Research) and Professor Gustavo Piga from Tor Vergata University in Rome. Additional Committee members are Emilia Rio, Head of People Organization and Change, Massimiliano Garri, Head of Innovation & Market Solutions, and Massimiliano Paolucci, Head of External Relations, Institutional Affairs and Sustainability.

The Terna Academy is based on the following principles:

- promoting activities and training programmes focused on people's cognitive and emotional improvement, enabling them to efficiently use technology and develop flexibility, creativity, resourcefulness, collaboration and resilience;
- spreading a new continuous learning culture that aims to develop people's ability to "learn to learn" and, individually, to choose their own growth path;
- the planning of innovative formats that take into account the most advanced neuroscientific research on learning and acquire new habits, languages, contemporary communication principles and experience the value of new immersive technologies;
- the involvement of internal (faculty) and academical professionals and external experts, ensuring scientific precision of the approach, accuracy of content and interdisciplinary cooperation, overcoming every form of self-referential risk;
- the merger of the technological potential of e-learning with the advantages of the interactivity provided by experiential learning in classes, to enhance the overall learning experience.

In addition, the Terna Academy has its main office in the Rome North Electricity Substation (via della Marcigliana) and, for blue-collar workers on-site training, has the Training Centre in Viverone (BL). The training body (*Faculty*) includes over 200 employees, which provide their own knowledge and skills to all employees. The whole training process is operated by the POC-TAC-Learning department, will last a year, and is based on an iterative approach to promote the use of available resources and a quality training service.

In the two-year period 2022-2023, additional training and innovation spaces will be launched around the country, in order to develop Terna's professional community and guarantee new learning and networking opportunities.

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In 2022:



**174,708** hours of training were provided in Terna (184,016 for the Terna Group), of which 49% led by in-house trainers;



**100%** of employees attended at least one training course (99% for the Terna Group);



**40** hours of training were provided per capita, up 35 hours from 2021 and 34 hours from 2020, largely due to the limitations imposed by the pandemic;



In 2022, the average per capita cost of training at Terna was **€394** (€285 in 2021) and the average per capita cost of training within the Group was €348.

### Average hours of training

< 404-1

	GROUP (*)			TERNA		
	2022	2021	2020 (**)	2022	2021	2020
<i>Average hours of training</i>						
- per employee <sup>(1)</sup>	36	31	30	40	35	34
<i>By category <sup>(2)</sup></i>						
- senior managers	32	12	17	36	13	19
- middle managers	35	25	25	37	26	25
- office staff	33	28	29	36	30	31
- blue-collar workers	42	43	36	52	54	47
<i>By gender <sup>(3)</sup></i>						
- men	37	33	31	42	37	34
- women	27	18	22	30	19	24
Hours of training in human rights	496	1,584	996	466	1,584	996
Participants in the course on human rights (%) <sup>(4)</sup>	20.1	34.5	5.5	24.0	39.8	6.4
Percentage of employees <sup>(5)</sup>	99	99	96	100	100	98
<i>Hours provided</i>						
<b>Total</b>	<b>184,016</b>	<b>148,698</b>	<b>135,417</b>	<b>174,708</b>	<b>145,528</b>	<b>132,487</b>
- hours of in-house training	86,912	83,144	79,284	84,833	89,900	79,060
231 Organisational Model course participants <sup>(6)</sup>	1,916	309	457	1,637	309	353

(\*) The 2022 figures shown in the column Group in this table refer to Terna (electricity sector), the Tamini Group and the Brugg Group. For 2021 and 2020, the figures refer to Terna, the Tamini Group and Brugg Switzerland. Regarding the figures for Brugg's subsidiaries, given their limited significance compared with the Group amounts, they were not estimated.

(\*\*) The figures for Brugg Switzerland have been estimated based on the 2021 figures.

<sup>(1)</sup> Ratio of total hours of training to the average number of employees.

<sup>(2)</sup> Ratio of total hours of training by category to the average number of employees by category.

<sup>(3)</sup> For 2022, the average hours of training have been calculated as the ratio of total hours of training by gender to the average number of employees divided by gender. For all the other years, the amounts have been calculated as the ratio of total hours of training by gender to the total number of employees divided by gender at 31 December.

<sup>(4)</sup> Percentage of employees who have followed at least one training course on human rights during the year.

<sup>(5)</sup> Percentage of employees who have followed at least one training course during the year.

<sup>(6)</sup> With regard to the figures for 2022, the issue of combatting corruption was dealt with as part of the course on the 231 Organisational Model. For this reason, the number of participants and hours has been calculated by adding the number of participants and hours relating to the 231 course to the number of participants and hours relating to the anticorruption course.

## Main training and skills development initiatives

**New projects** First-time initiatives carried out in 2022 included:

- As part of the **Tyrrhenian Lab**, a Level II masters course in **Digitalization of the electricity system for the energy transition** was launched, in collaboration with the universities of Cagliari, Palermo and Salerno. The course offers the 45 participants selected an innovative training programme that leaves them highly qualified and concludes with them joining the Terna Group;
- **E-learning modules** for the *New Ways of Working* offer (hereinafter NWoW), open to all employees and designed to provide training on: efficient team work, effective communication, personal care, smart working, emotional intelligence, resourcefulness and pro-activity, communication and relationships, growing with feedback;
- **Growing with feedback** (for the infrastructure unit), in line with the digital learning initiatives provided by the NWoW offer, training classrooms were launched within local departments/districts aimed at technical and operational personnel of the Infrastructure Unit;
- **Microsoft Office 365**: a package of 16 e-learning courses, divided into basic and advanced level, open to all employees with the aim of improving expertise in the use of Office 365 tools;
- **Executive Assistant Program**: training programme devoted to Terna's pool of Assistants, divided into five topic modules, provided every month between June and November 2022;
- **Project Management**: the programme involves seven initiatives aimed at various targets and mixed provision methods, aiming to provide training, and spread the Project Management culture. In 2022, the first two initiatives were carried out, at the same time, aimed at the Executive Managers and people reporting to Heads of Department. Initiatives aimed at the Project Controller, Portfolio Manager (simultaneously) and Office and Field managers (through digital learning) will continue in 2023;
- Terna launched new online courses for all employees dedicated to **Sustainability**. During the year the Company developed modules aimed at *Climate change, Assessing and Managing Sustainability and The SDGs and Terna's commitment*;
- The **Excellence in Security** programme was also launched to accelerate Terna's cultural change. The programme is part of a portfolio of complementary initiatives, designed to spread and promote the adoption of safe behaviour, shared rituals, key routines and support tools through training classes, on field partnerships and group coaching;
- **Cybersecurity**: a further four editions of the "Cyber Security by Design" course were run. **Cyber Security Awareness** online training also continued, with a new module added monthly. The **Cyber Security in Smart Working** course continues to be provided to all new hires.
- **OT Security**: during 2021, approximately 400 digital systems at Terna's stations were secured. To begin operating, an ad hoc training programme was created, consisting of 13 dedicated courses, launched in 2022 and aiming to develop and increase the technical and process skills of the employees involved. The courses for the first cluster have been completed, whilst in 2023 training will continue with clusters 2 and 3.
- **Energy Transition**: three e-learning modules have been designed and developed: *Technologies enabling the energy transition, Digital Transformation and Smart Energy, Innovative Business Models for the Energy Transition*.



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Initiatives launched in past years that continued in 2022 included:

Consolidated projects

- The initiatives dedicated to **Live Line Working**, the **Line and Substation Multiskills** programmes and the **Conventional Work Methods** project, launched at the end of 2021 to promote and increase knowledge development and abilities related to line and substations conventional work methods.
- Regarding the GDPR (General Data Protection Regulation), four **GDPR in capsules** online courses were implemented, dedicated to all employees, including new hires, in order to provide basic training on the topic.
- In terms of Legislative Decree 231, an online course was provided for all new hires (in February the same course was provided to all employees); an initiative dedicate to 231 representatives was also launched. **HSE activities** (Health, Safety & Environment), as in previous years, included courses to ensure compliance with Consolidated Law 81/08. The courses were conducted online, in virtual classrooms (via Teams) and in classes. In 2022, **over 500 employees** took part.

As in previous years, training was provided for emergency workers (first-aid and firefighter), initiatives dedicated to III Category individual protection Devices and training on Provisions for the Prevention of Electrical Risk (recurrent training) also continued.

For more information on training ("Comparative data") scan this QR code.



## Industrial relations<sup>75</sup>

Staff engagement is also achieved via structured dialogue with labour union representatives, in keeping with freedom of association and collective bargaining, deemed one of the key human rights issues by the Group.

2-30 > The data reported in this section includes the Group Companies that apply the current National Collective Labour Agreement for electricity workers<sup>76</sup>, which was renewed during 2022.

**In 2022, the unionisation rate of Terna's workforce was 42.5%**, with membership concentrated among the largest trade unions.

During 2022, Terna and the trade unions signed a new **Industrial Relations Protocol**, aiming to establish an innovative participation and dialogue model to effectively respond to the challenges brought by the energy transition, digitalisation and technological innovation.

The document, in addition to confirming the existing bilateral bodies (the **Health, safety and environment bilateral body** and the **Training and employment bilateral body**), involves the establishment of a new Committee and a further two bilateral bodies, described below.

The **Consultation Committee for Group Strategic Guidelines** is a consulting body and will meet prior to the establishment of the Group's Industrial Plan. In this session, the trade unions will be able to highlight issues of common interest and make proposals for the relevant matters. The Committee will also meet upon union request, in the event that significantly material information is to be shared.

The **Bilateral Welfare Body** aims to discuss business welfare initiatives and has the task of analysing Terna's structural smart-working performance, governed by the agreement of 9 November 2020, which provides up to 2 days a week of agile working.

Among its tasks, the **Equal opportunity, diversity, and inclusion body**, must develop recommendations and promote initiatives aiming to provide equal access to work, closing the pay gap between men and women and encouraging the inclusion of diversity.

In addition to strengthening bilaterality, the Protocol also promptly defines the forms and levels of union dialogue and establishes central/local relations through which such dialogue can take place.

Strengthening the union's abilities is another defining point of the Industrial Relations Protocol, by providing a virtual notice board on the Company's intranet for the trade unions, where reports and other union and work-related information can be published.

<sup>75</sup> The data reported in this section do not include the Tamini Group, Avvenia or the LT Group.

<sup>76</sup> All Terna's employees are covered by the national collective labour agreement for the electricity sector. Tamini Group employees are covered by the national collective labour agreement for the engineering sector; Avvenia's employees by the national collective labour agreement for trading companies.

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In the three-year period 2012-2022, negotiations with trade unions led to the signing of **32 agreements**.

The involvement of trade union organisations in the event of organisational changes, a central pillar of industrial relations, is governed by art. 47 of Law 428/90, based on which, if the Company is sold, employees and their representatives will receive **twenty-five days' notice**. In addition, Terna also refers to art. 9 of the Collective Bargaining Agreement, which includes the preventive involvement of the unions on main organisational changes to share the objectives and manage implementation.

402-1

Finally, in 2022, meetings were held by both the Bilateral Training Committee (2 meetings) and the Bilateral Health, Safety and Environment Committee (2 meetings), to boost dialogue, discussion and participation in these areas.

## Regulation of industrial action in the electricity service sector

In the event of industrial action, the essential services needed to ensure continuity of service are regulated by the National Labour Union Agreement signed in February 2013. As far as Terna is concerned, some shift workers who work in dispatching (real-time monitoring of the national electricity system; the remote operation of transmission plants; checks on production plans and the procurement of production resources; the monitoring coordination and operation of IT system; ancillary services and infrastructures used in dispatching) and staff from the Security Operations Centre are prohibited from taking part in industrial action.

Whilst entitled to suspend their normal duties during a strike, staff on call are obliged to ensure that they are contactable, even during the hours scheduled for the strike.

## Human rights at work

DNF

The protection of workers' health and safety is a fundamental **human right** to be guaranteed at all times. For Terna, it is a key value that guides its operations through the adoption of high standards in assessing, preventing and managing such risks.

In Terna, preventing health risks and physical integrity is applied in the work environment of both its employees and those of contractors and subcontractors involved in the Group's operations.

To confirm the high levels of attention to this issue, Terna has added the occupational safety indicator to the variable remuneration objectives for senior and middle managers, comprising the injury rate and the lost day rate for employees (see page 220). For the Chief Executive Officer, injuries involving contractors' personnel are also included.

## UM1 Health, safety and correct working practices

403-4 > The involvement of employees in matters relating to health, safety and the environment is currently regulated by law and collective bargaining, which provide for the election by all employees of **Staff Representatives for Safety and the Environment**. Specifically, as required by existing legislation<sup>77</sup>, meetings regarding safety are held by employers at least once a year and whenever there are significant changes in exposure to risks. In addition to the employer or a representative thereof, participants include the Prevention and Protection Service Manager, a competent physician and Representatives for Safety and the Environment.

The National Collective Labour Contract also provides for the establishment of a bilateral body (a **Commission**) – at electricity sector level – on **Health, safety and the environment** tasked with making proposals relating to the monitoring and coordination of training on environmental and safety issues which Terna and the secretariats of national trade unions (FILCTEM, FLAEI and UILTEC) set up in 2018. The Committee<sup>78</sup> usually meets every six months with its members comprising three representatives from the three national trade unions.

403-1 > Terna's commitment also involved the adoption, since 2017 of BS OHSAS 18001:2007 certification of its "Management System for Workers' Health and Safety" and the subsequent evolution into the **Occupational Health and Safety Management System**, UNI EN ISO 45001:2018, which covers 100% of the Company's activities and is incorporated within the Group's other certified management systems (see page 95). This system is based on an accurate risk assessment, with a particular focus on activities entailing electrical risk (Provisions for the Prevention of Electrical Risk) and falls from a height. Moreover, it provides the Company with assurance that it is always in compliance with applicable legislation and regulatory requirements (Legislative Decree 81/2008 and Legislative Decree 231/2001).

2-1 > Since 2021, Terna has in place a **Management System for the prevention of the spread of infections in workplaces**, which has received **Biosafety Trust Certification** from the certification body, RINA, for its Galbani Hub headquarters (Viale E. Galbani 55 and 68/70). During 2022, the Company was subject to a new assessment to guarantee retention of the certification. This concluded with a positive outcome.

## Protecting employees' safety

Italian safety legislation<sup>79</sup> is among the most stringent of any such laws in Europe and requires companies to carry out an analytical assessment of risks to employees' health and safety. Terna extends this requirement to include analysing the risks deriving from interference caused by works being carried out by contractors and subcontractors, covering all the activities involved in work at a construction site.

Terna's approach to occupational safety hinges on a system of tools that are applied to all corporate processes. This system calls for **clear safety policy guidelines**, starting with the Code of Ethics, and an **organisational structure responsible for safety** with operating units throughout Italy for each of which a **health and safety officer and competent physician** have been designated. This organisation is assisted by a central unit that sets policies and guidelines, carries out inspections at workplaces and construction sites and constantly analyses and monitors risks arising from the Company's activities.

403-3 > One of the most important activities an employer is required to carry out by law is **health surveillance**, the objective of which is prevention as well as verification over time, carried out in collaboration with the worker and the physician, of the adequate relationship between workers' health conditions and the specific duties assigned to them.

<sup>77</sup> Art. 35 of Legislative Decree 81/08.

<sup>78</sup> Terna and the national labour union's secretariats also established that the Committee's tasks and responsibilities provided for by art. 13 of the "Shared protocol regulating measures to combat and contain the spread of the Covid-19 virus at the workplace" of 14 March 2020 were taken on by Terna's Bilateral "Health, Safety and the Environment" Committee, in that said Committee has already been entrusted with tasks and assignments relating to these topics. Moreover, in the current state of a national emergency, said Committee can ensure its full and prompt participation to all necessary components, given its visibility throughout the Group.

<sup>79</sup> Legislative Decree 81/2008 "Consolidated law on the protection of health and safety at the workplace" dated 9 April 2008.

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The correct and full application of procedures is subject to inspections by Employers, internal compliance checks for all Terna Group companies and the external audits required for certification. As regards activities carried out by contractors, Terna conducts inspections of its own construction sites to verify the correct application of accident prevention regulations by the responsible health and safety officers and contractors.

**Assessments and tests**

	GROUP (*)			TERNA		
	2022	2021	2020	2022	2021	2020
Regular health checks	4,354	4,473	3,832	3,897	3,948	3,390
Examinations by competent physicians <sup>(1)</sup>	308	315	197	304	314	197
Inspections and tests <sup>(2)</sup>	243	138	161	235	120	143

(\*) The 2022 figures shown in the column Group in this table refer to Terna (electricity sector), the Tamini Group and the Brugg Group. For 2021 and 2020, the figures refer to Terna, the Tamini Group and Brugg Switzerland. Regarding the figures for Brugg's subsidiaries, given their limited significance compared with the Group amounts, they were not estimated.

<sup>(1)</sup> For Tamini, one visit for each plant is provided.

<sup>(2)</sup> Tests conducted by Prevention and Protection Service Managers and heads of Districts and Departments.

Should an employee of Terna or a contractor be injured or suffer a **near miss**, the local Environmental and Safety Protection unit, in collaboration with the worker or department involved, completes an injury/near miss form detailing the causes and dynamics of the event as well as any measures to be taken to reduce the possibility of a repeat occurrence. In the case of a serious or fatal injury<sup>80</sup>, or when a more in-depth investigation is called for, an internal commission comprised of Terna safety experts and specialists is set up and entrusted with drafting a detailed report containing the measures to be adopted throughout the Company.

< 403-2

The protection of workers' health and safety is subject to **research** conducted by a standing committee that involves various company departments. The aim is to identify and experiment with new personal protective equipment (Smart PPE) able to aid workers as they carry out their activities by encouraging good practices and responsible behaviour both individually and collectively.

All staff have access to key information regarding health and safety and innovations through various channels, including the Companies intranet (*HSE-Health, Safety and Environment Section* of the Document System), informative meetings and specific training centring on the topics of health and safety. In 2022, around 54,900 hours of training were provided, of which 45% was aimed at blue-collar workers (additional data on training may be found on page 213).

< 403-5

The **Terna for Health&Safety** programme was also launched in 2022. The programme is designed to develop and promote health, prevention and workplace safety issues, and explain the initiatives dedicated to Terna employees through the creation of a new brand. The Company also launched the **Excellence in Security** programme, aiming to spread the security culture to its employees and the **Workplace Health Promotion (WHP)** programme, based on the model promoted by the World Health Organisation to implement efficient policies and strategies to promote health in workplaces.

< 403-6

Terna organised technical workshops with the ANIE Companies and with Security Coordinators, in order to enhance the security culture and begin a new phase of cooperation, based on a shared wealth of knowledge and technical skills, good working practices, above all new cultural and behavioural models to make people accountable and responsible for themselves and others.

Finally, the **occupational safety indicator**, comprising the injury rate and the lost day rate and including injuries involving contractors' personnel, contributes to defining the variable remuneration of personnel in the departments concerned.

<sup>80</sup> The procedure described is also applied to fatal injuries involving contractors' employees.

## Occupational injuries

As in previous years, there were no fatal workplace accidents among the Group's employees in 2022, while there were two serious injuries resulting in an initial prognosis of more than 40 days.

The total number of injuries amounts to 23 (20 in 2021), including 4 with a prognosis of less than 3 days. At Terna, the injury rate slightly rose compared with the previous year, up from 0.53 in 2021 to 0.59 in 2022.

### 403-9 > Occupational injuries, Terna employees GRI-ILO definitions (\*)

	GROUP (**)			TERNA		
	2022	2021	2020	2022	2021	2020
Injury rate <sup>(1)</sup>	1.14	0.87	1.22	0.59	0.53	0.77
Fatality rate <sup>(2)</sup>	0	0	0	0	0	0
Serious injury rate where the initial prognosis is more than 40 days <sup>(3)</sup>	0.04	0.00	0.02	0.00	0.00	0.03
Number of injuries	53	38	50	23	20	27
- of which serious, where the initial prognosis is more than 40 days	2	0	1	0	0	1
- of which fatal	0	0	0	0	0	0
<b>Number of hours worked</b>	<b>9,285,513</b>	<b>8,777,239</b>	<b>8,212,981</b>	<b>7,805,938</b>	<b>7,551,183</b>	<b>7,038,326</b>
<b>TYPE OF OCCUPATIONAL INJURY</b>						
Falling from height	1	0	1	0	0	1
Traffic accident injury	4	5	3	4	5	2
Electrocution	2	0	2	1	0	2
Impact, crushing, cut	23	15	17	7	5	7
Falling on level ground, slipping	13	14	18	9	8	11
Manual handling of loads	5	1	5	0	1	2
Projection of solid fragments and/or other liquid substances	0	1	3	0	0	2
Other	5	2	1	2	1	0

(\*) As required by GRI protocols, the definitions adopted are those provided for by the International Labour Organisation (ILO). To aid comparison with other sources, the following notes show the figures for the same indicators calculated using alternative formulae.

(\*\*) The 2022 figures shown in the column Group in this table refer to Terna (electricity sector), the Tamini Group and the Brugg Group. For 2021 and 2020, the figures refer to Terna, the Tamini Group and Brugg Switzerland. Regarding the figures for Brugg's subsidiaries, given their limited significance compared with the Group amounts, they were not estimated.

<sup>(1)</sup> **Injury rate.** The number of injuries registered and reported to the competent social security office, divided by the number of hours worked during the year, multiplied by 200,000 (corresponding to 50 working weeks x 40 hours x 100 employees). To aid comparison with other sources, the **injury rate** is also calculated in accordance with the UNI 7249:2007 Standard. This indicator has been calculated using a multiplication factor of 1,000,000 rather than 200,000 (thereby obtaining a rate that is 5 times the corresponding ILO rate). Based on this method of calculation, the injury rate is 5.7 for the Group and 2.9 for Terna. In 2021, the rate for the Group was 4.3 and for Terna 2.6 (3.8 in 2020).

<sup>(2)</sup> **Fatality rate.** The number of fatalities registered and reported to the competent social security office, divided by the number of hours worked during the year, multiplied by 200,000 (corresponding to 50 working weeks x 40 hours x 100 employees).

<sup>(3)</sup> **Serious injury rate.** The number of injuries where the initial prognosis is more than 40 days registered and reported to the competent social security office, divided by the number of hours worked during the year, multiplied by 200,000 (corresponding to 50 working weeks x 40 hours x 100 employees). To aid comparison with other sources, the lost day rate is also calculated in accordance with the UNI 7249:2007 Standard. This indicator has been calculated using a multiplication factor of 1,000,000 rather than 200,000 (thereby obtaining a rate that is 5 times the corresponding ILO rate). Based on this method of calculation, the serious injury rate is 0.2 for the Group (0.0 in 2021 and 0.1 in 2020). **The serious injury rate for Terna based on this method of calculation was 0.0 in 2022, 0.0 in 2021 and 0.1 in 2020.**

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### Occupational injuries, Terna employees – by gender

	GROUP (*)			TERNA		
	2022	2021	2020	2022	2021	2020
<b>Number of injuries</b>	<b>53</b>	<b>38</b>	<b>50</b>	<b>23</b>	<b>20</b>	<b>27</b>
- of whom men	52	36	49	22	18	27
- of whom women	1	2	1	1	2	0
Injury Rate - men	1.31	0.95	1.37	0.66	0.55	0.88
Injury Rate - women	0.15	0.34	0.19	0.17	0.39	0
Lost Day Rate - men	46.20	28.48	46.19 (**)	25.90	18.39	44.50
Lost Day Rate – women	0.60	6.16	9.41 (**)	0.68	7.03	9.96

(\*) The 2022 figures shown in the column Group in this table refer to Terna (electricity sector), the Tamini Group and the Brugg Group. For 2021 and 2020, the figures refer to Terna, the Tamini Group and Brugg Switzerland. Regarding the figures for Brugg's subsidiaries, given their limited significance compared with the Group amounts, they were not estimated.

(\*\*) The figures shown refer solely to Terna and Tamini as the data for 2020 relating to Brugg Switzerland are not available.

As regards Tamini, injuries in 2022 are primarily due to uncoordinated movements and inattentive use of work equipment.

During the year, to improve the workers' level of concentration, various initiatives were also implemented. These included the addition, in each of the five facilities of specific dedicated workstations in which, every day, managers and personnel report, examine and discuss potentially dangerous situations; the planning of two-month HSE reunions with facility managers, plant managers, Prevention and Protection Service Managers and quality managers, in order to monitor the targets set in the improvement plan. For the purposes of comparison with previous reports, the table below shows the lost day rate, the occupational disease rate and the absentee rate.

### Other indicators - occupational injuries suffered by Terna employees - GRI-ILO definitions (\*)

	GRUPPO (**)			TERNA		
	2022	2021	2020	2022	2021	2020
Lost Day Rate <sup>(1)</sup>	39.65	25.90	47.90	22.11	16.85	40.07
Occupational Diseases Rate <sup>(2)</sup>	0	0	0.02	0	0	0.03
Absentee Rate <sup>(3)</sup>	9,077.7	4,447.1	5,950.9	8,626.1	3,718.6	5,246.5

(\*) As required by GRI protocols, the definitions adopted are those provided for by the International Labour Organisation (ILO). To aid comparison with other sources, the following notes show the figures for the same indicators calculated using alternative formulae.

(\*\*) The 2022 figures shown in the column "Group" in this table refer to Terna (electricity sector), the Tamini Group and the Brugg Group. For 2021 and 2020, the figures refer to Terna, the Tamini Group and Brugg Switzerland. Regarding the figures for Brugg's subsidiaries, given their limited significance compared with the Group amounts, they were not estimated.

<sup>(1)</sup> **Lost Day Rate.** The ratio of days lost due to injury to the number of hours worked during the year, multiplied by 200,000. The days lost are calendar days and are counted from the day on which the injury occurs. To aid comparison with other sources, the lost day rate is also calculated in accordance with the UNI 7249:2007 Standard. This indicator has been calculated using a multiplication factor of 1,000 rather than 200,000. Based on this method of calculation, the lost day rate is 0.20 for the Group and 0.11 for Terna in 2022 (0.08 in 2021 and 0.20 in 2020 for Terna).

<sup>(2)</sup> **Occupational Diseases Rate.** The total number of cases of occupational disease divided by the number of hours worked during the year, multiplied by 200,000. In 2022, there were no cases of occupational disease reported by Terna.

<sup>(3)</sup> **Absentee Rate.** The number of days of absence due to illness, strikes, injuries and leave out of the number of days worked in the same period, multiplied by 200,000. To aid comparison with other sources, this indicator has been calculated as a percentage of the days worked. Based on this method of calculation, the absentee rate is 4.5 for the Group and 4.3 for Terna in 2022 (1.9 in 2021 and 2.6 in 2020 for Terna).

The figures for workers employed by contractors are shown below, whilst additional information contractors' health and protection safety measures is provided on pages 218-219.

**Occupational injuries suffered by contractors and sub-contractors - GRI-ILO definitions (\*) (\*\*)**

	TERNA		
	2022	2021	2020
Injury rate <sup>(1)</sup>	1.03	0.87	1.13
Fatality rate	0	0	0.06
Serious injury rate where the initial prognosis is more than 40 days	0.03	0.09	0.09
Number of injuries	35	29	38
- of which serious, where the initial prognosis is more than 40 days	1	3	3
- of which fatal	0	0	2
<b>Number of hours worked</b>	<b>6,766,899</b>	<b>6,687,917</b>	<b>6,721,754</b>
<b>TYPE OF OCCUPATIONAL INJURIES</b>			
Falling from height	1	0	1
Traffic accident injury	0	1	2
Electrocution	3	0	1
Impact, crushing cuts	24	15	20
Falling on level ground, slipping	6	10	7
Burns	0	0	1
Manual handling of loads	0	3	5
Projection of solid fragments and/or liquid substances	0	0	0
Other	1	0	1

(\*) As required by GRI protocols, the definitions adopted are those provided for by the International Labour Organisation (ILO). To aid comparison with other sources, the following notes show the figures for the same indicators calculated using alternative formulae.

(\*\*) In the Tamini Group, 2 injuries related to impact, crushing and cuts were recorded in 2022. Regarding the Brugg Group, during 2022 the Company Brugg Switzerland recorded 3 injuries related to impact, crushing and cuts. The number of hours worked by Tamini Group and Brugg Group contractors is not currently available.

<sup>(1)</sup> **Injury rate.** The number of injuries registered and reported to the competent social security office, divided by the number of hours worked during the year, multiplied by 200,000 (corresponding to 50 working weeks x 40 hours x 100 employees). To aid comparison with other sources, the injury rate is also calculated in accordance with the UNI 7249:2007 Standard. This indicator has been calculated using a multiplication factor of 1,000,000 rather than 200,000 (thereby obtaining a rate that is 5 times the corresponding ILO rate). Based on this method of calculation, **the injury rate is 5.2 in 2022** (4.3 in 2021 and 5.7 in 2020).

2022 saw continuation of the monitoring of construction sites and injuries to people employed by contractors to ensure the correct application of existing safety regulations and technical procedures. Six injuries were reported during the year involving personnel employed by a contractor carrying out work for Terna's overseas companies, none of which were serious.

**"Health and safety" target - KPI and targets in the 2022 ESG plan**



KPI	TARGET				
	2022		2023	2024	2025
	TARGET	RESULT			
Safety indicator	≤ 1	0.74	≤ 1	≤ 1	≤ 1



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## Protecting workers' human rights at contractors' construction sites

< 2-6

The figure for the number of staff employed by contractors and subcontractors in 2022 is in line with the figure for 2021. These figures are especially significant as they reflect Terna's ability to maintain employment levels in the downstream supply chain during the period of the pandemic.

< 2-8

< EU17

### Employees of contractors and subcontractors (\*) (\*\*)

	TERNA		
	2022	2021	2020
Number of days worked	890,381	879,989	884,441
Full Time Equivalent	4,047	4,000	4,020

(\*) The figures take into account the duration of contracts and the variable nature of the related workforce and pertain to the different types of contracts awarded by Terna, ranging from major works to those for cutting back vegetation located under power lines. The number of working days and FTEs are estimated based on average daily attendances at the largest sites and the value of the works contracted out at smaller sites. Further information about the types of contracts used by contractors is not available.

(\*\*) This table does not include data regarding Tamini as the hours worked by the employees of contractors and/or subcontractors are not currently available.

< EU18

Given the substantial use of external labour at Terna's construction sites, works contracts are subject to stricter rules, not only in terms of qualification, but also regarding management, with reference to occupational safety, the requirements of which are excluded from any lowest price concerns during the award process.

During the qualification process, Terna requires evidence of documented procedures to protect workers' health and safety. For companies from sectors deemed most significant from an environmental and safety point of view, an in-depth analysis of management practices is required.

Terna requires additional qualification from contractors, specifically regarding:

- their personnel's knowledge of Italian;
- adequate specific training for all construction site workers on the use of personal protective gear, on the risks set out in the Safety and Coordination Plans and in the Operational Safety Plans and on the operating procedures and the environmental protection measures set forth in the specific operating procedure Management of environmental aspects during construction appended to each individual contract;
- attendance at training courses for certain specific roles (e.g., workers involved in the assembly and maintenance of overhead power lines, PES (expert person) and PAV (warned person) in compliance with the CEI 11-27 Standard, workers assigned to cutting back vegetation, site managers, foremen and safety officers;
- appointment of a Prevention and Protection Service Manager, a construction site safety representative, a crisis manager and deputy and an appointed physician;
- a requirement that the contracts entered with contractors include the need to keep records of injuries occurring during the year.

The actual implementation of training is verified via the *Qualified Company Personnel* online platform. To minimise the risk of violation of human and labour rights to the detriment of contractors' employees, in addition to specific information on key contracts, Terna requires a copy of an insurance policy taken out to cover third-party liability and damage to persons and property, including assets owned by the contractor, for the entire duration of the works and for an amount commensurate with the nature of the works. A copy of the contractor's records of social security and pension contribution payments is also required.

From 2019, all works and supply contracts involving work onsite contain a requirement to provide the information needed to, on the one hand, closely monitor and assess injuries to contractors' personnel and, on the other, acquire the data necessary to compute contractors' injury rates.

Terna has drawn up a preventative safety and environmental protection monitoring system for construction sites, broken down into two levels:

- First level: the contracting entity is entrusted with monitoring, via checks, the work carried out by the Construction Safety Manager and the contractors. 116 checks were carried out in 2022;
- Second level: Terna (Health & Safety Environment Department) is responsible for spot checks designed to monitor the entire management and control process at construction sites.

Regarding the environmental checks provided for in the second level, 23 construction sites were monitored in 2022 in connection with the following aspects:

- Organisation of sites and traffic;
- Site documentation;
- PPE, equipment and machinery;
- Phases of the project and operational risk;
- Checks on the work of safety coordinators;
- Waste management;
- Excavated soil and rocks;
- Site equipment storage management;
- Hazardous substances and accidental spills;
- Rainwater and supplies;
- Dust and sediment emissions;
- Noise;
- Site-specific characteristics and planning consent regulations.

None of the checks produced evidence of any critical issues. Finally, together with companies that are members of ANIE (National Federation of Electro-technical and Electronic Businesses) and leading Italian operators of networks and infrastructure, Terna sets up and takes part in technical committees. The aim is to share experiences and regulatory interpretations in order to ensure ongoing improvements with regard to health and safety at the workplace.

### UM3 Good business practices: respecting diversity, inclusion and wellbeing

Terna's awareness of **employees' importance** is reflected in both a constant focus on updating their skills, needed to ensure achievement of the Group's strategic objectives, and on their wellbeing, meaning their work-life balance, access to dedicated additional services and respect.

Promoting the value of diversity, Terna enhances the uniqueness of employees by creating an increasingly inclusive work environment, encouraging collaboration and creativity and allowing employees to develop their potential and humanity. In line with the underlying values of its **Code of Ethics**, based on the general ethical principles of legality, honesty and responsibility, and those specific to the Group regarding sound management, respect, equality and transparency, Terna further strengthened its commitment to promoting and protecting diversity and punishing any form of discrimination and harassment<sup>81</sup> in 2021. This took the form of a specific **Diversity & Inclusion Policy**. During 2022, the People Organization & Change department established a unit dedicated to these issues.

<sup>81</sup> Any behaviour not complying with the principles included in the Policy, including harassment or any form of physical and/or psychological violence, are to be reported through the Whistleblowing channel. During 2022, there were no episodes of discrimination or harassment.

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## Company welfare and wellbeing

UM2

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Company welfare comprises a host of initiatives, opportunities and services that the Company offers its employees, including part-time work and apprenticeships, in order to enhance their wellbeing and work-life balance.

During 2022, the various welfare initiatives were based on continuous active and direct listening of employees, with plans to improve their work-life balance and increase knowledge on the offers available, in line with the values and challenges included in the *Leading NexT* Leadership model. The welfare instruments previously launched were also confirmed and others were launched in the areas described below:

- **Health:** includes useful information on the supplementary pension scheme (Fopen; Fondenel for managers) healthcare plans (Fisde) and prevention campaigns promoted by the Company for its employees.

< 403-6

### Pension plans

< 201-3

	TERNA		
	2022	2021	2020
Employees covered by Pension Plans (Fopen-Fondenel)	3,705	3,698	3,522
Employees covered by Pension Plans (other pension schemes)	19	19	19
Employees covered by Pension Plans (%)	82	88	90

## FOCUS

### Komen: prevention campaign and promoting health

In 2022, Terna renewed its partnership with the **Susan G. Komen Italy Association**, a non-profitable organisation active in the fight against breast cancer in Italy, which protects women's' health with awareness, information and training initiatives, including the **National Itinerant Women's Health Promotion Program**.

In February, in collaboration with the **HSEQ – Environmental and Safety Protection Unit**, the Komen association promoted the first annual edition of its **Caravan of Prevention**, offering 157 of Terna's employees the opportunity to benefit from free multi-screening visits through its three mobile units with specialist medical personnel. 62 breast screenings, 35 thyroid screenings and 60 dermatological screenings were carried out.

Starting in March, the Caravan of Prevention continued its journey across Italy, with the first stop in Cagliari, providing diagnostic tests and free screenings, facilitating continuous prevention and promoting health.

- **Loans and insurance:** this comprise useful information on currently available forms of financial aid and insurance;
- **Family:** collects all the information on the favourable conditions, compared with those set out in the National Collective Labour Agreement, adopted by the Company, the crèche set up at our offices in Rome and leave for the first day of elementary school;
- **Life & Work:** describes the initiatives that make it easier for employees to balance their working and private lives, such as flexible hours, structured remote working and mobility services;
- **Performance-linked bonus:** comprises useful information to manage and convert the bonus into goods and welfare services;
- **Sport & Culture:** includes information on the Recreational, Cultural and Sports Association, ARCA, and information on corporate wellness;
- **Partnership:** provides the various agreements with favourable conditions for Terna's employees.

In terms of improving the offer and increasing knowledge, the following initiatives were carried out during 2022:

- regular monitoring and update of the Intranet content;
- expanded Fisde (Integrative Health Scheme), including in the current package to cover any future care needs (Long Term Care);
- increased goods and services offered when converting the Performance Bonus (vouchers, fuel vouchers, early use in collaboration with Arca). Supporting employees through direct channels and monitoring the various phases of the Performance Bonus;
- support in organising sporting events such as amateur tournaments throughout Italy, in collaboration with ARCA;
- roadshow, cycle of eight physical meetings, to discuss the current offering and outline new projects, focusing on the 2022 Performance Bonus;
- the launch and monitoring of Gympass, a digital and physical wellness platform, available to all employees to improve their physical wellbeing, presented through an onsite tour of the eight Italian sites with local ambassadors;
- rolling – review of the portal dedicated to agreements to improve, renew and expand the offering package.

## Parental leave and childcare

Italian law regulates maternity leave and parental leave and provides general coverage. In comparison, Terna offers more favourable conditions, in application of the National Labour Contract for the industry and company agreements.

The most important measures include:

- five months paid maternity leave, provided to the mother before and after birth. Terna guarantees full pay compared with the 80% provided for by law;
- an additional six months of parental leave may be taken on 30% pay. Terna has raised this amount to 45% and 40%, respectively, in the first and then in the second and third months of the period. Paternity leave may also be taken, up to a maximum of eleven months of total leave taken by both parents. If not used in the first six years of a child's life, the leave may be taken later up to when the child turns twelve, but in the form of unpaid leave;
- parental leave for both parents in the event of illness of children under the age of 3, until the end of the illness and parental leave in the event of illness of children between the ages of 3 and 12 for both parents, alternating, for a maximum of 5 days a year. In both cases, leave is unpaid;
- two hours a day of paid leave for breast feeding for the first year of the baby's life, available to the father in the event that the mother does not make use of it;
- three days per month, also in the form of hours, of paid leave to look after children or other family members with serious disabilities;
- special leave for two years in the event of a child or other close relation having a serious disability;
- more flexible working hours for parents with children attending junior high school.

Under a specific union agreement signed in 2017, Terna has also introduced additional measures to improve work-life balance and further support parenthood. This agreement grants half a day's leave to accompany one's children on their first day of primary school and an additional five days of paid leave, including that set by regulatory provisions.

The table below shows the number of employees who have taken at least 29 days' parental leave, and information on the rate of return to work and retention rate.

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**Parental leave**

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	GROUP (*)			TERNA		
	2022	2021	2020	2022	2021	2020
<b>Employees who have taken parental leave (≥ 29 days)</b>	<b>23</b>	<b>30</b>	<b>31</b>	<b>22</b>	<b>29</b>	<b>30</b>
- of whom men	4	2	5	4	2	5
- of whom women	19	28	26	18	27	25
<b>Employees returning to work after taking parental leave (≥ 29 days)</b>	<b>21</b>	<b>29</b>	<b>31</b>	<b>21</b>	<b>29</b>	<b>30</b>
- of whom men	4	2	5	4	2	5
- of whom women	17	27	26	17	27	25
<b>Employees working for Terna 12 months after having taken parental leave (≥ 29days)</b>	<b>27</b>	<b>31</b>	<b>16</b>	<b>27</b>	<b>30</b>	<b>16</b>
- of whom men	2	5	3	2	5	3
- of whom women	25	26	13	25	25	13
<b>Rate of return to work<sup>(1)</sup></b>	<b>91.3</b>	<b>96.7</b>	<b>100</b>	<b>95.5</b>	<b>100</b>	<b>100</b>
- of whom men	100	100	100	100	100	100
- of whom women	89.5	96.4	100	94.4	100	100
<b>Retention rate<sup>(2)</sup></b>	<b>90</b>	<b>100</b>	<b>-</b>	<b>93.1</b>	<b>100</b>	<b>88.9</b>
- of whom men	100	100	-	100	100	100
- of whom women	89.3	100	89.3	92.6	100	86.7
<b>Employees who have taken compulsory maternity leave</b>	<b>43</b>	<b>23</b>	<b>32</b>	<b>42</b>	<b>22</b>	<b>32</b>

(\*) The 2022 figures shown in the column Group in this table refer to Terna (electricity sector), the Tamini Group and the Brugg Group. For 2021 and 2020, the figures refer to Terna, the Tamini Group and Brugg Switzerland. Regarding the figures for Brugg's subsidiaries, given their limited significance compared with the Group amounts, they were not estimated.

<sup>(1)</sup> Rate of return to work is the ratio of employees, divided by gender, returning to work after taking parental leave to the number of employees who have taken parental leave during the year.

<sup>(2)</sup> Retention rate, which represents the loyalty indicator, is the ratio of employees, divided by gender, working for Terna after having taken parental leave to the number of employees who took parental leave during the previous year.



DNF

## Diversity and equal opportunities

UM3

405-1 &gt;

Terna is committed to promoting and protecting diversity, preventing and punishing any form of discrimination and harassment using staff selection, development and compensation systems that recognise and reward merit. All forms of discrimination, starting with the selection and recruitment process, are explicitly prohibited by the Group's Code of Ethics and the Group's **Diversity & Inclusion and Respecting Human Rights policies**.

The protection of these matters was further strengthened in May 2022 with the establishment, within the "People Organization & Change" department, of a unit dedicated to inclusion within the Company.

### Women in leadership: the EmpowHer project

Within the scope of the *Inclusive leadership* topic area of the NexTerna programme, the **EmpowHer** project is being implemented. This is an engagement project designed to educate employees on gender equality and promote female talent, to increase inclusion as a recruitment and performance lever, able to generate a positive impact on the business.

Starting from the **LeadingNexT** leadership model, which identifies inclusion as one of three Terna values, together with courage and loyalty, male technicians are considered to be predominant in the electricity sector. With the **EmpowHer** project, Terna aims to empower women to add value and promote inclusion in work groups. Thanks to this project, Terna has increasingly focused on creating an adequate and attractive working environment for women, both internally, by constantly focusing on the growth and development of women already in the Company, and externally, aiming to encourage greater attention to reducing stereotypes and the pay gap through role modelling initiatives and promoting study programmes, above all in STEM subjects.

Since 2021, EmpowHer has four distinct threads, all sharing the same goal of encouraging people to think about the impact on business made by gender diversity in helping to create a more inclusive working environment and more diverse groups. These threads are:

- **Voice Out**, an ideas competition to encourage the emergence of structured proposals for enabling women within the Company to contribute and participate more, inspired by New Ways of Working, to which ten mixed gender teams took part. The three winning ideas were included in the **Design2Be Next** programme, an innovative development and empowerment programme to support individual talent and promote Terna's culture, values and its leadership model;
- **Role Model Talks**, five online meetings, followed on average by over 1,000 people, with "Role Model" women in senior positions within Italian institutions to provide personal development inspiration for Terna's employees;
- **Scholarships**, in collaboration with Intercultura Foundation Onlus, Terna offered five scholarships overseas (Ireland, France, Wales and Denmark), to give the daughters of Terna personnel the opportunity to have a multicultural, open and inclusive educational experience, with a variable study stay, up to a year;
- **Job Shadowing**, a project in line with the LeadingNexT leadership model and focused on promoting female talent. This provides the chance to work alongside men and women in senior or middle management for 46 young female graduates under 30 years of age, accompanied by a month-long engagement programme. The employees involved have the opportunity to compare and analyse their work behaviour in response to performance, engagement and wellbeing challenges, with respect to the pivotal points – Resourcefulness, Sustainability, Innovation and Involvement.

Almost all employees are Italian citizens, with only 49 having foreign citizenship<sup>62</sup>. In addition, the vast majority of employees are men, due to a traditional shortage of female labour for more technical and operational roles. Nonetheless, the presence of women is increasing, partly reflecting general labour market trends, which show that female participation is on the rise.

<sup>62</sup> Terna's employees' nationalities are: 4,476 Italian (of which 853 managers, 1 Ecuadorian, 7 Romanian, 3 Spanish (of which 2 managers), 2 Ukrainian, 3 Egyptian, 1 Indian, 5 Moroccan, 2 Moldavian, 3 Albanian, 1 Belgian (manager), 1 Burkinabe, 1 Mauritanian, 1 Ivorian, 1 Russian, 1 Senegalese, 1 Tunisian, 1 Montenegrin, 3 American (of which 1 manager), 1 Lebanese, 1 French, 2 German (of which 1 manager), 1 Ghanaian, 1 Greek (manager), 1 Korean (manager), 3 Swiss.

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The percentage of women in Terna's total workforce in Italy was 9.0% at the end of 2005 (the year in which Terna became an independent company). This figure has grown steadily since then, registering 17% at the end of 2022, also thanks to the targets in the updated 2021-2025 Industrial Plan, which expect the total amount of women to reach 20% of the workforce by 2025 and 22% by 2030. 30.3% of hires, not considering blue-collar workers, were women (30.2% in 2021, 24.4% in 2020); in terms of the Group, the figure was 29.4%. For 2022, the percentage of entry level positions filled by women is 17.23%.



**“Increasing female presence in the company” - KPI and targets in the 2022 ESG plan**

KPI	2022		TARGET			
	TARGET	RESULT	2023	2024	2025	2030
Women as a percentage of the Group's total workforce	15%	16.2%	17.5%	18.7%	20.0%	22.0%
Women as a percentage of the Group's total workforce, not considering blue-collar workers	22%	22.1%	23%	24%	25%	27.0%

The main indicators chosen by Terna to monitor the equal treatment of men and women show that the management and development systems adopted do not disadvantage women. Notably, in 2021, **the percentage of female managers out of the total of managers (23.7%) was once again higher than the percentage in relation to the total number of employees, without taking into account blue-collar workers (21.9%).**

## FOCUS

### Towards the Gender Equality Certificate

As part of the National Recovery and Resilience Plan (NRRP), among the work policies (Mission 5 *Inclusion and Cohesion*), the Italian Government introduced the **Gender Equality Certificate** (pursuant to Reference Practices PdR UNI 125:2022), to promote gender equality, close the pay gap and reduce gender discrimination. This involves a €10 million reward upon achievement of the objective. Companies will be able to benefit from an **Equality Bonus**, being a 1% tax relief on contributions up to €50,000 a year, in addition to obtaining benefits in terms of public tenders and improved eligibility for EU funding and state aid.

The obligation for organisations with over 50 employees to prepare a report on the situation regarding male and female personnel in all professions and the state of recruitment is still in force.

During 2022, in line with the values underlying its **Code of Ethics** and reiterated in the **Respecting Human Rights** and **“Diversity & Inclusion” policies**, Terna began its internal process aiming to obtain this certificate, recognising several benefits and the ability to accelerate the cultural change with a positive impact on the business and innovation.

During the year, after an initial sharing phase with all the Company's departments involved in the certification process, the topic areas to act on to develop projects, whose progress can be measured over time through specific indicators (KPIs), have been identified. Above all, the areas in which Terna has engaged are: (1) Culture and Strategy; (2) Governance; (3) HR processes; (4) Equal pay by gender; (5) Opportunity to grow and the inclusion of women in the Company; (6) Protecting parents and work-life balance. The certificate is expected to be obtained in 2023, will be valid for three years and is subject to interim annual assessment.

Remuneration data also show moderate pay gaps for office staff and middle managers, with wider gaps for senior managers, although the number of people considered is smaller and pay gaps are consequently more influenced by the nature of the related roles and the fact that there are few incoming and outgoing staff. Generally, Terna is committed to reducing the pay gap and fighting any form of discrimination that impacts on equal opportunities.

405-1 > **Equal opportunities for men and women**

	GROUP (*)			TERNA		
	2022	2021	2020	2022	2021	2020
<b>Women out of total employees</b>						
- women out of total	16.1	15.1	13.9	17.0	15.6	14.2
- women out of total, without considering blue-collar workers	22.0	21.0	19.7	21.9	20.7	19.2
- female senior managers out of total senior managers <sup>(1)</sup>	17.6	15.1	10.7	19.2	16.2	11.1
- female senior and middle managers out of total senior and middle managers	20.4	20.1	19.0	21.3	20.9	19.8
- female middle managers out of total middle managers	20.7	20.7	19.9	21.5	21.4	20.6
<b>Employment growth %</b>						
- female annual change	16.9	15.8	4.3	16.7	17.5	3.9
- male annual change	8.2	5.4	1.7	5.3	5.7	1.3
<b>Staff leaving <sup>(2)</sup></b>						
- women left	3.7	4.0	1.8	3.2	2.5	1.5
- men left	4.4	4.0	3.2	3.9	3.3	3.1
<b>Staff joining <sup>(3)</sup></b>						
- women joined	19.4	19.6	6.1	19.9	19.9	5.4
- men joined	9.6	9.4	4.9	12.9	9.0	4.4
<b>Management positions</b>						
- female managers out of total women	1.9	1.8	1.3	2.0	1.8	1.3
- male managers out of total men (excluding blue-collar workers)	2.5	2.6	2.6	2.3	2.5	2.4
<b>Promotions <sup>(4)</sup></b>						
- promotion to middle manager as % of category of origin - women	3.0	3.7	1.3 <sup>(5)</sup>	3.0	4.0	1.5
- promotion to middle manager as % of category of origin - men	3.4	3.1	1.9 <sup>(5)</sup>	3.4	3.5	2.0
<b>Pay gap between men and women as a % <sup>(6)</sup></b>						
- senior managers	81.9	86.3	83.5	80.7	85.1	83.1
- middle managers	93.3	95.0	94.3	94.7	95.7	95.3
- office staff	98.2	96.7	97.8	100.5	99.5	100.0
<b>Remuneration gap between men and women as a % <sup>(6)</sup></b>						
- senior managers	80.6	79.8	86.8	78.0	77.9	87.7
- middle managers	93.7	95.6	94.7	95.1	96.3	95.8
- office staff	93.7	92.2	93.5	95.5	94.7	95.3
<b>Other indicators – Equal opportunities</b>						
Women as a percentage of total managers in revenue generating departments <sup>(7)</sup>	9.3	12.1	14.0 <sup>(8)</sup>	6.0	11.1	10.0
Women out of total STEM positions <sup>(8)</sup>	18.0	17.4	17.7 <sup>(8)</sup>	18.2	17.6	17.8

(\*) The 2022 figures shown in the column Group in this table refer to Terna (electricity sector), the Tamini Group and the Brugg Group. For 2021 and 2020, the figures refer to Terna, the Tamini Group and Brugg Switzerland. Regarding the figures for Brugg's subsidiaries, given their limited significance compared with the Group amounts, they were not estimated.

<sup>(1)</sup> Considering only positions two levels from Terna's CEO, women cover 23.7% of the positions.

<sup>(2)</sup> The figure is the ratio of employees leaving during the year by gender to the total number of employees by gender at 31 December 2021.

<sup>(3)</sup> The figure is the ratio of employees recruited during the year by gender to the total number of employees by gender at 31 December 2021.

<sup>(4)</sup> This figure is based on the ratio of promotions to middle manager during the year to employees classed as office staff in the previous year, calculated by category (men/women). The promotions from blue-collar worker to office staff and middle manager to senior manager are not considered, given their limited significance on an annual basis.

<sup>(5)</sup> This figure is based on the annual basis pay of women in the different categories as a percentage of the annual basic pay of men in the same category. This figure has not been calculated for blue-collar workers as there are no women in this category. Terna and Tamini do not employ women among their blue-collar personnel. If the scope is extended to include Brugg, there are 4 women in the blue-collar category. At Brugg Group, the only company for which there is any sense in computing the pay gap, the figure is 98.9.

<sup>(6)</sup> This figure is based on the total annual remuneration of women in the different categories as a percentage of the total annual remuneration of men in the same categories. In addition to basic pay, total pay also includes productivity bonuses, various forms of incentive and the value of benefits received during the year. Terna and Tamini do not employ women among their blue-collar personnel. If the scope is extended to include Brugg, there are 4 women in the blue-collar category. At Brugg Group, the only company for which there is any sense in computing the pay gap, the figure is 98.9.

<sup>(7)</sup> The figure refers to women as a percentage of total senior or middle managers in so called "revenue generating" departments, which contribute directly to the production of output in terms of products and services; this does not typically include support departments such as Human Resources, Legal, IT, Administration, etc.

<sup>(8)</sup> The figure refers to women as a percentage of total STEM positions.

<sup>(9)</sup> The figures shown refer solely to Terna and Tamini as the data for 2020 relating to Brugg Switzerland are not available.



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Almost all employees are Italian citizens, but the Company has always encouraged inclusion within its business, eliminating any form of discrimination; 49 employees have foreign citizenship, including 7 managers. Terna has always monitored the diversity of its managers, specifically focusing on the appointment of women in senior positions.

### Diversity in the company's management

&lt; 202-2

	TERNA		
	2022	2021	2020
<b>Managers with Italian citizenship (%) <sup>(1)</sup></b>	<b>99.30</b>	<b>99.62</b>	<b>99.71</b>
Senior managers <sup>(2)</sup>	11	8	9
- of which women	3	1	1
Middle managers <sup>(3)</sup>	65	63	58
- of which women	15	9	12
Women as a percentage of total senior management positions (%)	23.7	14.1	19.4
Senior managers with Italian citizenship	11	8	9
Senior managers with Italian citizenship (%)	100	100	100

<sup>(1)</sup> Managers refers to senior and middle managers

<sup>(2)</sup> "Senior Managers" include top executives of Terna S.p.A. reporting directly to the CEO (including the CEOs of subsidiaries Tamini and Brugg), people reporting to the Chairwoman and the CEOs of Terna Rete Italia, Terna Energy Solutions and Terna Plus

<sup>(3)</sup> "Middle managers" include executives two levels below Terna's CEO, excluding senior managers.

In addition, all the Company's initiatives are designed to increase female employment, also following participation in **D Value**, an association established by a number of female managers at various Italian businesses.

An additional form of inclusion promoted by Terna regards employees from legally protected categories. At 31 December 2022, Terna employed 158 people (3.5% of its employees) from legally protected categories (151 in 2021 and 144 in 2020), in line with the regulations applicable to the Company.

&lt; 405-1

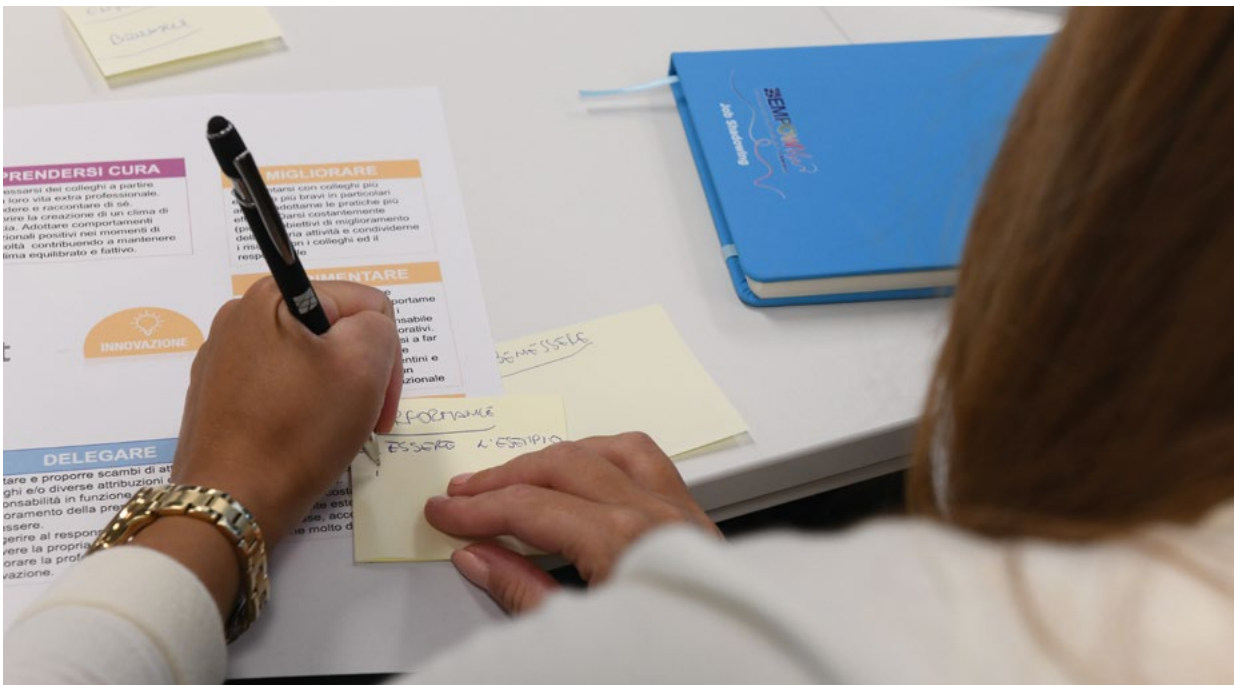
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# Social and relationship capital

The quality of Terna's relationship capital is determined by the ability to listen to groups who, for various reasons, have relations with the Company (stakeholders<sup>83</sup>), taking their interests into account and analysing their compatibility with the specific interests of the Company and the obligations established by the concession, so as to be able to adopt a coherent and transparent course of conduct. This is in line with the principles set out in the *Corporate Governance Code*<sup>84</sup>, which assigns the Board of Directors, among others, responsibility for fostering “*dialogue with shareholders and the Company's other key stakeholders in the forms considered most appropriate*”.

With this awareness, Terna has drawn up a stakeholder map and built **specific engagement programmes** to identify the most effective actions to be undertaken to optimise current engagement methods and listen to the most influential stakeholders on a periodic basis, thus avoiding the risk of failing to promptly identify any problems that might have reputational as well as economic and financial repercussions.

The tools developed by the Company to manage its relationship capital include two specific sets of guidelines. The first defines the **stakeholder management model**, while the second focuses on the **engagement of local stakeholders in Terna's grid planning activities**.



<sup>83</sup> Stakeholders are persons and/or organisations that can influence or be influenced by the Company's activities.

<sup>84</sup> The new *Corporate Governance Code* was approved by Borsa Italiana's Corporate Governance Committee on 31 January 2020. Companies adopting the Code must apply it from the first financial year beginning after 31 December 2020, announcing this to the market in the *Report on Corporate Governance and the Ownership Structure*. The Code is available at the following link: <https://www.borsaitaliana.it/comitato-corporate-governance/codice/2020.pdf>

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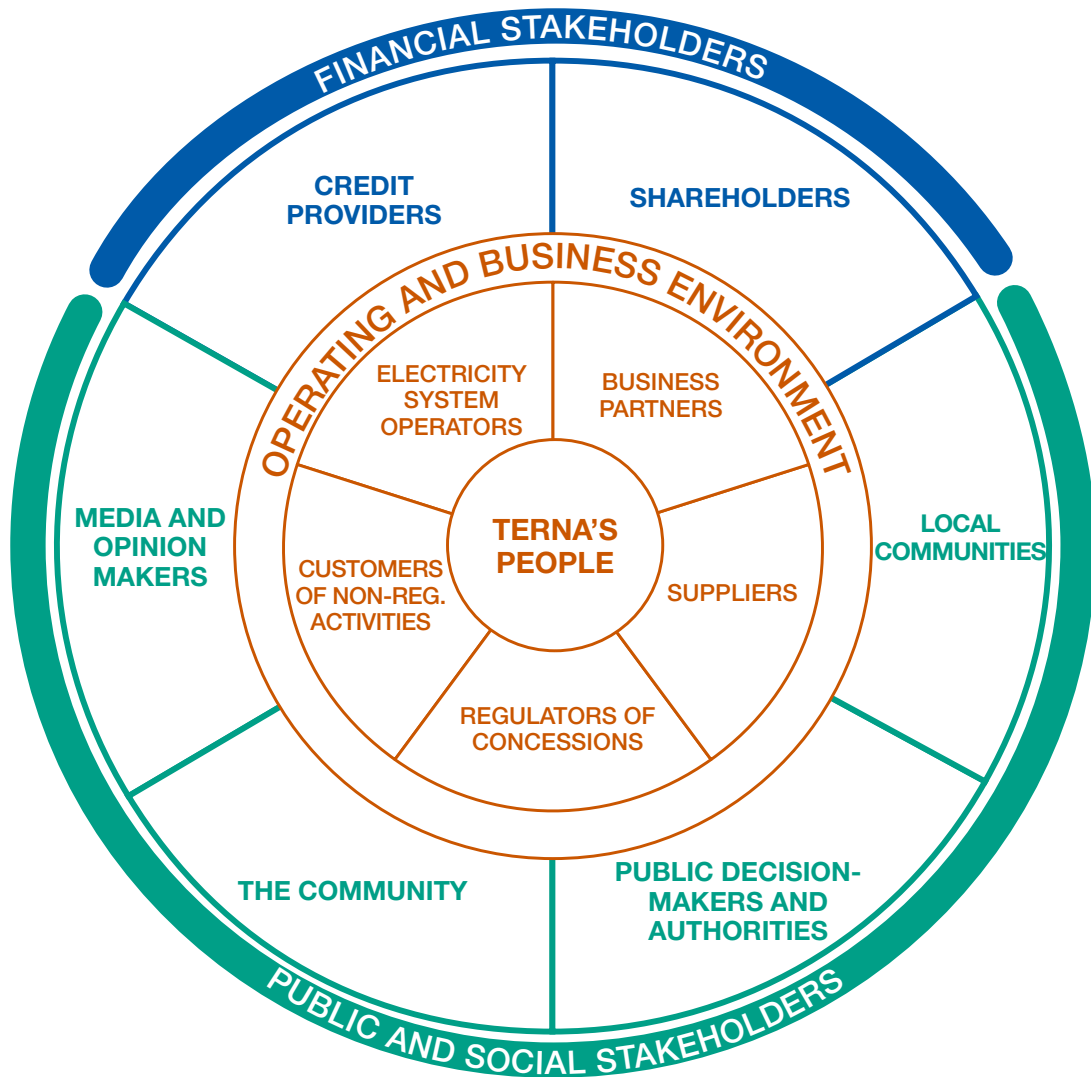
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Stakeholder map 



For each sphere of activity defined in the map, the following table shows the individual stakeholder categories including the related engagement methods and tools adopted by Terna, and a brief overview of activities in 2022.

**OPERATIONAL AND BUSINESS SPHERE**

**PEOPLE WITHIN THE ORGANISATION** *Employees, Collaborators, The training system, Governance bodies, Labour unions, Workers' representatives.*

**RELATIONAL AND MONITORING PROCEDURES**

Direct, sample-based surveys, Online surveys, Internal communication initiatives, Focus groups on specific topics, Consultations, discussions and negotiations with labour unions.

**ACTIVITIES IN 2022**

See the section on "Human capital" on page 203

**ELECTRICITY SYSTEM OPERATORS** *Producers, Distributors, Wholesalers, Other owners of the NTG, Applicants for connection to the NTG, Other network operators (TSOs), Associations representing industry operators, Other organisations in the electricity supply chain, Interruptible customers.*

**RELATIONAL AND MONITORING PROCEDURES**

Grid Code Consultation Committee. Relations envisaged and regulated by the Grid Code. *Operator consultation* box on Terna's website. My Terna portal for dispatching users, including a dedicated call centre. The *GAUDI* portal for integrated management of plants and production units. Specific meetings and participation in organised working groups. NTG owners' portal for other NTG owners. Distributors' portal, Settlement portal.

**ACTIVITIES IN 2022**

During the year, Terna met with the Consultation Committee - a technical body in which the various categories of electricity service users are represented, with the participation of ARERA and the Ministry for the Environment and Energy Security (formerly the Ministry for Ecological Transition) as observers - to share the context and the elements underlying the 2023 Development Plan.

Terna also organised several discussion initiatives with operators to share knowledge about the specific context and to illustrate the changes taking place in the regulatory framework and expected developments. These included:

- seminar on the state of progress of the implementation of the European balancing guidelines and the actions taken to optimise dispatching and cut costs;
- webinar on the technical connection requirements for electrochemical storage plants set out in the new Annex A.79 of the Grid Code;
- webinar for operators on changes to the Grid Code relating to the rules for participation in the Dispatching Services Market, technical requirements for frequency regulation services and coordination rules between the Dispatching Services Market and the European energy exchange balancing platform (aFRR - Automatic Frequency Restoration Reserve platform) developed as part of the PICASSO project;
- workshop on the state of progress of connection applications for RES plants, with a focus on offshore initiatives;
- webinar on the 2022 Resilience Plan

**SUPPLIERS** *Core, non-core and potential suppliers<sup>85</sup>. Trade associations.*

**RELATIONAL AND MONITORING PROCEDURES**

Dedicated *Procurement and Supplier Qualification* portals are described on page 244. Discussion round tables with associations. Post-tender feedback.

**ACTIVITIES IN 2022**

See the section on "Supply chain sustainability" on page 196.

**REGULATORS OF CONCESSION ACTIVITIES** *ARERA, Ministry for Business and Made in Italy, European regulators*

**RELATIONAL AND MONITORING PROCEDURES**

Formal reports and communications within regulated processes. Transmission of information and assessments in response to specific requests or at Terna's initiative.

**ACTIVITIES IN 2022**

Ongoing activities with ARERA's offices and Board, and with the Ministry for Business and Made in Italy (formerly the Ministry for Economic Development). Regarding the investigations initiated by ARERA that are of potential interest to Terna, it should be noted that, based on the information in the Company's possession, no proceedings are in progress.

**BUSINESS PARTNERS** *Subsidiary companies. Business partners/developers. Interconnector line customers. Public safety organisations. Applied research institutes*

**RELATIONAL AND MONITORING PROCEDURES**

Partnership agreements. Protocols. Meetings for specific projects. Structured partnerships.

**ACTIVITIES IN 2022**

Over the years, Terna has signed partnership agreements with institutional bodies (for example, Guardia di Finanza - Finance Police; Fire Brigade, etc.), comprising forms of collaboration that support the Group's activities. In 2022, as part of its collaboration with the Guardia di Finanza, Terna implemented the new portal "Guardia di Finanza Terna construction sites: Contractors and Subcontractors" with exclusive access for members of the police force. Via a computerised information sharing system that guarantees the confidentiality of the data processed, the portal enables the Guardia di Finanza to consult data relating to electricity works sites across Italy at any time, in implementation of the provisions of the memorandum of understanding signed with the Finance Police regarding the security of the national electricity system.

**CUSTOMERS (Non-regulated Activities)** *Non-regulated business customers. Potential customers*

**RELATIONAL AND MONITORING PROCEDURES**

Dedicated meetings.

**ACTIVITIES IN 2022**

See the section on "Non-regulated Activities: Energy solutions" on page 130.

<sup>85</sup> Core suppliers are suppliers entrusted with contracts for works, supplies and related services, connected with and/or instrumental to the performance of activities attributable to the electricity sector in which Terna operates under the Concession. Non-core suppliers are suppliers who are entrusted with contracts for works, supplies, and services that are neither connected with nor instrumental to Terna's core activities. Potential suppliers are suppliers of interest to the Company, as well as those interested in working for Terna.

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**FINANCIAL SPHERE****SHAREHOLDERS** *Controlling shareholders. Institutional equity investors. Retail shareholders. Financial analysts. Proxy advisors. SRI investors. Analysts. ESG rating agencies.***RELATIONAL AND MONITORING PROCEDURES**

Road shows. Conference calls, presentations, dedicated meetings. "Investors" section of Terna's website. Telephone numbers for institutional investors and the generality of shareholders; dedicated e-mail addresses. Sustainability ratings

**ACTIVITIES IN 2022**

Three e-mail enquiries were received from non-institutional shareholders (5 in 2021 and 6 in 2020), which concerned information on the Company's business and dividend payments.

At the Shareholders' Meeting held on 29 April 2022, 1,772 shareholders were duly represented, solely through the Appointed Representative<sup>66</sup>, accounting for 1,402,895,486 ordinary shares, or 69.8% of the share capital.**LENDERS** *Banks. Rating agencies. Debt investors. International financial institutions. National and international public lenders***RELATIONAL AND MONITORING PROCEDURES**

Regular meetings. Specific reports. Ratings

**ACTIVITIES IN 2022**

During 2022, the Company met the main rating agencies at management meetings. The agencies that currently assess Terna's creditworthiness are S&amp;P's, Moody's and Scope. Finally, several conference calls were organised to explain the Group's financial strategies, to carry out the reconciliation and reclassification of the financial statements in accordance with the agencies' criteria, and to provide details of the financial rationale that the rating agencies take into account when assigning a rating.

**PUBLIC AND SOCIAL SPHERE****LOCAL COMMUNITIES** *Directors, Local politicians and opinion makers, Associations representing local interests, Other local authorities, Infrastructure sector operators, Territorial committees, Landowners affected by grid development, Owners of buildings and land in the vicinity of existing lines, Other citizens affected by grid development, Other citizens affected by the passage of existing lines, Media, Local suppliers and sub-suppliers***RELATIONAL AND MONITORING PROCEDURES**

Grid planning consultation process (see page 246), Formal reports and communications within regulated processes, Public engagement initiatives, such as "Terna Incontra" meetings (see page 246)

**ACTIVITIES IN 2022**

See the section on "Dialogue with local communities" on page 244.

**PUBLIC DECISION MAKERS AND AUTHORITIES** *Ministries with relevant competences regarding the electricity sector, Other government bodies, Regions and their bodies, Parliament and Commissions, EU institutions, Other regulatory and supervisory institutions, The judiciary, Strike Guarantee Commission, National institutions of other countries of interest, International institutions, Regular meetings, Formal reports and communications within regulated processes.***RELATIONAL AND MONITORING PROCEDURES**

Since 2016, Terna has been on the Transparency Register, established by the Ministry for Economic Development to guarantee transparency and the traceability of meetings with the Ministry's top officials.

**ACTIVITIES IN 2022**

Details of the activities in 2022 may be found in the "Annexes" on page 317.

**MEDIA AND OPINION MAKERS** *National and international media, National and international opinion groups, Web users, Universities, Other scientific and research organisations, National and international study and steering groups.***RELATIONAL AND MONITORING PROCEDURES**

Presentation of the revised 2021-2025 Industrial Plan, Organisation of seminars, Workshops, Targeted surveys, Collaboration and partnership initiatives; participation in organised working groups, E-mail boxes and profiles on social networks

**ACTIVITIES IN 2022**

See the sections on "Stakeholder dialogue and communication channels" on page 242 and "Communication activities" on page 252.

**THE WIDER COMMUNITY** *Current and future end users of the electricity service***RELATIONAL AND MONITORING PROCEDURES**Website at [www.terna.it](http://www.terna.it), Social networks, Dedicated e-mail addresses ([info@terna.it](mailto:info@terna.it)), Periodic sample surveys of the population**ACTIVITIES IN 2022**

See the section on "Community initiatives" on page 249.

**LITIGATION**

The main commitments and risks not disclosed in the financial statements at and for the year ended 31 December 2022, relating to the Parent Company, Terna, and its subsidiary, Terna Rete Italia S.p.A. are described in paragraph "E - Commitments and risks" in the consolidated financial statements.

Terna's relationships with stakeholders, especially those with industry operators, are also nurtured and strengthened via our active participation in the work of the main national and international industry organisations we are associated with, in which we often playing a leading role. Our aim is to make concrete contributions to working groups on key electricity issues, share best practices and, more generally, grasp further opportunities to increase our relationship and intellectual capital.

<sup>66</sup> It should be noted that, as a result of the regulatory provisions issued in relation to this emergency and in particular Law Decree no. 18 of 17 March 2020 (the so-called the Heal Italy Decree), the Company has decided to take up the option provided for in art. 106, paragraph 4, of the aforementioned Heal Italy Decree, providing that participation in the Shareholders' Meeting by those entitled to participate may take place exclusively through the representative appointed by the Company pursuant to art. 135-undecies of Legislative Decree no. 58 of 24 February 1998 (the "Consolidated Law on Finance" or TUF).

### Active participation in international associations



**ENTSO-E (European Network of Transmission System Operators for Energy)** is a European association of 39 active member companies from 35 countries. In April 2022, the Ukrainian TSO, Ukrenergo, joined ENTSO-E as an observer member, while on 13 December 2022, a new observer membership agreement was entered into with the Turkish TSO, TEİAŞ. ENTSO-E is involved in the process of integrating national electricity markets, coordinating the secure operation of interconnected electricity systems and developing electricity transmission grids, in implementation of the relative EU legislation (Third Energy Package, CEP-Clean Energy Package and Fit for 55).

ENTSO-E's main objectives are to: draw up European network codes, guarantee the coordinated development of the electricity grid at European level by drawing up the European electricity grid development plan (the Ten-year Network Development Plan, or TYNDP) and the related benchmark scenarios, and draw up the Research, Development and Innovation Plan at European level.

ENTSO-E's activities focus on four courses of action (security of supply, functioning of the energy market, promotion of energy saving, and promotion of the interconnection of energy networks), which generate new tasks for ENTSO-E (implementation of the Regional Coordination Centres - RCC, enhanced cooperation with DSOs, digitalisation of networks and development of demand response). These activities will be developed in line with the new climate policies previously set out by the European Commission with the launch of the European Green Deal, a roadmap that seeks to make the EU the first climate-neutral continent by 2050. This has been further strengthened with the Fit for 55 climate package, which proposes legislative guidelines to achieve the Green Deal targets by 2030 (in particular, the reduction of greenhouse gas emissions by 55% compared to 1990 levels, in order to achieve carbon neutrality by 2050). Terna is a member of the board of the association.

**RGI (Renewables Grid Initiative)** An association consisting of 13 European TSOs and 13 environmental NGOs which aims to promote the integration of renewable energy sources through the development of electricity grids. RGI is committed to promoting strategic planning and participating in the construction of new power lines, via a meeting platform involving environmental NGOs and European TSOs.

**CIGRE (Conseil International des Grands Réseaux Electriques)** An international non-profit association that conducts research regarding high-voltage grids. It has over 90 member countries, represented by 60 national committees, and Terna is currently the Chair and Vice Chair of the Italian Committee.

**GO15 (Reliable and Sustainable Power Grids)** An international association bringing together the 17 leading grid operators worldwide to share best practices in the management of electricity transmission grids.

In 2022, Terna's CEO, Stefano Donnarumma, was Chairman of the association. Terna was also on the Steering Board and the Governing Board and co-chaired the Strategic Working Groups on *Pathways to a Low Emission Power Grid* (SWG1) and "Resilience, infrastructure development and interconnections" (SWG2).

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**Med-TSO (Mediterranean Transmission System Operators)** This association brings together the TSOs from 20 Mediterranean countries, with the aim of promoting the standardisation of development plans and the coordinated management of grids. The association also works to facilitate the creation of a legislative and regulatory framework designed to drive the development of interconnection projects and promote the exchange of electricity between electricity systems in the Mediterranean area. Terna hosts the association's registered office and operational headquarters in Rome and appoints its Secretary General.

**RES4Africa Foundation (Renewable Energy Solutions for Africa)** This non-profit foundation was established on 7 June 2019, following the transformation of the association with the same name. The association aims to promote the use of renewable energy and the dissemination of energy efficiency measures, as well as supporting the creation of a favourable environment for renewable energy investment in countries in the southern and eastern Mediterranean area and in sub-Saharan Africa. The association has its headquarters in Rome.

**WEC Italia (World Energy Council - Italian committee)** The Italian national committee of the WEC, an international organisation that brings together operators from over 90 countries, with the aim of promoting a sustainable energy system worldwide. Terna is a member of the Managing Board.



### Main international initiatives during the year

The main initiatives developed by Terna in 2022 include the following:

- Continuation of the joint venture with the TSOs, TenneT (Netherlands/Germany) and Swissgrid (Switzerland), which was set up to manage **Equigy**, a new platform based on blockchain technology that aims to facilitate the participation of distributed demand in the electricity grid balancing process. The main roles in this **Energy of Things** are to be played by domestic or industrial electrical devices such as, for example, home air conditioning systems, photovoltaic plants with batteries and e-cars, which will be interconnected with each other and capable of regulating the energy exchanged with the grid through an innovative digital platform. This will provide services to support the grid operated by Terna and thus the ecological transition. 
- Participation in **TERRE** (the *Trans European Replacement Reserves Exchange*). The platform facilitates the integration of the balancing markets of EU countries, guaranteeing the cost-efficient exchange of reserves for the benefit of the electricity system's security. Italy is connected to Region 1, which also includes France, Switzerland, Spain and Portugal. As well as Italy, the Czech Republic, the UK, Poland, Switzerland, France, Spain and Portugal are also taking part in the project.
- The research initiative with other European TSOs to assess the various grid planning criteria adopted in Europe to facilitate the **integration of RES** and the electrification of production sectors currently using fossil fuels has been completed.
- Joint actions were undertaken by TSOs to encourage and direct the European industry towards the challenges of the energy transition, with reference to analysis of strategic supply chain dependencies relating to TSOs' ecological transition needs and the development of a common platform for the exchange of data and best practices regarding the different CSR approaches to the standardisation of life-cycle cost assessment methodologies..

## International relations

With a view to building and better managing relations with European institutions, since 1 July 2018 Terna has had a Brussels office located in the European Quarter.

The aim is to establish ongoing dialogue with the European Parliament, the Commission and the Permanent Representation in order to take advantage of Terna's experience and expertise.

The main projects that Terna followed during the year include those identified as forming part of the European Green Deal, especially the Fit for 55 package, and those relating to European programmes providing financing under the next financial framework 2021-2027.

Priority projects of most interest include the Projects of Common Interest list, amendment of the Renewable Energy and Energy Efficiency Directives, the Gas and Hydrogen Package, Sustainable Finance, sectoral integration, and revision of the Guidelines for State Aid regarding the Environment and Energy. Programmes of interest include: the Connecting Europe Facility, Next Generation EU, the Innovation Fund, Horizon Europe and Digital Europe, and the European Regional Development Fund and the Cohesion Fund.



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### *Anima per il sociale nei valori dell'impresa*

A non-profit association that brings together managers and companies who share the desire to spread an entrepreneurial culture in their local areas, combining profit with the creation of wellbeing for the community. Terna has been a member of the association since 2010.

### *Ecosystems Foundation*

Focused on improving the environmental and social quality of the economy and local areas, this organisation specialises in strategies, programmes, actions and tools for sustainable development, and is a key player in GPP (green public procurement) and green procurement. Terna has been a member of the organisation since 2021.

### *Sustainable Development Foundation*

An organisation whose primary activity is investigating sustainable development issues – from a cultural and technical point of view – via research, seminars and meetings. Terna has been a member of the organisation since 2011.

### *GEO – The Green Economy Observatory*

The Observatory set up by IEFE - Bocconi University which, via research and study, aims to explore key topics for debate in relation to the green economy through dialogue, discussion and collaboration with institutions and businesses.

### *Global Compact*

Terna's membership of the Global Compact involves a presence at both international and local level. Terna has had a place on the Italian network's Steering Committee since 2011 and is a founding member of the Global Compact Network Italy, which was established in 2013.

### *Kyoto Club*

A non-profit organisation made up of companies, bodies, associations and local government authorities that are committed to achieving the targets for reducing greenhouse gas emissions set by the Kyoto Protocol and to promoting awareness-raising, information and training initiatives in the fields of energy efficiency, use of renewables, and sustainable mobility.

### *Parks – Liberi e Uguali*

A non-profit association established in April 2010 with the aim of helping member companies to understand and realise the full business potential of developing diversity-friendly strategies and best practices. Terna has been a member of the organisation since 2022.

### *Sustainability Makers*

A rebranding of the CSR Manager Network, this is a key association for professionals who deal with sustainability and corporate social responsibility issues, including company managers, consultants and researchers.

### *Transparency International Italy*

The Italian branch of the international organisation whose aim is to combat corruption (also see page 190), which promotes the **Business Integrity Forum (BIF)**, an initiative for large Italian companies aimed at increasing the transparency, integrity and accountability of Italy's business sector via their collaboration.

### *Valore D*

This is the first business association in Italy to commit to gender balance and an inclusive culture in organisations. Terna has been a member of the organisation since 2021.

## Participation in associations that deal with sustainability issues

&lt; 2-28

## FN2 Economic value created and distributed to stakeholders

The Terna Group confirms its commitment to pursuing a sustainable business model aimed at **creating value for all our stakeholders**. The model's results are effectively summarised in the table below showing the **economic value created and distributed**. The following figures have been computed taking into account the requirements established by Standard GRI 201-1 for reclassification of the Group's consolidated income statement.

In 2022, the total **economic value created** by the Group amounted to **€3,021.3 million** (€2,653.0 million in 2021).

The **economic value distributed** amounted to **€2,775.18 million** and was distributed to the following stakeholder categories: suppliers, employees, lenders, shareholders, the public administration and local communities.

### 201-1 > Economic value directly created and distributed <sup>(1)</sup>

(€m)

	2022 <sup>(2)</sup>	2021 <sup>(2)</sup>	2020 <sup>(2)</sup>	CHANGE 2022/ 2021	% CHANGE 2022/2021
<b>1 - ECONOMIC VALUE CREATED (A)</b>	<b>3,021.29</b>	<b>2,653.02</b>	<b>2,528.92</b>	<b>368.27</b>	<b>14</b>
B - Operating costs relating to suppliers	1,269.59	1,102.23	1,013.79	167.36	15
C - Employees	348.40	295.31	287.28	53.09	18
D - Credit providers	113.70	89.81	94.43	23.90	27
E - Shareholders <sup>(3)</sup>	631.94	585.11	541.69	46.83	8
F - The Government	409.37	359.78	338.58	49.59	14
G - Investment in local communities <sup>(4)</sup>	2.18	2.31	1.69	(0.13)	(6)
<b>2 - ECONOMIC VALUE DISTRIBUTED TO STAKEHOLDERS (B+C+D+E+F+G)</b>	<b>2,775.18</b>	<b>2,434.55</b>	<b>2,277.45</b>	<b>340.63</b>	<b>14</b>
<b>3 - PROFIT/(LOSS) FOR THE YEAR FROM ASSETS HELD FOR SALE</b>	<b>(20.35)</b>	<b>(12.84)</b>	<b>2.09</b>	<b>(7.50)</b>	<b>58</b>
<b>4 - ECONOMIC VALUE RETAINED (1-2+3) <sup>(5)</sup></b>	<b>225.76</b>	<b>205.63</b>	<b>253.57</b>	<b>20.13</b>	<b>10</b>

<sup>(1)</sup> Amounts relating to the creation and distribution of economic value have been taken from the consolidated income statement prepared in accordance with IFRS/IAS. The Terna Group has used IFRS/IAS since 2005.

<sup>(2)</sup> Given that the requirements of IFRS 5 have been met, the total results for 2022, 2021 and 2020 attributable to the South American subsidiaries included in the planned sale of assets have been classified in the item "Profit/(Loss) from assets held for sale" in economic value retained.

<sup>(3)</sup> Payments to the providers of risk capital in 2022 correspond with the interim dividend for 2022 (€213.3 million) payable from 23 November 2022 to the holders of each ordinary share outstanding (net of treasury shares held at the record date of 22 November 2022, the amount for which was taken to "retained earnings") and the final dividend to be proposed to the AGM, as decided by the meeting of Terna S.p.A.'s Board of Directors held on 22 March 2023 (€418.7 million).

<sup>(4)</sup> Donations and sponsorships are considered. The figures for 2021 and 2020 have been restated to also include the value of sponsorships in item G - Investment in local communities. Details of "Investment in local communities" are provided on page 249.

<sup>(5)</sup> Corresponds with consolidated net profit for the year (including the share attributable to non-controlling interests) after payments to the providers of risk capital.

There was a 14% increase in the economic value created by the Terna Group in 2022 compared with 2021. This was due primarily to the impact on revenue of the greater incentives offered by output-based incentive mechanisms and an increase in the regulated asset base, after the decrease reflecting the reduction in the WACC recognised for 2022.

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Compared with 2021, economic value distributed is up 14%. This mainly reflects increases in payments to credit providers (up 27%), in the amount paid to employees (up 18%) and in operating costs (up 15%), broadly relating to the costs incurred by the Brugg Group, the Tamini Group and the contribution from the LT Group (acquired in October 2021). The increase also reflects the greater volume of activity and new initiatives carried out by the Group.

Economic value retained also includes the net result for the year from discontinued operations and assets held for sale, which is down €7,5 million compared with the previous year. This essentially reflects increased losses and the adjustment to the value of discontinued operations and net assets held for sale, partially offset by the gain resulting from the first two transaction closings for the sale to CDPQ of the Latin American assets, which took place in November and December 2022. Further details are provided in the relevant note to the consolidated financial statements.

**Distribution of value created**

(%)

	2022
<b>Operating costs relating to suppliers</b>	<b>42.0</b>
Employees	11.5
Capital providers	3.8
Shareholders	20.9
The Government	13.5
Investment in local communities	0.1
Retained by the entity	7.5

It should also be noted that, in 2022, Terna received the sum of €15,574,648 from the Ministry for Economic Development as an advance on government grants for projects to be funded under the National Operational Programme (NOP) and the sum of €4,769,078 from public organisations in the form of grants to fund the re-routing of infrastructure.

**Grants**

(€)

< 201-4

	2022	2021	2020
<b>Grants related to assets from public organisations (*)</b>	<b>4,769,078</b>	<b>13,261,517</b>	<b>4,386,484</b>
For projects funded by the Ministry for Economic Development (*)	15,574,648	22,902,683	-

(\*) These grants are recognised as a direct reduction in the carrying amount of assets.

## 2-29 > Stakeholder dialogue and communication channels

As a first step towards boosting dialogue with all stakeholders, but also to provide information on the electricity system and to develop an energy culture, Terna has put in place several **dialogue and communication channels**. These are diversified by type of audience, language and purpose (e.g., requests for information, suggestions, observations and complaints).

The easiest way to contact Terna is by using one of the various e-mail addresses provided on the website at [www.terna.it](http://www.terna.it).

2-3 > E-mails from employees are sent via the intranet<sup>87</sup>. A list of **Contacts** is provided in the menu on the homepage of the website, which provides guidance to anyone wanting to communicate with the Company. This page also lists the certified e-mail addresses to use for communications that must meet this requirement.

The website homepage also provides access to Terna's **social channels**, which, each in its own characteristic and specific way, increasingly offer an opportunity for integrated interaction with stakeholders, ranging from authorities to local communities, from analysts to investors, from Terna professionals to the world of universities and research, and from start-ups to jobseekers. In 2022, the community that follows Terna on its main profiles (Facebook, Twitter, LinkedIn, Instagram) grew by 20%. Content views (up 82%) and user engagement (up 87%) via published posts also increased compared to 2021. Of note is the 2% growth in engagement on Instagram, together with an increasing openness towards the female audience.

2022 also saw the arrival of Terna's new profile on TikTok, the leading entertainment platform producing content aimed at Generation Z, which was set up at the inauguration of the Tyrrhenian Lab project in November. This is a broad target audience for the Company's strategy that sees TikTok as a key channel for attracting and engaging the younger generation, such as students and graduates passionate about STEM (Science, Technologies, Engineering and Mathematics) subjects, including educational and information content linked to the Tyrrhenian Lab's master's degree programme, which focuses on innovation and energy transition.



In addition to TikTok, Terna has also been present since 2022 on the main audio platforms, such as Spotify and Spreaker, with its podcasts Nora, the future of energy is our job, the nine-part podcast that tells energy enthusiasts about the Tyrrhenian Lab project, and *Sala dati*, about what goes on behind the scenes of electricity consumption.

For current and potential electricity operators and suppliers, Terna has **seven separate portals** that may be accessed from the homepage of the Company's website, as well as a dedicated call centre, which may be reached via a toll-free number 800-999333).

<sup>87</sup> For example: [azionisti.retail@terna.it](mailto:azionisti.retail@terna.it); [investor.relations@terna.it](mailto:investor.relations@terna.it); [sostenibilita@terna.it](mailto:sostenibilita@terna.it); [ufficio.stampa@terna.it](mailto:ufficio.stampa@terna.it); etc.

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## PORTALS FOR ELECTRICITY SERVICE OPERATORS



### MyTerna portal

My Terna is the portal for electricity operators, consisting of an advanced platform developed with a view to optimising commercial relations through the introduction of a **Customer Relationship Management (CRM)** system providing a single, integrated platform for interacting with Terna.

Among other things, the CRM system allows users to: manage and update their data; request connections to the NTG; manage contracts; contact Terna and view information.



### GAUDI portal

The GAUDI portal, which may be accessed by producers, distributors, dispatching users, ARERA and Italy's Energy Services Company (GSE), was created by Terna<sup>88</sup> to manage the Consolidated Power Generation Plant Register and the relative production units at national level, and to streamline communications between the various actors in the power generation sector.



Via a unique CENSIMP code<sup>89</sup>, the platform records all the generation plants and the individual units that comprise them, of any size (from the databases of non-significant UPN6 and significant RUP production units) or source (conventional, renewable, cogeneration and storage systems), covering a total of **over 1,238,936 units** at 31 December 2022.

#### Data recorded on the GAUDI platform at 31 December 2022

SOURCE	NO. OF PLANTS	INSTALLED POWER	POWER INPUT
Solar	1,221,045	25,048 MW	=
Hydroelectric (including pure pumping)	4,791	26,054 MW	=
Wind	5,985	11,848 MW	=
Thermoelectric	7,012	=	57,792 MW
Other	103	971 MW	

Via a dedicated control panel, the portal enables the status of each plant to be monitored - from authorisation to connection, and the market qualification process – as well as all the changes to the plant and to commercial aspects that occur during a plant's operation, with a view to ensuring full interoperability with distributors and the GSE.

### NTG owners' portal

This portal contains all documents of interest to owners of portions of the National Transmission Grid with whom Terna, as transmission system operator, has relations.

### Settlement portal

This portal has a public area, in which general information used to set fees is shown, and private sections that may be accessed with the credentials used for the MyTerna portal, which contain information on the guarantees for supply-side and demand-side dispatching contracts.

<sup>88</sup> In compliance with Resolution ARG/elt 124/10.

<sup>89</sup> Already established in a special database by Resolution ARG/elt 205/08.

### Distributors' portal

On this portal, Terna publishes and updates the list of distributors, including their identification codes and records of any changes made to these companies. Since 1 January 2019, Terna has published records relating to internal user networks, and from 1 January 2022, also records relating to other closed distribution systems.

## Suppliers' portals

### Procurement portal

The initial encounter between Terna and suppliers (potential or otherwise) takes place on the **Procurement** portal, where suppliers may find information about business opportunities and the related calls for tenders and participate in online tenders.

In 2022, approximately **1,014** requests for online assistance with the Procurement portal were received from suppliers, all of which were dealt with within the deadlines set out in the Company's procedures. For more information on the supply chain, reference should be made to the relevant section on page 196.

Moreover, with a view to expanding the supplier portfolio, **procurement marketing** is constantly carried out through market scouting, benchmarking, and monitoring of suppliers' performance, which involves regular meetings with Italian and overseas suppliers.

### Supplier qualification portal

This portal is dedicated to all business operators who wish to complete the qualification procedure to be included in the list of approved suppliers.

In 2022, approximately **1,600** requests for assistance were received via the Supplier Qualification mailbox, which were dealt with within the deadlines set out in the Company's procedures. More information on the qualification procedure may be found in the Suppliers section of the website [www.terna.it](http://www.terna.it), which is also explained in this report on page 200, in the section on the supply chain.

## Other portals

Four other portals may be accessed from the homepage of [www.terna.it](http://www.terna.it): *Transparent and open construction sites* (see page 191), *Whistleblowing* (see page 189); *Certification* and *G-STAT*, the latter with access restricted to people working on electricity sector statistics.

DNF

## Dialogue with local communities

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In line with the guidelines in the 2021-2025 Industrial Plan, and with the resulting need to invest in the electricity infrastructure included in its Development Plan, the Company makes a major effort to engage with the local communities whose areas are directly impacted.

It is essential to ensure that these stakeholders are correctly informed about the reasons for identifying the work to be carried out and the systemic benefits that local communities will gain as a result. The criterion that guides Terna's consultation decisions is the amount of investment envisaged for the construction of each individual work in the Plan, and the complexity of the project and the local area concerned: more than 90% of investment in electricity infrastructure relates to engagement with local communities. Minor projects, although important in numerical terms, represent less than 10% of the total value of investment. Currently, **96% of investment in electricity infrastructure relates to engagement with local communities.**

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## FOCUS

### The Tyrrhenian Lab is up and running: excellence training to create jobs in southern Italy



In May 2022, Terna signed a multilateral partnership agreement with the universities of Cagliari, Palermo and Salerno, which established the **Tyrrhenian Lab advanced training centre**.

This project, which combines highly specialised training objectives with employment benefits in the areas where the **Tyrrhenian Link** submarine cable will reach land, envisages a five-year investment of approximately €100 million to provide recent STEM graduates from all over Italy with the opportunity to take a 12-month, second-level master's degree course, featuring a strong mix of classroom learning and field experience with Terna technicians, so that they may acquire the necessary skills to work at the Company and help to bring about Italy's digital transformation and energy transition (see also page 12).

Every year, 15 students will be selected for each university, who, once they have enrolled in the master's course, will receive a **letter of commitment from Terna to hire them on a permanent contract** at the relevant local office, and a **€19,000 grant**, to be fully covered - together with the cost of attending the master's course - by Terna.

The Tyrrhenian Lab further strengthens Terna's commitment to the local communities directly affected by the investments envisaged in the Company's Development Plan. This concrete initiative, aimed at young people, focuses on the skills they have acquired during their university studies and gives them the opportunity to develop them, with a view to a guaranteeing them employment in their hometowns.

In July, a call for applications was launched for the first Tyrrhenian Lab **second-level master's degree course on Digitalisation of the electricity system for the energy transition**. 170 young university graduates in technical and scientific subjects applied, and the course began in November.

Among those who passed the selections, excellent results were achieved by female students. Prior to the selection, women accounted for around one fifth (20.5%) of the applications received, and of the 45 people chosen, as many as one third were female.

The average age of the selected students is 29, and most of them have a master's degree in energy systems engineering (24%), followed by graduates in electronic engineering (13%), electrical engineering (11%) and management engineering (11%). The selected students include some PhDs.

Terna voluntarily consults on the need for grid development with local authorities and listens to public opinion in order to identify the best possible location for new projects, based on the classification of land according to so-called ERPA criteria: (Exclusion, Repulsion, Problems and Attraction), and with the support of GIS (Geographic Information System) technology, which includes all information relating to different types of land use and the related protection constraints (regional, naturalistic, cultural, landscape, etc.).

Consultation activities, namely engagement with and listening to local communities, regard all the local authorities involved in the construction of the new electricity infrastructure, and initiatives aimed directly at citizens (for more details see the section on "Consultation activities" on page 246).

In 2022, Terna held a total of 483 meetings with local authorities, involving around 286 bodies, including authorising bodies, local authorities, civil engineering entities, ministries, regional authorities and other economic operators.

413-1 > Meetings with local authorities – 2022

AREA	MEETINGS	BODIES INVOLVED
North-west	70	92
North-east	166	79
Centre-South Adriatic Link	151	53
Centre-South Tyrrhenian Link	96	62
<b>Total</b>	<b>483</b>	<b>286</b>

## Consultation activities

The Grid Development Plan, which is prepared every two years and integrated with the *Strategic Environmental Assessment (SEA)*, provides for an initial public consultation phase via online publication on the websites of the Ministry for the Environment and Energy Security (formerly the Ministry for the Environment, Land and Sea - MATTM) and Terna of documents such as the Preliminary Environmental and Monitoring Report. During this phase, citizens can send in their comments within 60 to 90 days of publication.

In order to promote full awareness of planned investments in new electricity infrastructure, Terna organises institutional meetings at which local authorities can express their opinions. For example, the Development Plan can be shared with the region and the municipalities directly concerned. Since 2018, this listening approach has also included the participatory *Terna incontra* meetings. After approval of the Plan, dialogue activities begin, which last between one and three years.

During this phase, direct dialogue with the local community takes place via meetings - which are more numerous when the project is complex or concerns and involves more than one municipality - aimed at explaining the importance of the works envisaged in the Plan and collaborating with the authorities, citizens and, more generally, all the stakeholders directly concerned, in order to identify shared solutions, broaden consensus and encourage acceptance of the project. If possible, Terna integrates all the recommendations and requests emerging from the meetings into the project solutions to be submitted in the single consent application; Terna provides ample information on any such integration at specific public meetings prior to the start of the consent process.

At the end of the consultation phase, the shared project is developed into the final design that will be submitted to the competent authorities for the start of the consent process. At the same, any citizen who wishes to do may peruse the project filed at the municipality. If the authorities request any changes to the project during the consent phase, Terna plans further meetings with the local community to explain the changes and to assess the best way to implement them with the local authorities.

Since 2018, together with dialogue with local authorities, Terna has organised *Terna incontra* meetings. This additional form of interaction is aimed at achieving participatory planning through disintermediated engagement of citizens directly affected by projects included in the Development Plan in their local areas.



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*Terna incontra* meetings can be organised at any time, from the design and definition phase of the project through the consent and construction site start-up phases. In the latter case, Terna consults with the committees to agree with the local authorities on the best possible arrangements for any road diversions, dedicated routes for construction site vehicles, construction site working hours, etc. Organisation of the *Terna incontra* meetings depends on the cooperation of the local authorities and their willingness to provide an adequate public space (e.g. council meeting) to set up panels displaying key information on the project under discussion, including a multidisciplinary overview that includes safety and environmental aspects.

Unlike institutional meetings, which are often set up at short notice, *Terna incontra* meetings are planned more thoroughly as an average of around two weeks' organisation is needed, during which materials are prepared and appropriate local communication is carried out to encourage the participation of citizens, who are administered a short questionnaire to gather their opinions on the effectiveness and content of the meeting.

In 2022, Terna maintained the digital format that was created in 2020 in response to the restrictions imposed by the pandemic. This combines traditional paper communication (leaflets and pamphlets) with digital content on the website (web pages providing digital information for online meetings) and social media (the publication of social media kits among local stakeholders and sponsored campaigns). A total of 26 *Terna incontra* meetings were held in 2022, of which 10 were in-person and 16 online.



## EU22 > Landowners affected by NTG development

The construction of new power lines involves the use of between approximately 30 and 250 square metres of land - usually agricultural - for each pylon.

Although legally authorised to use an expropriation procedure<sup>90</sup> to obtain the use of land, Terna prefers solutions based on mutual consent, involving payment of one-off compensation for easement on private property. Attempts to reach a consensual solution do not always succeed, making enforcement measures necessary. In the case of construction of an electricity substation, which occupies a much larger area, Terna usually buys the necessary land.

### 2-25 > Power line easements

LANDOWNERS AFFECTED BY THE CONSTRUCTION OF NEW POWER LINES (NO.)	2022	2021 (*)	2020
Total easements <sup>(1)</sup>	1,541	1,579	1,131
- of which consensual	1,153	1,011	648
- of which enforced <sup>(2)</sup>	388	568	483

(\*) The number of easements rose in 2021, primarily due to the renovation of lines: 120 kV Cappuccini – Pietrafitta, 120 kV Preci - Cappuccini, 132 kV Candia - Camerata Picena, 132 kV Camerata Picena - San Lazzaro. The rise in the number of enforced easement orders in 2021 is primarily due to re-routing of the "SE Villavalle - SE Pietrafitta" power line, authorised by Interministerial Decree no. 239/EL-314/293/2019 of 12 September 2019.

<sup>(1)</sup> This figure shows the number of landowners affected by the construction of new power lines, and therefore involved in the application of easements during the year. **Landowner means the registered owner or group of owners of a parcel of land in each municipality; the number of landowners thus coincides with the number of easements.**

<sup>(2)</sup> This figure shows the number of cases in which it was impossible to find a consensual solution with the landowners affected by the construction of a new power line, and therefore enforcement proceedings were applied during the year.

The performance of easements is influenced by the type of work that Terna is required to carry out. Easements due to maintenance activity tend to be more equally distributed over the years, whilst major works require a far higher number of easements in the initial stages of the project, before a gradual reduction as the infrastructure is built.



<sup>90</sup> Law 1775 of 1933; Presidential Decree 327/2001 "Consolidated Law on Expropriations".

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## FOCUS

### Terna adopts the Envision Protocol on the sustainability of electricity infrastructure



Terna is the first company at international level to have drawn up guidelines in accordance with the application of the assessment criteria of the **international Envision Protocol** which measures and certifies the sustainability of its new infrastructure.

**Envision is the first rating system used to design and implement sustainable infrastructure.**

Conceived in 2012 by the Institute for Sustainable Infrastructure, in collaboration with Harvard University, the protocol is based on a framework of **64 sustainability and resilience** indicators **divided into five categories: quality of life, leadership, resource allocation, the natural world, climate and resilience**. The Envision guidelines developed and adopted by Terna were approved by the certification body ICMQ, which has an exclusive mandate to disseminate the protocol in Italy.

With the adoption of this protocol in line with its strategic objective of achieving a **just transition**, Terna will be able to verify the sustainability of its projects from an environmental, social and economic standpoint, and enhance the underlying processes of consultation, planning, implementation and maintenance through participatory dialogue with local communities.

The Envision Protocol will also enable improvement of the assessment and verification of the average lifespan and resilience of individual works, which will benefit the environment and the protection of local communities, and help to achieve an ever more efficient, safe and sustainable electricity grid.

## Community initiatives

FN2

Terna's contribution to Italy's civic growth goes beyond its role as a provider of strategic infrastructure for the country, as expressed through the Company's support for social, cultural and environmental initiatives.

Terna's corporate giving activities primarily consist of financial support for projects with social goals and - preferably - the Company's own organisation of initiatives to benefit the community. In addition, assets no longer of use in operations are donated free of charge, and Terna's employees provide support by spending their working hours on various initiatives, especially paid hours for voluntary work or hours spent on social projects organised directly by Terna, as was the case in 2022 with the fifth edition of the Next Energy programme.

All external requests are managed in line with the **Group's corporate giving policy** and assessed by a special committee comprising the heads of Corporate Affairs, External Relations, Corporate Affairs and Sustainability, People Organisation and Change and the head of the department responsible for "Relations with stakeholders and the academic world, events and sponsorship".

In any event, in line with Terna's Code of Ethics, donations are never made to political parties or their representatives.

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203-1 > Terna has adopted the **B4SI (Business for Societal Impact)**<sup>91</sup> model - developing its own customised version - for defining, classifying and accounting for companies' charitable initiatives. The model is geared towards accounting for what companies do via community initiatives that generate actual external benefits. Such initiatives may include cash contributions (donations, portions of sponsorships that generate an actual benefit and membership of associations that promote sustainability), in-kind contributions (the donation of assets at the end of their useful lives) or be in the form of working hours and operating expenses. In some cases, the valuation of contributions thus requires the use of non-accounting criteria and is therefore influenced by interpretative factors. However, it has the advantage of consistently linking the costs and benefits of social initiatives, thus enabling strategic planning and effective management of the related activities. Indeed, an important part of the model regards the measurement of benefits, with the aim of assessing the effective impact on end beneficiaries. In the most important projects, Terna appoints specialist external providers to assess the impact. The community initiatives implemented by Terna in 2022, classified in accordance with the B4SI model, are broken down in the following table.

### Community initiatives

€

	2022	2021	2020
Total value of contributions (excluding internal operating costs)	2,410,992	1,818,375	1,929,368
<b>By type of contribution</b>			
In cash	1,940,560	1,587,732	1,789,419
In kind (the donation of assets)	148,660	34,277	25,100
Working hours	321,772	196,367	114,849
Management costs	14,815	13,580	12,495
<b>By type of initiative (*)</b>			
Donations	421,035	274,200	525,780
Investment in the community	1,542,699	883,296	956,140
Commercial initiatives	440,259	660,879	447,448
<b>By purpose</b>			
Education and youth	786,100	606,758	914,013
Healthcare	108,000	56,000	398,880
Economic development	102,300	97,900	132,240
Environment	145,046	67,367	95,846
Art and culture	220,000	251,300	201,300
Social wellbeing	57,000	45,000	21,500
Emergency aid	725,573	312,461	25,000
Other	266,972	381,589	140,589

(\*) **Donations:** sporadic contributions, typically in response to requests for funds from charitable organisations deemed to be of merit.

**Investment in the community:** expenditure on initiatives coordinated/organised by the Company in accordance with a medium- to long-term programme, often in partnership with non-profit organisations.

**Commercial initiatives:** marketing initiatives with beneficial effects (only the portion of expenditure that constitutes a charitable contribution is accounted for).

Terna's corporate giving policy gives preference to initiatives projects relating to **SDGs 4 (Quality education), 7 (Affordable and clean energy), 9 (Industry, innovation and infrastructure) and 11 (Sustainable cities and communities)**.

In 2022, spending on initiatives aligned with priority SDGs 3, 4, 7, 9 and 11 accounted for 73.7% of Terna's expenditure on community initiatives.

For the purposes of full disclosure, it should also be noted that, in 2022, expenditure accounted for as donations and sponsorships amounted to €631,740 and €1,546,800.

Finally, support for environmental causes has not been included in the above table, as it is usually linked to the construction of new lines and has therefore been classified under environmental expenditure (see "Environmental costs" on page 286).

<sup>91</sup> Rebranding del *London Benchmarking Group* (LBG).

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## FOCUS

### The circular economy and solidarity: from old Company devices to supporting non-profit organisations and schools



Reusing goods is vital as it tallies with the fundamentally simple yet significant concept of the circular economy, in which the best kind of waste is the waste not produced.

All durable goods can potentially be reused, if the amount of wear and tear they have undergone has not impaired their functionality. Technically speaking, reuse is achieved via an intervention that restores full functionality. There is a substantial difference between reuse and recycling: a reused good has not yet become waste, whereas a recycled one already has. Therefore, reuse has upstream and downstream effects in a product's life cycle, by reducing the use of raw materials, energy consumption and emissions related to its production, and the amount of waste.

In line with this approach, Terna decided to extract value from 3,554 Company smartphones and 860 tablet computers, which were obsolete or malfunctioning and no longer had any economic value and were therefore about to be sent to landfill. The regeneration process was entrusted to RICompro - a startup specialised in restoring the functionality of mobile devices and subsequently selling them - which enabled Terna to make donations to two non-profit organisations, WeWorld and Lega del Filo d'Oro.


At the end of 2021, with a similar circularity initiative, Terna gave 630 PCs and more than 60 monitors to Reware, a cooperative and social enterprise specialised in services aimed at extending the life cycle of electronic and IT equipment. This led to the launch of the three-year "Terna Reuse: Community circular computers" project, regarding subsequent donations of at least 20% of renovated devices to schools and institutions.


These two concrete examples show how circular economy projects are can generate not just environmental but also economic and social benefits.


## New digital communication tools

Terna seeks to progressively consolidate relations with its internal and external stakeholders including via a **revised communication strategy**, aimed at improving the Group's corporate identity and strengthening its corporate reputation. < 2-29

In particular, the "new normal", arising from management responses to the Covid-19 pandemic, has helped to raise the profile of digital communication as a tool for accessing and sharing the Company's purpose.

A prime example is the consolidation of the **Terna4Green** digital platform, which was launched in 2021. This enables monitoring of Italy's progress towards decarbonisation, as it shows the ratio between tonnes of CO<sub>2</sub> not emitted into the atmosphere and the production of electricity from renewable sources. 

At the General Meeting of Shareholders in April 2022, the new immersive digital portal **Cielo Terra Mare** was also presented, where Terna sets out its projects for a sustainable and decarbonised future, based on renewable sources and respect for the environment. The platform offers an authentic virtual journey, featuring an innovative user experience, in which stories and projects are told through the movement of orbits and planets, enriched by 3D graphics and sound effects that enhance the immersive experience. 

In 2022, with a view to encouraging the emergence of an energy-conscious culture and raising widespread awareness of electricity issues, Terna finally presented **Nora, the future of energy is our job**, a nine-episode podcast about the Tyrrhenian Lab project and energy transition issues aimed at Generation Z (for more information see the box on page 245). Available on the main audio platforms, the podcast is aimed at all fans of energy and innovation issues via the professional - and also sentimental - journey of a young consultant and profiler. 

## FOCUS

### For the third consecutive year, Terna leads the way in Italy and Europe in terms of the quality of our digital communication

The Webranking by Comprend 2022-2023 study on the quality and transparency of the digital communication of listed companies, carried out in collaboration with Lundquist, ranked Terna number one among the 500 largest companies by capitalisation in Europe for the third consecutive year.

Confirming its record score of 95.9 out of 100, Terna was recognised as a top performer among European companies in the *About Us*, *Governance and Sustainability* categories, and in terms of best practices, also in the presentation of information to investors and jobseekers. Also outstanding was the Company's ability to present key role it plays in the energy transition. According to the study, Terna effectively illustrated the distinctive features of its business, providing a comprehensive overview of the strategic approach it has developed to support the energy transition. The Company has also distinguished itself on the sustainability front, pledging to accurately report the actions and initiatives it has introduced to achieve its goals. This clear and accurate communication - in terms of accessibility and the quality of the corporate information presented on the Company's website and on the main internet and social media platforms, enhanced by a rich mix of videos and infographics - is fully expressed in the digital magazine Lightbox, which in 2022 was revamped with a new and even more user-friendly layout.

## Communication activities

In 2022, the Group's communication generated coverage via the release of a total of 29,894 items (up 9% on 2021), in detail, traditional (newspapers, periodicals, radio and TV) and online media. In detail, 5,310 press articles appeared (up 16% on 2021), including 3,041 in the local press (up 37% on 2021). The Company featured 621 times in broadcasts by leading TV and radio channels (up 19% on 2021), whilst 23,963 articles were posted on leading websites (up 8% on 2021).



In December 2022, with a view to promoting efficient consumption behaviour and in agreement with the Ministry for the Environment and Energy Security, Terna launched **Noi siamo Energia** (We are energy), an awareness-raising campaign to promote aware and virtuous use of electricity in Italy. The corporate communication campaign identified a series of behaviours through which consumption, and therefore costs, can be reduced, with a view to achieving sustainability, cost savings and greater energy efficiency, for the benefit of all. To complement the campaign, the Terna app regarding the electricity system, which is available in all online stores, has been updated with a new feature (also available at [www.terna.it](http://www.terna.it)). The app, called **Ecologio**, enables all citizens to easily identify the daily peak period when it is preferable to consume less energy and, therefore, make an aware choice to decrease their requirements while cutting costs for the entire Italian electricity system.



In the first quarter of 2022, Terna presented an **update of the 2021-2025 Driving Energy Industrial Plan** (see the special paragraph on page 42). A key feature of the communication initiative for the presentation of the Plan was the video starring Terna's CEO, Stefano Donnarumma. In this short film, lasting around 30 minutes, the CEO set out and explained in depth the Company's industrial strategy, with images taken from meetings with colleagues at Terna's various local offices, and through the use of animations and infographics.

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Via an event organised simultaneously at the universities of Cagliari, Palermo and Salerno, Terna officially inaugurated the **Tyrrhenian Lab** on 14 November 2022 (see the box on page 245). With the aim of attracting talent and bringing expertise to these courses, Terna first appeared on TikTok in August 2022, with a campaign focused on geek pride and the brain drain that reached over 2 million people.



In 2022, Terna obtained **BIC - Best in Media Communication certification** from Fortune Italia and Eikon Strategic Consulting. The experts praised Terna's "*excellent reputational positioning, journalists' appreciation of the clarity of information provided, and highly effective communication of the image of a sound and growing company, which is a leading player in the energy transition and an innovation partner capable of generating value for local communities*". BIC-certified companies are assessed for clarity and quality of content, accessibility and comprehensiveness of information - three areas of communication that are certified by a scientific, transparent and objective method.



With its project **EcoTips: good sustainability practices**, implemented to support virtuous behaviour and good practices for the environment and aimed at all Company personnel, **Terna was awarded the Areté Prize for Internal Communication**. In particular, Areté awarded the prize to Terna "*for its intense and constant engagement of employees regarding social and environmental issues*". The editorial plan of *EcoTips: good sustainability practices* prepared by the national electricity grid operator's internal communication department, features empathetic storytelling and a clear and authentic style, including in the graphic layout, which enables measurement of the results achieved and identification of improvement actions. The format emerged from ongoing dialogue between the various corporate functions, including the People Organisation and Change and Sustainability departments, and is divided into six macro-areas: *Food and Nutrition, Energy Saving, Connecting Man and Nature, Responsible Procurement and Consumption, Social Relations and Sustainable Mobility*.



In 2022, Terna also launched the **Driving Energy 2022 Contemporary Photography Prize**, a free competition open to all photographers in Italy, aimed at promoting Italy's cultural development and new photographic talents. The theme of the first edition of the prize, which was awarded the Medal of the President of the Italian Republic, was "Cameras on Driving Energy". The initiative was very successful: the work of the photographers selected from more than 1,300 candidates of all ages, ranging from 18 to 85, and from all over Italy, generated a great deal of interest, not just in the world of photography but also within Italy's wider cultural scene. In November 2022, the five-winning works, and those of the other 35 finalists, were exhibited at the Palazzo delle Esposizioni in Rome, with entrance free of charge. This exhibition is also the first project by Terna and Palazzo delle Esposizioni to feature in the metaverse, the virtual 3D space in which users can move around, share content and interact via their own personalised avatars. An ad hoc version of the 3D exhibition has also been posted on the Prize's official website, [premiodrivingenergy.terna.it](http://premiodrivingenergy.terna.it), which may be visited at any time and from anywhere in the world. Finally, the selected works were also published in the third edition of the Driving Energy book of photographs, which served as the Prize's official catalogue.





AT 31 DECEMBER 2021

INPUTS

**709,851.6 GJ** consumed by Terna  
(to power substations and offices)

**0.40%** SF<sub>6</sub> leakage rate

**86%** of waste recycled

**30 km** of lines demolished

AT 31 DECEMBER 2022

OUTCOMES

**703,080.0 GJ** consumed by Terna  
(6,771.6 GJ less than in 2021)

**0.41%** SF<sub>6</sub> leakage rate

**91%** of waste recycled (+5.8%)

**245 hectares** of land freed up  
(158 more than in 2021)


Energy efficiency programmes

Circular economy roadmap

Impact of transmission

OUTPUTS





Managing the impact on natural capital	258
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# 5

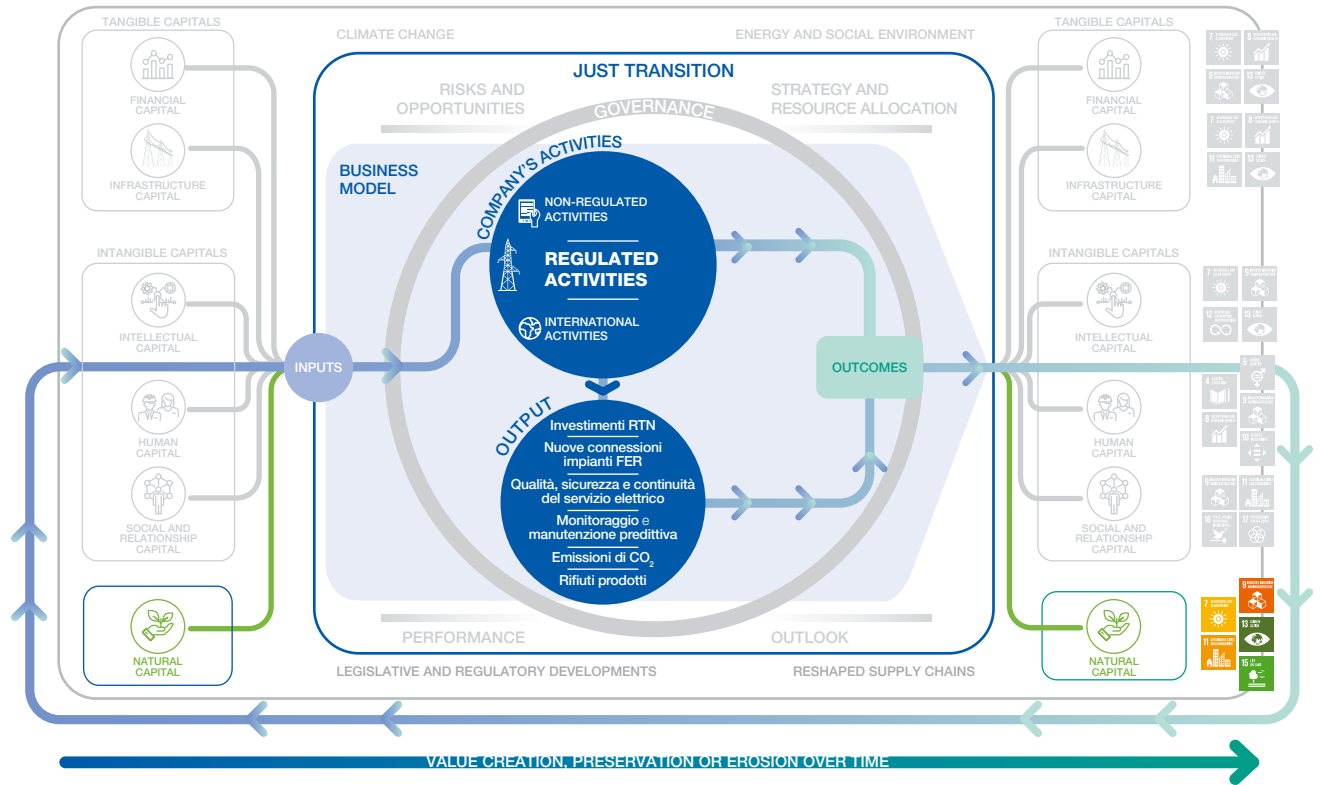
## Natural capital

## In this section

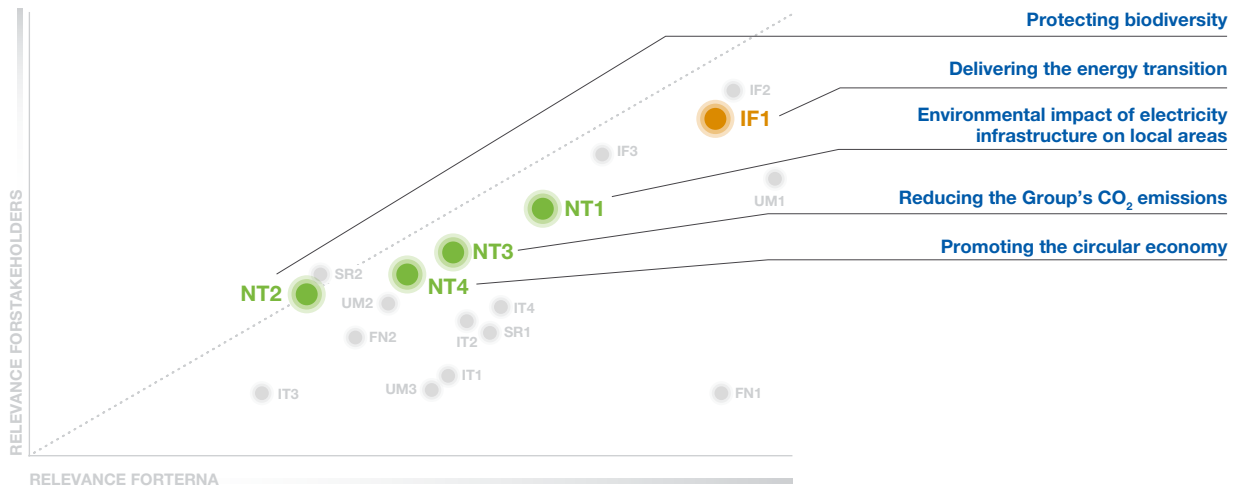
Natural capital is the only capital that Terna, in common with every other business or person, does not have at its disposal but has an obligation to preserve, and potentially enhance, for the benefit of future generations. In keeping with the outcome of the materiality analysis, implementation of the Group's business model focuses on cutting atmospheric emissions and energy efficiency, the recycling and reuse of materials in accordance with circular economy principles, protecting landscapes and biodiversity and, where possible, a circular approach to operations.



VALUE CREATION



MATERIALITY



These infographics highlight the topics dealt with in this section with the aim of **facilitating information connectivity**: in this way, the section offers an overall view showing the links between all the factors that influence Terna's ability to create value over time and how they are dependent on each other. Material topics are indicated with a cross-reference in blue, showing the relevant code.

# Managing the impact on natural capital

Terna's main reference in managing natural capital<sup>92</sup> is the Environmental Policy, which is part of the Group's Integrated Policy.

The Company's **Environmental Policy** sets out its commitment to containing and reducing its environmental impact, in some cases going beyond legal requirements when this does not compromise the protection of other general interests provided for under the concession.

This Policy is fully implemented through the **Integrated Management System**, which plays a key role in its implementation and control. In addition, in view of its sustainable business approach, Terna extends the issue of Natural Capital protection to both its supply chain and local stakeholders directly affected by NTG development projects.

Terna's main contribution to achievement of the most urgent environmental target – being an efficient and concrete fight against climate change – is its commitment to carrying out the investment provided for in the Development Plan, which enables the energy transition toward a carbon free system. The Company is also aware that the current international situation has made the energy transition a strategic imperative for the country, in terms of both the economic and social aspects. To achieve the energy transition objective, Terna constantly refers to the **Just Transition**, taking into account the impact of the energy transition on employees, suppliers and local communities (see page 12).

In terms of greenhouse gas emissions, Terna has for years focused on several voluntary programs, primarily regarding the achievement of reductions in SF<sub>6</sub> gas leakage, (scope 1), making buildings energy efficient and saving energy at substations (scope 2). In 2021, Terna's commitment to tackling climate change was furthered bolstered with the formal definition and adoption of its **Science Based Target (SBT)** initiative for 2030, updated in 2022 on more challenging terms. (see page 260).

The construction of electricity infrastructure, provided for in the Development Plan, together with the maintenance of existing infrastructure and the removal of obsolete items, is linked to the production of waste, a high proportion of which is recovered. In 2022, the Company completed preparations for the definition of a Circular Economy Strategy, setting out a roadmap for actions through to 2023, designed to implement a **Circular Economy** model (see page 271). The content relating to this topic are identified by an icon placed at the side of the text.

Terna's activities also have an environmental impact on the landscape, resulting from the physical presence of power lines and electricity substations and their interaction with the surrounding natural and manmade environment. To minimise this, we adopt solutions such as the use of pylons with a reduced visual impact and, when possible, the use of underground sections of line or the use of green engineering, which also consider the **protection of the surrounding biodiversity**. In this context, the most important contribution is the physical removal of obsolete power lines following rationalisation initiatives. In this regard, it should be noted that Terna is the first company at international level to have developed guidelines enabling application of the assessment criteria in the international **Envision** protocol to new electricity transmission infrastructure. The protocol measures, confirms and certifies how green and resilient its infrastructure is (see box on page 249).

<sup>92</sup> When the data presented in this chapter refers to the Group, it refers to 98% of employees (all employees except those who work for Terna Crna Gora, the South American companies, Avvenia and the LT Group), unless otherwise stated. When instead the data refers to Terna, it refers to 83% of employees. In terms of revenue, on the other hand, these percentages are 99% when referring to the Group and 89% when the data refers to Terna.

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# Atmospheric emissions

NT3

IF1

SASB

The guidelines in Terna's Industrial Plan are consistent with the targets set internationally to combat climate change, starting with the agreement signed at the United Nations Climate Conference (COP21) in Paris in December 2015, which identifies the containment of CO<sub>2</sub> emissions into the atmosphere as the most urgent and efficient action to keep global warming within acceptable limits.

In line with these guidelines, Terna has established further objectives for the three emission scopes (scopes 1, 2 and 3), setting out the actions necessary to achieve them and the indicators to monitor their state of progress.

## Action to combat climate change

SCOPE	ACTION	MONITORING KPIS	OBJECTIVE
<b>TERNA's ACTIVITY</b>			
scope 1 emissions	Reduction of SF <sub>6</sub> gas emissions by cutting losses	SF <sub>6</sub> losses as a percentage of total installed SF <sub>6</sub> amount SF <sub>6</sub> emissions	<b>- 46%</b> (2030 vs 2019 - SBT di Terna)
	Greater energy efficiency and reduction of consumption related to offices and substations	Building and substation consumption Number of buildings and substations monitored through sensors	
	Reduction of vehicle fleet consumption thanks to green vehicles	% Hybrid vehicles Fleet consumption	
scope 2 emissions	Reduction of emissions associated with grid losses thanks to Development Plan projects	Grid losses in GWh losses as a percentage of energy transported Emissions associated with grid losses	
scope 3 emissions	Reduction of scope 3 emissions thanks to circular economy projects and green transformers	% recycled waste	<b>- 11%</b> (2030 vs 2021 - SBT di Terna)
		Number of green transformers sold	
<b>DECARBONISATION OF THE COUNTRY</b>			
Italian emissions	Development Plan projects for the country's decarbonisation	New RES connections Energy mix	<b>- 55%</b> (2030 vs 1990 - Green Deal UE)

## FOCUS

### Terna updates its Science Based Target (SBT) to accelerate the reduction of greenhouse gas emissions



The *Science-Based Target (SBT)* is the most advanced international initiative in terms of promoting a low-carbon economic model. It takes the form of a GHG emission reduction target in line with the Paris Agreement of 2015, which, if adopted across the board, would ensure that temperature increases are kept below specific limits.

In 2021, Terna adopted its first *SBT* objective, in line with the scenario defined as *well below 2°C* in the Paris Agreement and, in 2022, revised the emission inventory of the whole Group, including those of the emissions of the subsidiary, Brugg, acquired in 2020.

Revision of the inventory resulted in an opportunity to realign the Group's *SBT* with the scenario of 1.5°C, namely the most ambitious objective set by the Paris Agreement.

This additional contribution from Terna to combating climate change, took full shape in February 2023 with the approval by the SBT Initiative of Terna's new SBT, with which Terna has committed to **cutting its carbon dioxide equivalent emissions by 46.2% compared with 2019 levels (scope 1 and 2) by 2030**.

The new *SBT* also involves intervention on scope 3 emissions, which by 2030 will be cut by 11.1% compared with 2021, also thanks to actions set out in the Group's Circular Economy Roadmap (see page 271).

Both targets adopted by Terna will be monitored and reported on annually in the Group's Integrated Report.



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## Direct CO<sub>2</sub> emissions (scope 1)

< 305-1

**Direct greenhouse gas emissions** connected with Terna's activities **derive mainly from SF<sub>6</sub> gas leaks (89% of total direct emissions in 2022)**, which are up on the previous year due to losses from some equipment.

SF<sub>6</sub> (sulphur hexafluoride) gas is used as insulation in certain electrical equipment (circuit breakers, current transformers and armoured equipment). Part of the gas in the equipment can leak into the atmosphere due to defective seals, when faults occur, and sometimes during the re-pressuring process. SF<sub>6</sub> gas has a very powerful greenhouse effect, which is 23,500 times greater than CO<sub>2</sub>: leakage into the atmosphere of 1 kg of SF<sub>6</sub> is equivalent to 23.5 tonnes of CO<sub>2</sub>.

### Total direct greenhouse gas emissions – tonnes of CO<sub>2</sub> equivalent

	GROUP (*)			TERNA		
	2022	2021	2020	2022	2021	2020
Direct emissions	76,505.6	73,203.7	63,544.1	72,477.1	68,942.0	56,202.6

(\*) The figures shown in the column Group in this table regard Terna, the Tamini Group and Brugg

The table below shows details of Terna's emissions, without considering Tamini and Brugg, as their environmental impacts in terms of CO<sub>2</sub> are not fully comparable due to the specific nature of their businesses.

### Total direct greenhouse gas emissions – tonnes of CO<sub>2</sub> equivalent (\*)

	TERNA		
	2022	2021	2020
Direct emissions			
Leakages of SF <sub>6</sub>	64,732.5	61,204.6	49,013.7
Diesel for motor vehicles	6,198.7	6,453.4	5,418.9
Jet fuel for helicopters	595.9	452.0	488.0
Fuel oil for heating and generators	336.5	279.5	403.3
Leakages of refrigerant gases (R407C, R410A) <sup>(1)</sup>	219.2	260.3	501.4
Natural gas for heating	291.1	196.5	323.1
Petrol for motor vehicles	103.2	95.7	54.2
<b>Total direct emissions</b>	<b>72,477.1</b>	<b>68,942.0</b>	<b>56,202.6</b>

(\*) The conversion of direct energy consumption and leakages of SF<sub>6</sub> (sulphur hexafluoride) and refrigerant gases into equivalent CO<sub>2</sub> emissions has been carried out using the parameters indicated in the IPCC Fifth Assessment Report (AR5) and the Greenhouse Gas Protocol (GHG) Initiative.

<sup>(1)</sup> It should be noted that, in addition to what is reported, losses of R32 and R134 gas in 2022 amounted to 117 tonnes of equivalent CO<sub>2</sub> emissions.

305-5 > The management of SF<sub>6</sub> gas

The amount of SF<sub>6</sub> present in the Group's infrastructure has consistently grown. This is a trend – common to many transmission grid operators – linked to the better insulating performance of this gas and the smaller footprint of substations built (armoured) with equipment containing SF<sub>6</sub> in comparison with more traditional solutions.

This is a significant aspect for Italy, which has landscapes of major value and is densely populated. The search for solutions able to contain climate-changing emissions produced by SF<sub>6</sub> leakages took full shape at the end of 2020, with the adoption of a closed cycle regenerated SF<sub>6</sub> gas management system (see the dedicated box on page 273).

SF<sub>6</sub> amounts and emissions

	UNIT	TERNA		
		2022	2021	2020
SF <sub>6</sub> amount	kg	664,192.2	650,239.8	649,781.7
- in equipment installed	kg	616,579.6	608,766.5	600,870.5
- in cylinders	kg	47,612.6	41,473.2	48,911.2
SF <sub>6</sub> leakage as % of total	%	0.41	0.40	0.32
SF <sub>6</sub> greenhouse gas emissions	kg	2,754.6	2,604.5	2,085.7

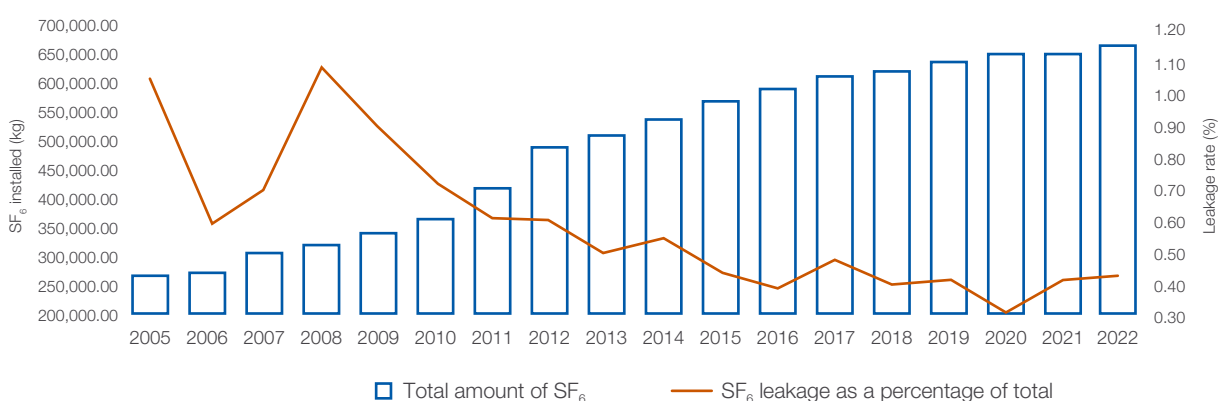
During the period from 2012 to 2017, the related target for the leakage rate was 0.60%, down 0.10% with respect to the average for previous years. In the light of the actual performance recorded until 2017, in the early months of 2018, the target was reformulated. For the period 2021-2025 the target has been lowered to 0.45%. The target amounts should be qualified, bearing in mind the already substantial decrease recorded in the previous period.

“Transmission impacts” target – KPIs and targets in the ESG plan 2022



	2022		2023	2024	2025
	TARGET	RESULT			
SF <sub>6</sub> leakage rate on total installed	0.45%	0.41%	0.45%	0.45%	0.45%

SF<sub>6</sub> leakage rates



In 2022, the leakage rate regarding total equipment installed and cylinders was **0.41%**. Though up slightly from 2020, this figure is in line with the company target.



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## Indirect CO<sub>2</sub> emissions (scope 2)

< 305-2

In line with the GHG Protocol standard<sup>93</sup> and the main international benchmarks, starting with the Integrated Report - Consolidated Non-financial Statement (DNF) for 2021, Terna includes in the figure for its total indirect emissions (scope 2), in addition to those resulting from electricity consumption, the CO<sub>2</sub> emissions associated with grid losses, despite these not being completely under its control.

In terms of indirect emissions related to the consumption of electricity, it should be borne in mind that, for technical reasons, Terna's energy consumption is not attributable to a supply contract. This makes it impossible to reduce indirect emissions by selecting supplies from renewable sources and accounts for the need to use an average conversion factor for Italian electricity consumption. For this reason, in line with GHG Protocol methodology, emissions linked to electricity consumption are classified only as location-based and not as market-based.

### Total indirect greenhouse gas emissions – tonnes of CO<sub>2</sub> equivalent

	GROUP (*)			TERNA		
	2022	2021	2020	2022	2021	2020
Indirect emissions	1,739,906.5	1,662,890.5	1,450,131.4	1,735,046.6	1,658,342.6	1,445,832.7

(\*) The figures shown in the column Group in this table regard Terna, the Tamini Group and Brugg.

The table below shows details of Terna's emissions, without considering Tamini and Brugg, as their environmental impacts in terms of CO<sub>2</sub> are not fully comparable due to the specific nature of their businesses.

### Total indirect greenhouse gas emissions – tonnes of CO<sub>2</sub> equivalent

	TERNA		
	2022	2021	2020
Electricity <sup>(1)</sup>	64,380.6	61,232.6	59,490.7
Grid losses	1,670,666	1,597,110	1,386,342

(1) The conversion of indirect electricity consumption is carried out considering the share of total Italian electricity production represented by thermoelectric production in 2022. Allocation for the purposes of the production mix was based on the December 2022 issue of the "Monthly Report on the Electricity System" available on the website at [www.terna.it](http://www.terna.it). It should also be noted that approximately 6% of Terna's electricity consumption is based on an estimate.

<sup>93</sup> The GHG Protocol has established an internationally recognised framework for measuring and managing greenhouse gas (GHG) emissions from private and public sector operations, value chains and mitigation actions.

EU12 > **Grid losses**

Grid losses are defined as the difference between energy injected by producers (including imported energy) and final consumption; the losses for Terna are those associated with the transmission grid. The figures shown in the following table are based on direct measurement of the energy injected and withdrawn from the transmission system.

Terna became responsible for the direct measurements in 2017, whereas in previous years the Company had been responsible only for the measurement of energy injected into the NTG and not for the energy withdrawn, for which the distribution companies were responsible. Considering the margin of uncertainty regarding the accuracy of the readings made and in order to reduce the risk of interpreting the effect of the measurement errors and the related corrections as actual trends, in previous publications it was decided to use the arithmetic moving average of losses with a three-year window as annual data.

Terna has been responsible for direct measurements for five years now. This undertaking of responsibility has significantly reduced the margin of uncertainty and, consequently, starting from the 2021 Integrated Report, it was decided to scrap the use of the moving average with a three-year window and to report the values of the GWh as of 31 December of each year.

**Grid losses**

	2022		2021		2020 (*)	
	% COMPARED WITH ENERGY DEMAND	GWH	% COMPARED WITH ENERGY DEMAND	GWH	% COMPARED WITH ENERGY DEMAND	GWH
VHV and HV grid	1.60	5,068	1.62	5,143	1.46	4,435

(\*) The average annual loss in 2020 is lower compared with the averages in 2021 as a result of the reduction in the volumes of energy transported due to the COVID-19 emergency, in turn bringing about a reduction in electricity consumption at national level following implementation of the restrictive measures adopted by the government.

Grid losses are a physical effect of the electricity lost as it passes through conductors and during transformation. Losses are influenced by the level of voltage, the volume of electricity transported, the materials used and the distance between the points at which energy is produced and consumed. Terna can only determine the extent of the losses, which are not completely under its control. Grid development activities, given the same structure of production, would lead to greater efficiency and thus a reduction in losses. However, the actual impact of development initiatives on losses is unpredictable and not under the control of the transmission operator, as it depends on concomitant changes in production capacity and electricity supply and demand at local level.

Dispatching operations, needed to guarantee a constant balance between injections and withdrawals and to prevent the occurrence of grid security problems and disruptions, are carried out in accordance with regulatory criteria within the production set-up created by the energy market. They cannot be influenced by Terna with the aim of minimising losses.

CO<sub>2</sub> emissions associated with grid losses amounted to 1,670,666 tonnes in 2022, 1,597,110 tonnes in 2021 and 1,386,342 in 2020<sup>94</sup>. The trend differs from the one regarding losses measured in GWh due to changes in the conversion factor used to convert energy into CO<sub>2</sub> equivalent emissions, which in turn is affected by changes in the production mix among Italian power generators.

As previously noted, Terna does not have complete control over grid losses and, for this reason, up to 2020 the related CO<sub>2</sub> emissions were not reported in the scope 2 indirect emissions. However, starting from the report for 2021, it was deemed opportune to align the reporting methodology with that set by the GHG Protocol, the leading international standard for reporting CO<sub>2</sub> emissions<sup>95</sup>.

<sup>94</sup> The 2020 value was affected by the drop in volumes related to the Covid-19 health emergency.

<sup>95</sup> The GHG Protocol has established an internationally recognised framework for measuring and managing greenhouse gas ("GHG") emissions from private and public sector operations, value chains and mitigation actions.

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## Summary of direct and indirect emissions: carbon intensity

The overview of Terna's direct and indirect CO<sub>2</sub> emissions shows how the first (scope 1) primarily relate to SF<sub>6</sub> gas leakages whilst the second (scope 2) to grid losses and electricity consumption at substations and offices (scope 2).

### Total direct and indirect greenhouse gas emissions - tonnes of CO<sub>2</sub> equivalent

	GROUP (*)			TERNA		
	2022	2021	2020	2022	2021	2020
Direct emissions	76,505.6	73,203.7	63,544.1	72,477.1	68,942.0	56,202.6
Indirect emissions	1,739,906.5	1,662,890.5	1,450,131.4	1,735,046.6	1,658,342.6	1,445,832.7
<b>Total emissions</b>	<b>1,816,412.1</b>	<b>1,736,094.2</b>	<b>1,513,675.5</b>	<b>1,807,523.7</b>	<b>1,727,284.6</b>	<b>1,502,035.3</b>

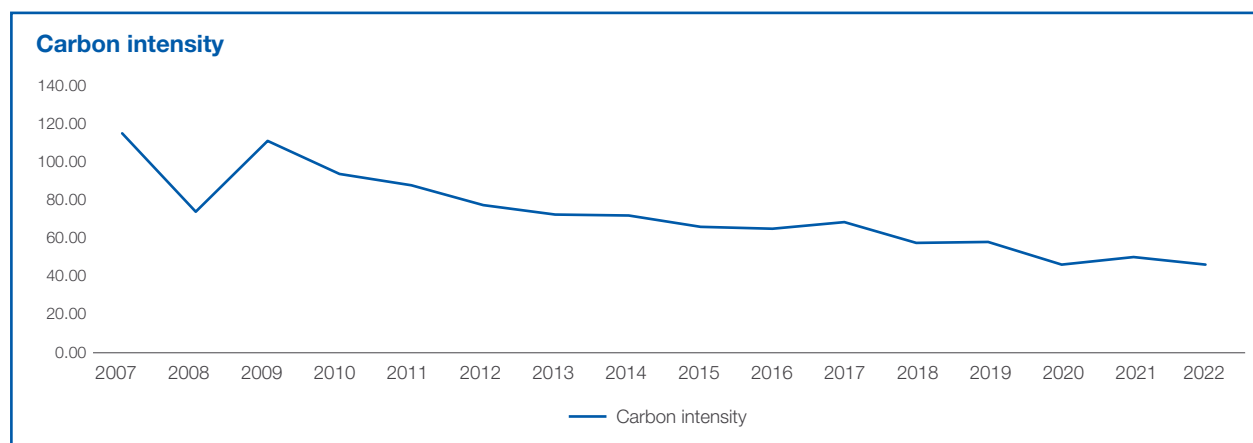
(\*) The figures shown in the column Group in this table regard Terna, the Tamini Group and Brugg.

Carbon intensity, based on the ratio between Terna's direct and indirect emissions and revenue, has improved thanks to the performance of revenue, despite a slight increase in emissions (up 5%).

### Carbon intensity – tonnes of CO<sub>2</sub> equivalent/revenue (€m)

< 305-4

	TERNA		
	2022	2021	2020
Emissions (scope 1 and electricity)	136,857.7	130,174.6	115,693.3
Emissions (scope 1 and electricity) in relation to revenues	46.2	50.0	46.5



In order to factor in network losses, over which Terna does not have complete control, into an emissions comparison (see page 264) with a comparable economic scale, it was decided to compare total emissions with the inclusion of pass-through items<sup>96</sup> in Terna's revenue. Taking these factors into account, the resulting ratio is a 128.2 tonnes of CO<sub>2</sub> equivalent/revenue in 2022, 158.9 in 2021 and 187.9 in 2020.

For more information on carbon intensity ("Comparative data") scan this QR code.



<sup>96</sup> The definition of pass-through items is provided in the note on revenue in the notes to the consolidated financial statements.

305-3 > Other indirect CO<sub>2</sub> emissions (scope 3)

In addition to emissions deriving from electricity consumption and losses from Terna's grid, in line with the GHG Protocol and the classification used for the CDP questionnaire (formerly the Carbon Disclosure Project), Terna also reports the following indirect (scope 3) emissions.

Other indirect emissions (scope 3) – tonnes of CO<sub>2</sub> equivalent

	GROUP (*)			TERNA		
	2022	2021	2020	2022	2021	2020
Purchase goods and services	122,650.7	98,638.4	4,120.1	1,308.7	9,376.2	
Capital goods	81,294.8	27,447.8	81,294.8	27,447.8	145,838.2	
Activities related to energy and fuels	468,983.8	475,907.6	466,686.0	473,450.6	258,843.6	
Transport and distribution upstream	1,142.9	395.0	1,142.9	395.0	3,214.5	
Waste generated	3,945.9	2,321.8	3,945.9	2,321.8	4,135	
Business travel	985.8	918.0	712.0	918.0	626.0	
Commuting employees	9,321.1	8,731.2	7,690.8	7,180.8	6,689.5	
Downstream transport and distribution	233.2	502.7	n,a	n,a	n,a	
Use of products sold	965,738.9	973,225.1	n,a	n,a	n,a	
End of life treatment of the products sold	105.4	132.2	n,a	n,a	n,a	

(\*) The figures shown in the column "Group" in this table regard Terna, the Tamini Group and Brugg.

As regards emissions linked to the categories, *Purchased goods and services*, *Capital goods*, *Logistics* and *Waste generated*, estimates were made using the PEF (Product Environmental Footprint) method, forming the basis of the LCA (Life Cycle Assessment) study carried out by Terna in collaboration with Bocconi University. The figure for these emissions is directly influenced by the quantity (in km) and type (cable or overhead line, and voltage level) of the new power lines built each year. The figure for business travel is the final amount for travel by employees in 2022.

## 302-1 &gt; 305-5 &gt; Energy consumption and cuts in emissions: energy efficiency

The Terna Group's energy consumption, which also includes the consumption of Tamini and Brugg, is shown below. Tamini's and Brugg's energy consumption is mainly due to natural gas consumption.

## The organisation's direct and indirect energy consumption - gigajoules

	GROUP (*)			TERNA		
	2022	2021	2020	2022	2021	2020
Direct consumption in GJ	172,124.2	174,407.2	167,656.3	103,319.0	102,181.9	92,038.0
Indirect consumption in GJ	756,153.2	762,573.6	737,620.1	703,080.0	709,851.6	687,913.1
<b>Total consumption in GJ</b>	<b>928,277.4</b>	<b>936,980.8</b>	<b>905,276.4</b>	<b>806,399.0</b>	<b>812,033.5</b>	<b>779,951.1</b>

(\*) The figures shown in the column Group in this table regard Terna, the Tamini Group and Brugg.

The following table, on the other hand, show details of the Terna's energy consumption without considering Tamini and Brugg, as their environmental impacts in terms of CO<sub>2</sub> are not fully comparable due to the specific nature of their businesses.

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**Direct and indirect energy consumption by primary source – GigaJoule (\*)**

	TERNA		
	2022	2021	2020
<i>Direct consumption in GJ</i>			
Diesel for motor vehicles <sup>(1)</sup>	83,755.1	87,196.7	73,219.0
Jet fuel for helicopters	8,333.7	6,321.7	6,825.4
Fuel oil for heating and generators	4,547.2	3,776.1	5,448.8
Natural gas for heating	5,192.0	3,505.0	5,762.6
Petrol for motor vehicles <sup>(1)</sup>	1,491.0	1,382.5	782.2
<b>Total direct consumption</b>	<b>103,319.0</b>	<b>102,181.9</b>	<b>92,038.0</b>
<i>Indirect consumption in GJ</i>			
Electricity to power substations and offices <sup>(2)</sup>	703,080.0	709,851.6	687,913.1

(\*) Direct consumption data in tonnes and thousands of m<sup>3</sup> is shown in detail in the Key indicator tables (published in the Sustainability section of the website at [www.terna.it](http://www.terna.it)). To convert the volumes of the primary resources into gigajoules, the parameters set out in the Global Reporting Initiative (GRI) protocols were used.

<sup>(1)</sup> Only consumption of operating vehicles is taken into account and not the cars used by managers.

<sup>(2)</sup> The conversion of indirect electricity consumption is carried out taking into account the share of total Italian electricity production represented by thermoelectric production in 2022, given Terna's inability to select a specific supplier, due to technical reasons. Allocation for the purposes of the production mix was based on the December 2022 issue of the "Monthly Report on the Electricity System" available on the website at [www.terna.it](http://www.terna.it). In view of the above, and in line with the GHG Protocol method, the emissions associated with electricity consumption can only be classified as location-based and not market-based. In keeping with this approach, the portion of electricity deriving from renewable sources for the three-year period is as follows: 208,129 GJ in 2022, 244,776 GJ in 2021 and 241,544 GJ in 2020.

The transmission of electricity only requires direct energy consumption for certain support activities, including:

- fuel for the Company's operational vehicles, cars and helicopters used for line inspections, fault repair and other line and substation maintenance activities;
- fuel oil for emergency generators that only come into operation in the event of a power failure. It is estimated that, nationwide, generators were used for a total of 3,931 hours (consumption equal to 1.2 GJ per hour, in line with the previous year);
- fuel oil and natural gas for office heating.

Indirect energy consumption coincides with the electricity used to run substations and operating equipment (88% of the total in 2022) and for office and laboratory use. The figure relating to office consumption is 85,656 GJ (down from 100,412 GJ in 2021) which, compared to the total number of Terna employees (less blue-collar workers), corresponds to per capita consumption of 24.4 GJ. This last figure is the latest in a constant downward trend (31,6 GJ in 2021 and 33,3 GJ in 2020), bearing out the effectiveness of the energy efficiency measures in offices and buildings described on page 269.

Terna focuses its attention on several voluntary action programmes aimed at reducing its main sources of greenhouse gas emissions, which primarily regard curbing the SF<sub>6</sub>, leakage rate, the energy efficiency of buildings and energy saving at electricity substations.

302-3

## The Energy Management System

The **online project to monitor electricity consumed** by the 24 transformer substations located across the country (the principal energy carriers are monitored, with measurements covering approximately 90% of total consumption) continued in 2022. The substations are selected according to climatic location, size and type of activity. A further 21 transformer substations located across the country were included in the project in 2022, with overall consumption monitored quarter-hourly basis.

The sensors installed send data to the **EciWeb** information system for deferred and/or online monitoring of energy-intensive elements (in Terna's case, office buildings and substations) relating to the high-voltage electricity transmission service. EciWeb is used for detailed monitoring of electricity consumption at 11 **major buildings** and 112 transformer **substations**.

In line with the sustainability goals included in the 2021-2025 Industrial Plan regarding the **Energy efficiency of offices**, and as envisaged by the project implemented with support from the subsidiary, Awenia, and coordinated by the Group's Energy Manager, 17 of the 35 energy audits of the Terna Group's buildings were carried out in 2022. Once all the audits have been completed, this activity will enable Terna to set an energy consumption reduction target for the Group's offices via targeted efficiency improvement projects.

The **autotransformer replacement plan** has led to the definition of another target for reducing electricity consumption, relating to ancillary services. Analysis was carried out regarding calculation of the electricity that will be saved over a five-year period via the replacement, by 2025, of 60 autotransformers across the country (by the end of 2025, 60 transformers will have been replaced with expected total savings of approximately 80 GWh).

Regarding support for the preparation of course content for in-house training programmes, the "Management Systems" department has implemented and provided, in agreement with relevant internal departments, the following training/information activities:

- Online energy efficiency and monitoring course focusing on consumption CNI Training Programme (the course was held in the beginning of 2022);
- Energy efficiency: context and ISO 50001 Management System (the online course is available on the Terna Academy platform).



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## Energy efficiency of substations and offices

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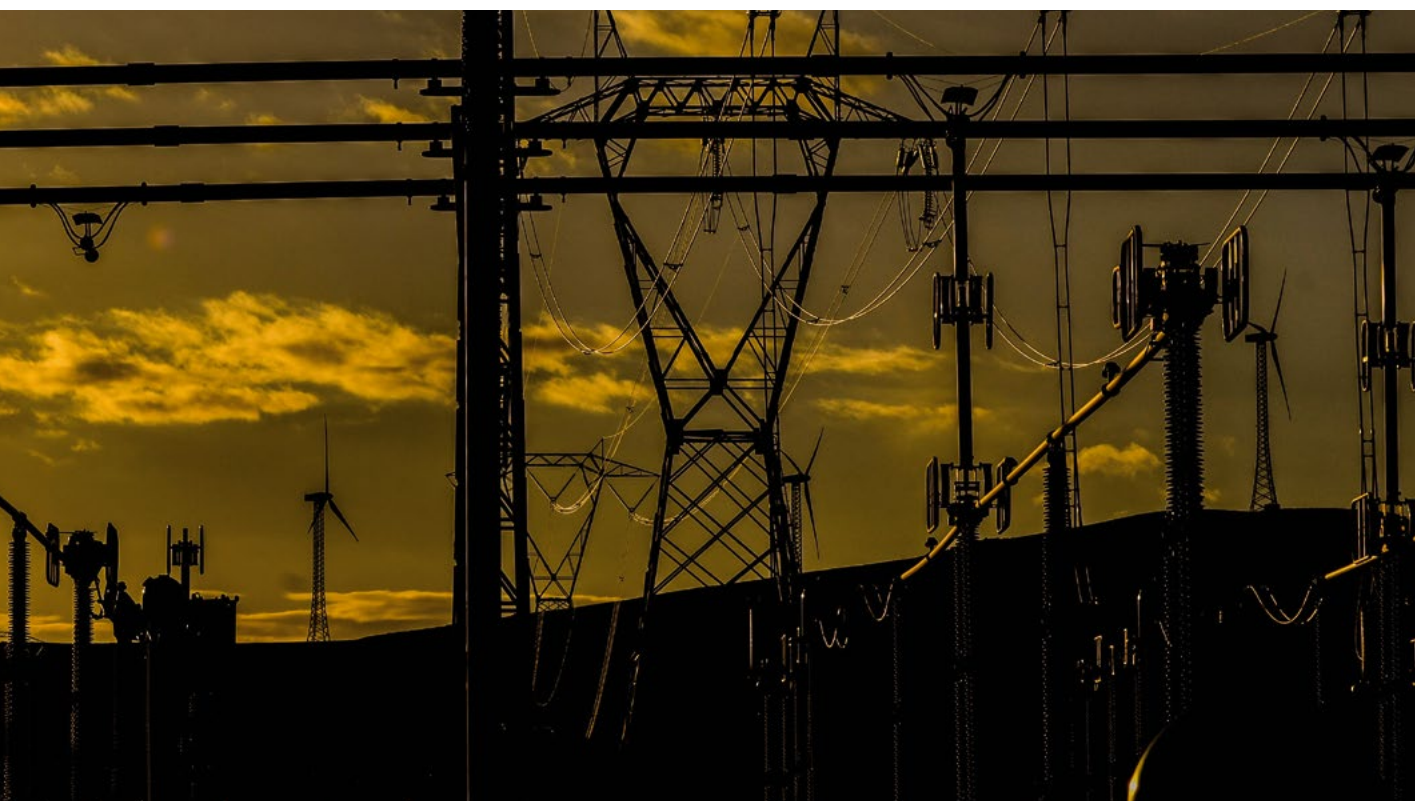
At Terna, the development of energy efficiency programmes relating to the use of electricity in substations and offices is experimental, as the Company's electricity consumption falls within the category of "own transmission uses" which, according to the industry's regulator, are not to be included in operating costs.

With a view to improving energy performance, several Terna's offices have also been refurbished or are newly built under a long-term programme, which aims to upgrade the energy efficiency class of buildings owned by the Group. Proposed work at offices primarily regards improvements to the energy efficiency of lighting, air-conditioning, and heating.

The proposed changes at substations primarily regard the replacement of lighting towers and perimeter lighting with LED technology.

Below is a description of initiatives completed in 2022 with a view to reducing energy consumption, of which the benefits are measurable:

- **Results of previous years' initiatives:** at 31 December 2022, the energy efficiency initiatives launched in 2014 had led to an overall reduction of around 1,264 tonnes of CO<sub>2</sub> (including 94 tonnes in 2022 alone). Due to the ongoing health emergency, the planning of certain initiatives was delayed until 2022.
- **Improving the efficiency of air conditioning systems:** in 2022, the air conditioning systems at the Parma Infrastructure Unit and the electricity substations attached to the unit were replaced with conditioning systems using latest generation motors. These initiatives led to a reduction of approximately 6 tonnes in annual CO<sub>2</sub> emissions.
- **Improving the efficiency of lighting systems:** in 2022, the lighting systems in the offices used for the Northern Transmission District, the substations managed by the Frattamaggiore (CE), Turin and Parma Infrastructure Units and by Terna Crna Gora (Montenegro) were replaced. This led to an annual reduction of approximately 268,582 kWh, equivalent to approximately 88 tonnes of CO<sub>2</sub> a year.
- **Self-production of electricity from renewable sources:** existing renewable self-production plants continued to operate in 2022.



## FOCUS

### LEED Platinum certification for the eco-sustainable refurbishment of Lazio Infrastructure Units



In 2022, Terna obtained the **LEED Platinum Certification** for the refurbishment of a building which dates back to the 60s, located in the Marcigliana Natural Reserve (RM) and today home to Terna's Infrastructure Unit for central and southern Lazio.

LEED (Leadership in Energy and Environmental Design) certification is an American protocol, developed by the U.S. Green Building Council (USGBC). This is designed to **promote a sustainable approach**, recognising the performance of buildings based on key elements, such as energy and water savings, reduction of CO2 emissions, improving the ecological quality of the interiors, materials and resources used, the design and the choice of site.

The LEED Platinum awarded to Terna is the highest level of certification and derives from a points-based system that assesses, for various areas, the entire life cycle of the upgrade in accordance with the **from cradle to grave** principle. The three-year project involved the **Building Management & Maintenance Unit of the Company Protection and Services department**, which envisaged, among the various eco-sustainable solutions, the use of energy from renewable sources, reduced water consumption and the highest quality of air and internal temperatures within the building.

Currently, in Italy, this level of certification for a Building Design and Construction project has only been awarded to another four buildings.

### Vehicle fleet

The Company's operational vehicles are used nationwide to carry out power line inspections and, in general, to visit infrastructure and construction sites.

Terna's vehicle fleet consists of three operating helicopters, purchased in 2015, used to carry out scheduled and random inspections of power lines, and a fleet of cars that is frequently renewed, of which over 90% are equipped with Euro 6 and Euro 5 engines. At 31 December 2022, the fleet includes 91 electric vehicles.



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# Circularity in operating processes

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For Terna, the establishment of a circular economy strategy is an additional contribution to the ongoing transformation process, confirming a new economic model that respects natural capital.

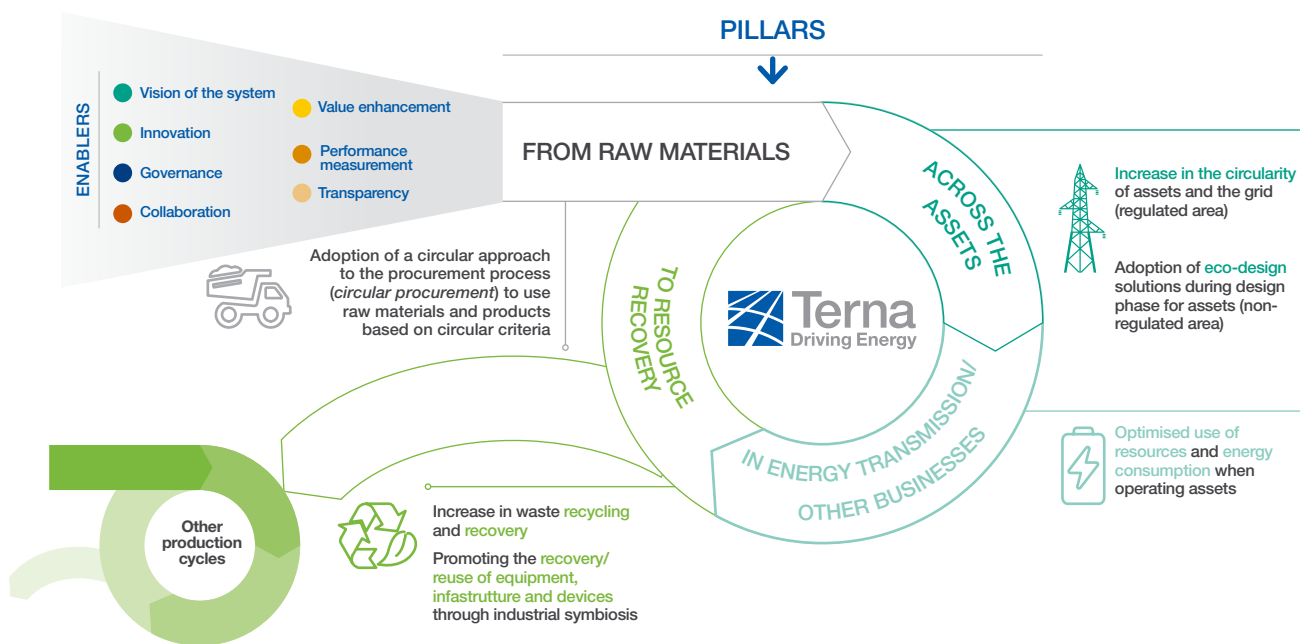
With this programme, launched at the end of 2021, Terna is pursuing the objective of integrating circularity into its business model to strengthen its sustainability, and extending it to its supply chain.

## Circular economy strategy and roadmap

In 2022, the Company completed preparations for the definition of a Circular Economy Strategy and setting out a Roadmap of actions through to 2023 for the procurement of materials and their correct use, the sustainable use of resources, including secondary raw materials, and the management of waste.

The first phase of this project – the circularity analysis – has enabled, on one hand, to assess the current level of internal oversight on circularity issues and, on the other, to identify the main trends and circularity business models of the sector. The comparative study of the two contexts, internal and external, has identified Terna's distinctive characteristics and points for improvement and, subsequently, potential guidelines for inclusion in the Strategy.

The second phase of the project enabled the determination of Terna's expected positioning, based on which the Group's Circular Economy Strategy was established.



The strategy is based on four **pillars** – each of which relates to every phase of the Group's operating cycle (including Non-Regulated Activities) – which respond to the need to focus each circularity action in the Company to a specific business area, namely:

- procurement;
- asset management;
- operation of the electricity grid;
- the disposal of assets.

The Strategy's **enabling factors**, being those elements essential to effectively manage the transition to a circular economy model, are as follows:

- 1) systemic vision;
- 2) innovation;
- 3) governance;
- 4) collaboration;
- 5) optimising value;
- 6) transparency;
- 7) performance assessment.

The third phase coincided with the establishment of the Circular Economy Roadmap, which consists in the development and systematisation of the initiatives and actions designed to incorporate the circular economy model within Terna's business model.

The Roadmap covers the period through to 2030 and aims to be aligned with the 2021-2025 Industrial Plan. In addition to identifying new areas of action for an increasingly circular business model, the activities carried out during 2022 to set out the Roadmap have led to the systematisation of the various circular economy initiatives already launched by Terna over the years.

In order to constantly improve and progressively align with developing business needs, new regulations and best-practices in the sector, the Roadmap will be revised and expanded over time to become a dynamic tool, able to adapt itself to the external scenario and Terna's priorities.

During 2023, numerous activities to implement the Roadmap will be carried out, in addition to laying out the actions previously identified and approved to achieve the expected targets, which will be monitored. A feasibility analysis will also be conducted, prior to the approval of additional actions requiring further consideration by senior management.

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## FOCUS

### An example of Circularity: the regeneration of SF<sub>6</sub> gas



At the end of 2020, Terna launched the *Closed Cycle Management of SF<sub>6</sub>* project, in collaboration with Synecom, a Company specialising in the **closed cycle management of regenerated SF<sub>6</sub> gas**.

This activity, with the goal of reducing climate-changing emissions, is an example of an initiative already in place which, during the circularity analysis, resulted perfectly in line with the targets set in the Roadmap, in which it was therefore included.

Before the launch of this collaboration, SF<sub>6</sub> gas disposed of during routine and extraordinary maintenance, due to it no longer functioning as an insulator, was sent for final disposal (thermal destruction) and replaced with new gas purchased to top up the infrastructure for maintenance purposes.

Both the production of new SF<sub>6</sub> gas and the disposal of the old gas result in leakages and, therefore, climate-changing emissions into the atmosphere. The regeneration thus enables a doubling of the reduction in CO<sub>2</sub> equivalent emissions. In detail, the emissions saved for each kg of SF<sub>6</sub> not produced from new (because regenerated gas is purchased) are between 3 and 8% (average loss rates for production plants) whilst those saved for each kg of SF<sub>6</sub> not sent for thermal destruction are between 2 and 4% (average loss rates for thermal destruction plants). The average between non-production of new gas and the non-destruction of used gas, for each kg of SF<sub>6</sub> gas, is 8.5% (5.5% + 3%).

During the two-year period 2021-2022, Terna regenerated approximately 16,000 kg of SF<sub>6</sub> gas, preventing the leakage into the atmosphere of approximately 1,360 kg (resulting from the sum of the leakage during production of new gas and the disposal of disused gas) which, based on the 8.5% average between non-production and non-destruction, amounts to **31,008.00 tonnes of CO<sub>2</sub> equivalent avoided** (1,360 kg x 22,800 GWP = 31,008.00 kg = 31,008.00 tonnes CO<sub>2</sub> eq.) The emissions prevented correspond with those emitted in a year by approximately 6,600 diesel fuel vehicles.

In the Circular Economy Roadmap, Terna has set a target of regenerating 42,000 kg of SF<sub>6</sub> gas by 2025. The target has been calculated considering the average quantity of gas regenerated annually to meet with Terna's needs, i.e., the kilograms of SF<sub>6</sub> gas disposed of.

SASB

## Use of resources and waste management

Development and maintenance of the NTG requires a substantial amount of capital goods, such as power lines (pylons, conductors, insulators), transformer substations (transformers, circuit breakers, other equipment) and control systems.

Terna does not use raw materials, but does purchase finished products (electrical equipment, conductors, tools and other components). An estimate of the materials contained in the main products purchased is shown in the table below. Amounts have been estimated considering the average material content of the various products purchased in the years referred to. The bulk of the materials used are steel (pylons) and aluminium and copper (conductors and cables).

### 301-1 > Main materials provided by suppliers – tonnes

	TERNA		
	2022	2021	2020
Steel	32,527	20,793	18,264
Copper	13,205	9,475	4,967
Aluminium	8,695	8,988	11,526
Glass	3,805	4,324	4,339
Dielectric oil	1,096	1,656	591
<i>Of which vegetable oil</i>	304	491	243
Porcelain	466	518	891
Polymers	293	508	492

Specifically, the increase in steel and copper related to line supply reflects the purchase of greater quantities of steelwork and tubular supports (steel) and copper rope (copper) for substations during the year under review. Most of the materials supplied to Terna are not renewable or cannot be regenerated quickly. For this reason, Terna is committed to ensuring that its supply chain is as far as possible based on a circular approach.



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# FOCUS

## Use of secondary raw materials: the contribution of the supply chain to Terna's circularity



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In line with its growing attention to circularity, Terna conducted a market survey focused on identifying economic operators – subject to a preliminary qualification process (see page 200) – able to provide goods with high environmental performance related to the supply of overhead power lines and terrestrial cables for installation.

In particular, the product groups represented in the surveys are:

- HV cables (“High Voltage”) insulated with XLPE elastomers;
- LV cables (“Low Voltage”) insulated with fire retardant PVC;
- ground wires with fibre optic for HV overhead lines;
- metal conductors for HV overhead lines;
- HV equipment and terminal blocks;
- tempered glass insulators for HV overhead lines;
- 132-380 kV single-shaft tubular supports;
- steel pylons for HV 380/220/150 KV and/or MV (Medium Voltage) lines and portals.

The research was focused on measuring the use of secondary raw materials by suppliers belonging to sectors selected based on the raw material used. This helps to identify the production waste or materials deriving from recycling processes that can be input again into the economic system as raw materials.

The sample analysed consists of 28 companies, in some cases belonging to various product groups, with an overall result of 34 answers.

72% state that they use secondary raw materials or those with a high proportion of recycled content. Combining the data, the most significant results are obtained in the category HV equipment and terminal blocks, which reaches 64% usage of secondary raw materials.

Results greater than 50% are obtained in the categories Steel pylons for HV 380/220/150 KV and/or MV lines and portals and LV cables insulated with fire retardant PVC. The figure stops at 40% in Metal conductors for HV overhead lines due to technical reasons related to the electrical performance of the conductors. It is a different matter for the supply of pylons: in this case, the constraint is mechanical, for which it is likely that in the medium-long term alternative solutions can be found.

In line with the ambitions set out in the Circular Economy Roadmap, the new contracts awarded to meet demand in 2023-2025 will consider, among the tender criteria, assessment of the circularity of suppliers and the certified use of recycled steel and aluminium to encourage virtuous behaviour.

303-1 > Regarding water consumption<sup>97</sup>, environmental and materiality analyses indicate that the issue is not significant. This is because water does not usually form part of the production cycle for electricity transmission and dispatching. This is except for a few items of equipment, mostly used in the installation phase, that, in any event, require overall consumption of a marginal volume of water compared with the volumes generally recorded in the electric utilities sector. Indeed, water is used for hygiene purposes, office cleaning and cooling systems and derives from connection to water systems for civil use.

Moreover, in recent years, Terna has introduced compensation systems (Synchronous Compensation Units or SCUs) as one way of responding to evolutions in the electricity system in terms of the integration of production plants fuelled by renewables and new connections to the DC grid. These plants play a key role in regulating voltage in the portion of the grid where they are installed.

In order to ensure the correct use of water, Terna has installed intelligent systems that, by recording internal and external temperatures and the electrical readings from the SCUs, regulate the flow of water, thus minimising consumption. Partly due to these interventions, the amount of water used to cool the synchronous compensators accounts for only 4% of Terna's total water consumption.

### 306-1 > Waste

At the end of their normal life cycle, the materials used in electricity infrastructure are recovered for reuse in operations. Only a residual portion is sent to landfill, thereby impacting on the environment.

306-2 > **The percentage of waste recovered amounted to 91%** (86% in 2021 and 95% in 2020), **89% if Brugg and Tamini are also included** (84% in 2021).

Whilst the overall amount of waste produced reflects the timing of equipment replacements, effectual recovery depends on the materials contained in the waste: some of them are easy to separate out and thus reuse (for example, iron parts of pylons). In other cases, it is either too costly or not possible to separate the various parts, above all when dealing with the most obsolete equipment. For these reasons, annual changes in the amount of waste generated and the percentage of waste recycles should not be interpreted as indicating a trend. Monitoring of the waste generated and the means of waste management employed are audited both internally and externally as per ISO 14001 certification requirements, as are the methods of waste disposal, to ensure compliance with existing legislation.

<sup>97</sup> In 2022, the Group consumed 221,395 m<sup>3</sup> of water (in 2021 210,269 m<sup>3</sup> and in 2020 219,065 m<sup>3</sup>), whilst Terna consumed 190,950 m<sup>3</sup> (183,807 m<sup>3</sup> in 2021 and 192,635 m<sup>3</sup> in 2020).

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**Waste type and management- tonnes**

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	UNIT	GROUP (*)			TERNA		
		2022	2021	2020	2022	2021	2020
<b>Waste produced <sup>(1)</sup></b>	tonnes	<b>12,356.8</b>	11,768.8	10,808.6	<b>9,078.7</b>	8,524.7	6,142.2
<b>Waste sent for recovery</b>		<b>10,948.3</b>	9,927.8	9,929.9	<b>8,281.3</b>	7,302.4	5,854.1
<b>Waste recovered</b>	%	<b>89</b>	84	92	<b>91</b>	86	95
<b>Waste sent for disposal <sup>(2)</sup></b>		<b>1,338.6</b>	1,828.8	905.5	<b>823.0</b>	1,210.1	314.8
Of which hazardous		583.1	980.3	265.4	517.9	910.6	237.2
Of which non-hazardous		517.9	848.4	640.0	305.1	299.5	77.5
<b>Non-hazardous special waste</b>							
<i>Machinery, equipment, pylons, conductors, cables</i>							
- quantity produced	tonnes	3,826.6	3,725.2	4,737.7	2,020.8	1,901.5	1,582.4
- quantity sent for recovery	tonnes	3,776.3	3,722.8	4,791.0	1,970.5	1,899.1	1,635.7
<i>Packaging</i>							
- quantity produced	tonnes	1,319.5	1,360.7	1,133.1	537.9	521.0	418.8
- quantity sent for recovery	tonnes	950.2	1,047.7	890.3	518.5	527.1	431.0
<i>Other</i>							
- quantity produced	tonnes	1,093.3	833.7	786.0	633.7	603.7	258.9
- quantity sent for recovery	tonnes	632.7	294.2	402.1	369.0	293.3	182.5
<b>Total non-hazardous special waste</b>							
- quantity produced	tonnes	6,239.5	5,967.4	6,656.9	3,192.5	3,073.3	2,260.2
- quantity sent for recovery <sup>(3)</sup>	tonnes	5,359.2	5,112.5	6,083.4	2,858.0	2,767.3	2,249.2
<b>Hazardous special waste</b>							
<i>Machinery, equipment, pylons, conductors, cables</i>							
- quantity produced	tonnes	4,133.0	3,404.7	2,865.4	4,104.3	3,292.8	2,745.0
- quantity sent for recovery	tonnes	3,998.6	3,505.9	2,796.9	3,970.1	3,393.9	2,676.5
<i>Oils</i>							
- quantity produced	tonnes	1,740.7	2,100.6	1,062.7	1,589.9	1,922.9	913.7
- quantity sent for recovery	tonnes	1,521.7	1,196.8	957.9	1,401.2	1,040.2	853.0
<i>Lead batteries</i>							
- quantity produced	tonnes	16.0	56.1	28.4	15.4	56.1	28.4
- quantity sent for recovery	tonnes	16.4	55.6	23.6	15.8	55.6	23.6
<i>Waste comprising material containing asbestos</i>							
- quantity produced	tonnes	0.0	0.0	0.0	0.0	0.0	0.0
<i>Other</i>							
- quantity produced	tonnes	227.6	240.0	215.4	176.6	179.6	195.0
- quantity sent for recovery	tonnes	52.5	57.0	68.2	36.2	45.3	51.9
<b>Total hazardous special waste</b>							
- quantity produced	tonnes	6,117.3	5,801.3	4,171.9	5,886.2	5,451.4	3,882.1
- quantity sent for recovery	tonnes	5,589.2	4,815.3	3,846.5	5,423.3	4,535.1	3,604.9

(\*) The figures shown in the column Group in this table regard Terna, the Tamini Group and Brugg.

<sup>(1)</sup> Only special waste produced during the production processes is included, not waste produced by services (urban waste). Excavated earth and rocks, effluents and waste from septic tanks, produced by substations not connected to the sewer network, are not included; the quantity for this waste was 184 tonnes in 2022, 618 tonnes in 2021 and 495 tonnes in 2020.

<sup>(2)</sup> Waste sent for disposal may differ from the mere disparity between waste generated and recovered due to temporary waste storage.

<sup>(3)</sup> This comprises uncontaminated metal waste deriving from the decommissioning of transformers, electrical equipment and machinery (e.g., generators) with an average recovery rate of 100%.

The main special hazardous waste generated by the operation of Terna's power lines and substations consists of:

## Metal waste

This derives from the decommissioning of transformers, electrical equipment and machinery no longer in use and contaminated by hazardous substances; they have an average recovery rate - after treatment by third parties - of over 95%.

## Batteries (lead and nickel)

In the event of a blackout, batteries enable emergency generators to be switched on in order to keep the energy transformation and transportation service up and running during emergencies; they have an average recovery rate of 100%.

## Dielectric oils

These are used for insulating transformers replaced after periodic maintenance checks. They constitute hazardous waste and have a recovery rate in the three-year period of over 90%.

The waste sent for disposal mainly consists of materials deriving from infrastructure maintenance and cleaning activities (oily emulsions and rags containing solvent oils) and insulating materials containing asbestos, for which no form of recovery is envisaged.

As in the previous two-year period, no significant spills of polluting liquids were reported in 2022.





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# Landscape and biodiversity

Operating with an approach based on environmental sustainability guides all Terna's activities, especially in the construction of new electrical infrastructure which, in all phases (planning and consultation, design, site operations, mitigation and offsetting), takes into account considerations that include respect for the environment and biodiversity. This commitment, in 2022, was reflected in the development of guidelines consistent with the Envision criteria, the international protocol which, through a structured rating system, measures, confirms and certifies the sustainability of new infrastructure (see page 249).

Specifically, during the execution phase at sites, great attention is paid to identifying the areas and access roads of sites which, if compatible with technical and design requirements, are in areas of reduced natural importance. Upon completion of the construction work, Terna restores the areas concerned to their natural state.

If these areas regard natural or semi-natural habitats, in addition to the normal restoration works, specific interventions are implemented. Based on natural engineering techniques, they involve, by way of example, the creation of habitats – land and sea – suitable for animal and/or plant species communities, the replanting of live native plants, which do not require irrigation, special fertilisation or the use of materials (even if only inert), in order to recreate favourable living conditions for animal species, which are monitored overtime by applying the **Incremental Ecological Indicator (IEI)**<sup>98</sup> criteria.

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During 2022, the IEI methodological approach led to the establishment of a **Base Indicator** that assesses, site by site, how the ecological status changes and a **Dynamic Indicator** that measures this change over time for each individual site, whilst also providing a global indication of the changes taking place at all the sites in general. The method, as a whole, and in the various indicators, was registered as Intellectual Property (SIAE 2022/02452) during the year.

## Protecting local areas and respecting the landscape

Physical removal of existing lines is one of the most radical ways Terna reduces environmental impacts, also in terms of land use. Demolitions form part of upgrade initiatives<sup>99</sup>, often resulting from agreements signed with local authorities during the consultation phase prior to the construction of new infrastructure.

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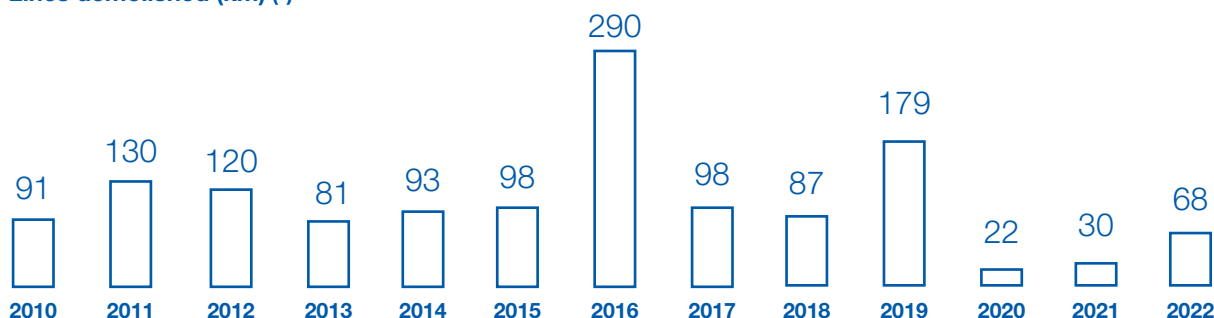
In 2022 68 km of lines were demolished, freeing up an area equal to 245 hectares. In the period 2010-2022, a total of 1,388 km of lines were demolished, freeing up approximately 5,000 hectares of land. Demolition is defined as the physical removal of overhead lines and does not include declassified or upgraded lines<sup>100</sup>.

<sup>98</sup> See the 2020 Sustainability Report page 211 and 2021 Integrated Report page 234.

<sup>99</sup> This comprises complex initiatives involving several components of the grid, replacing certain components with others of a superior type, thereby eliminating parts of the grid that are of little use. This takes place following the installation of new infrastructure or the addition of new elements to the grid to avoid the need to upgrade power lines that have reached saturation point.

<sup>100</sup> A reclassification involves the conversion of existing power lines to a higher voltage through the installation of new conductors and pylons to replace existing ones, which may be larger in size and therefore take up more space. Unlike the construction of a new line, this type of intervention usually has the advantage of using existing infrastructure corridors, thus avoiding the occupation of additional land.

Lines demolished (km) (\*)



(\*) The figure for 2016 is exceptional due to the demolition of over 200 km of obsolete power lines in Valtellina, which had been in preparation in previous years. After adjusting for this removal, demolitions amounted to approximately 80 km, in line with previous years (around 100 km per year). The exceptional performance in 2019 was due to a speedier execution of programmes that year, with a consequent reduction in the targets for 2020 and 2021.

“Transmission impacts” target - KPIs and targets in the 2021-2025 Industrial Plan KPI



VISUAL IMPACT	TARGET				
	2022		2023	2024	2025
	TARGET	RESULT			
Km of overhead lines demolished during the year.	73	68	102	29	191
Km of new underground lines during the year.	158	72	247	110	342

NT1  
NT2  
EU13 >

Electricity power lines, biodiversity and birdlife



The impact of Terna’s electricity grid on biodiversity may take different forms.

During power line construction, the impact on biodiversity is linked to construction site activities (e.g., the opening of access routes to build pylons, soil excavation and the removal of residual materials) and is temporary and reversible.

During the operational phase, the potential impact of lines on biodiversity are twofold. On the one hand, the route of the line may be a factor in increasing biodiversity and protecting certain species as pylons, with their bases, make it impossible for land to be used for intensive agriculture and constitute islands where biodiversity can flourish. On the other, the presence of lines has potentially negative effects on biodiversity, on birds, due to the risk of collision– the risk of electrocution regards LV and MV lines and, therefore, does not concern Terna’s infrastructure – protected areas or areas of natural interest.

Over the years, Terna has promoted research and scientific studies to further investigate this issue and identify increasingly effective solutions. The first Italian study devoted to collisions, based on the results of an **agreement between Terna and LIPU<sup>101</sup> (the Italian League for the Protection of Birds)**, highlights a low risk of collision<sup>102</sup>. Despite the risk of collision being low, Terna still minimizes it by installing special devices consisting of plastic spirals called deterrents which, with their visual impact and the noise they generate when blown by the wind, make it easier to see for birds in flight.

<sup>101</sup> Italian League for the Protection of Birds.

<sup>102</sup> See the 2010 Sustainability Report, page 116 *Terna-LIPU agreement: a study of the interaction between birdlife and the National Transmission Grid*.

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### Bird deterrents on the NTG

	UNIT	TERNA		
		2022	2021	2020
Lines involved	n.°	88	81	77
Total deterrents installed	n.°	17,445	16,977	16,299

The main tool for identifying critical line sections is a fully comprehensive land use database, containing data provided by regional authorities and ministries. This GIS (Geographic Information System) enables integrated analysis of all the layers of information on the various types of land use and protections (local, natural, cultural, landscape, etc.). Using this tool, Terna has compiled an inventory of the lines that may interfere with protected or highly biodiverse areas, as shown in the table below.

### Power lines in protected areas (\*) (\*\*)

	UNIT	TERNA		
		2022	2021	2020
Lines impacting on protected areas	km	6,830	7,110	6,951
Lines with an impact as a percentage of total lines operated by Terna	%	9.3	10.5	10.6

(\*) To calculate the percentage of lines and number of substations with an impact, the Company used the SisNet database (2023 data). Until the 2021 reporting period, the ATLARETE database was used, which could have differed from data on the number of lines provided in the "Key indicator tables" (published in the Sustainability section of the website at [www.terna.it](http://www.terna.it)).

(\*\*) For the sake of completeness, it should be noted that out of the 901 substations managed by the Terna Group, only 37 are located in protected areas.

Based on GIS data, potential threats from the risk of collision for bird species included in the IUNC Red List have been assessed. The IUCN Red List is the largest existing international database on the conservation status of thousands of plant and animal species, all catalogued according to their risk of extinction. In its analysis, Terna has specifically considered the presence of bird species on the IUCN Red List and at Natura 2000<sup>103</sup> namely in protected areas with a high level of biodiversity (approximately 3,000 Special Conservation Areas (SCAs<sup>104</sup>) and Sites of Community Importance (SCIs<sup>105</sup>).

In collaboration with the CESI research centre<sup>106</sup> and Rome's *La Sapienza* University (the Charles Darwin Department of Biology and Biotechnologies), Terna has developed a **risk assessment model** that evaluates the feasibility of installing a power line in a selected location. This tool (AVIVAL) uses information about the area and data on the distribution of birdlife to assign a risk level in terms of potential collision to every single span of the line to be built and adopt adequate mitigation measures. In 2021, the eight-month experiment – coinciding with two migrations – tested the reliability of the deterrents and subsequent monitoring has confirmed the absence of collisions.

In line with specific EU Directives, Terna has enshrined the objectives to protect and conserve birdlife in its own **Commitment to Diversity** document. Accordingly, since 2020 Terna has carried out a training campaign to protect birdlife designed specifically for operating personnel involved in managing the national electricity system, in order to raise awareness on the part of staff and to collect additional scientific data concerning the system's impact on birdlife.

<sup>103</sup> Natura 2000 is the main instrument of the European Union's biodiversity conservation policy. This ecological network, which covers the entire territory of the European Union, was set up under the Habitats Directive (Council Directive 92/43/EEC) to ensure the long-term maintenance of natural habitats and of endangered or rare species of flora and fauna at EU level. The Natura 2000 network consists of Sites of Community Importance (SCIs), identified by Member States in accordance with the Habitats Directive, which are subsequently designated as Special Areas of Conservation (SACs), including Special Protection Areas (SPAs) established under Directive 2009/14/EC regarding the conservation of wild birds.

<sup>104</sup> Special Conservation Areas.

<sup>105</sup> Sites of Community Importance.

<sup>106</sup> Italian Electrotechnical Research Centre.

## 304-4 &gt; Identification and monitoring of bird species on the IUCN Red List

Terna has carried out a study aimed at identifying the protected species included in the IUCN Red List<sup>107</sup> that are potentially impacted by its infrastructure.

The study selected the Natura 2000 areas affected by Terna power lines, then verified which protected species – among those included on the Red List and classified based on 2020 data available, as Vulnerable, Endangered, Critically Endangered and Regionally Extinct – had chosen them as their habitat. These species are conservation priorities as without specific measures to neutralise the threats they face, and in some cases to increase their populations, their extinction is a real prospect. The analysis showed that Terna's electricity infrastructure could interfere with the habitats of eight endangered species. After checking scientific publications and via targeted consultations, no specific critical issue emerged regarding bird species except for a potential risk of collision for the corncrake (*Crex crex*), a species categorised as *Vulnerable* present in the Alpine area between Friuli-Venezia Giulia and Lombardy. For this reason, a specific study on the ecology of this species was conducted. The study highlighted that the corncrake is only occasionally reported among the victims of collision. In a previous review of the conflict between birds and power lines in Italy, this species never appeared among those listed and there is no other information on corncrake collisions in western Europe.

## Alternative uses for power lines

In partnership with environmental associations, for some years Terna has been working on projects that aim to develop alternative uses for power lines. The most important, carried out in collaboration with the ornithological association, *Ornis italica*, is the *Nests among pylons* project. This involves the installation of nest boxes, followed by annual surveys of the species that occupy the nests and the results of the breeding season. The project regards many species, including the kestrel, peregrine falcon, scops owl, cuckoo, common roller, bat and stork. The contract awarded by Terna for installation of new nest boxes now includes responsibility for monitoring occupation of the new nests. This activity is completed with the *Birdcam Project*, involving the installation of cameras trained upon the artificial nests: the idea is to monitor the birds' reproductive period (online at [www.birdcam.it](http://www.birdcam.it) and on Terna's website at [www.terna.it](http://www.terna.it)).

In 2021, Terna launched a nationwide monitoring campaign to monitor the conditions of the nest boxes installed in past years so as to extend its maintenance programme and include the insertion of artificial nests.

### Georeferenced nests at 31 December 2022

LOCATION	NESTS		SPECIES CONCERNED <sup>108</sup>
	NUMBER OF NESTS (*)	OF WHICH IN PROTECTED AREAS	
Abruzzo	25	1	Kestrel
Calabria	25	18	Kestrel
Campania	31	0	
Emilia-Romagna	40	10	Kestrel; scops owl, cuckoo, common roller
Tuscany	1	0	
Friuli-Venezia Giulia	20	0	
Lazio	35	7	Kestrel, scops owl, common roller
Lombardy	0	0	
Piedmont	24	12	Common roller
Puglia	19	0	
Sicily	24	9	
Trentino-Alto Adige	0	0	
Veneto	1	1	
<b>Total</b>	<b>254</b>	<b>58</b>	

(\*) It should be noted that the number of nest boxes installed has fallen following the outcome of the national monitoring conducted in 2021 which, for many of them, resulted in a state of decay from weather events. The missing boxes will be replaced during 2023.

<sup>107</sup> International Union for Conservation of Nature's Red List (<https://www.iucnredlist.org>).

<sup>108</sup> The species concerned are identified by the type of nest installed and by subsequent monitoring. At any rate, there is always the possibility that the nests may be used by other species not on the list.

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## New environmentally responsible initiatives

During 2022, Terna launched a new environmentally responsible project, called **Biodotti**, which consists of a series of renaturing measures for areas underlying pylons to increase the ecological value of landscapes. Terna completed the pilot project in Lombardy, Tuscany and Sicily involving a total of 17 pylons in agricultural areas and 5 overhead power lines that can thus act as an ecological connection between renatured areas.

In this way, Terna's power lines serve as real stepping stones that facilitate bird movement between natural areas, further enhancing biodiversity. The project involves the monitoring of the installations made during 2022, measuring the effectiveness of the initiatives in raising the ecological quality of the areas and the stepping stone function through the **Incremental Ecological Indicator** (see page 279).

Terna also took part, as a partner, in the candidature of the **PolliNetwork** project for the *Life Nature and Biodiversity 2022*, with the aim of protecting pollinators. The project aims to establish and trial new sustainable methods to improve the management of the environment, with the goal of helping to halt the decline of pollinators. The leader of Life is WWF Italy. The other participants in the initiative are ISPRA, ANAS, RFI, Copagri, Parco del Gran Paradiso, University of Bologna and University of Turin.

Terna supported WWF Italy in preparing materials required to present the project. Terna's main actions include experimentation of methods and tools to manage and maintain the environment in the areas around electricity substations and below power lines, in areas specifically identified. The project is currently being assessed by the European Commission.

## FOCUS

### Laying submarine cables and protecting marine biodiversity



Laying submarine cables, for Terna, always requires the accompanying search for solutions to protect marine biodiversity, in particular the Posidonia oceanic meadows – a prioritised habitat of the Mediterranean infralittoral plane, which serves as a habitat for numerous animal and vegetal organisms – at risk of erosion due to the oscillating movements of the cable laid on the seabed (see the 2009 Sustainability Report, page 107).

During 2022, in combination with the beginning of preparations for instalment of the submarine section (34 km out of a total of approximately 37 km) of the connector between the island of Elba and the mainland, Terna initiated the transplant and repositioning of approximately 53,000 cuttings in the Posidonia oceanic meadows in the Gulf of Follonica, covering a surface area of over 1,540m<sup>2</sup>.

This first phase involves the removal of the cuttings from the sea meadow adjacent to Piombino and their subsequent repositioning to appropriate locations in the Gulf of Follonica, with a planting system that uses specific netted frames. When the removal is completed, which will take three months, the next environmental conservation and monitoring plan will begin. The plan will last ten years, with work taking place every quarter for the first two years and then less frequently.

## Monitoring and supervision of electromagnetic fields



Protection of the population from exposure to electromagnetic fields is precisely defined by law (Cabinet Office Decree of 8 July 2003). This legislation provides for:

- **exposure limits:** In the event of exposure to electric and magnetic fields generated by power lines at a frequency of 50 Hz, the limit is 100 microteslas for magnetic induction and 5 kV/m for the electric field, considered as effective values;
- **safety thresholds:** As a precautionary measure to protect against long-term effects, which may be linked to exposure to magnetic fields generated by the network frequency (50 Hz), in children's play areas, schools and places where people spend not less than four hours a day, a threshold of 10 microteslas has been set for magnetic induction, based on the average of measurements taken over 24 hours under normal operating conditions;
- **quality targets:** In the design of new power lines at the above-mentioned sensitive locations and in the design of new settlements and new areas close to lines and electricity installations already present in the vicinity, in order to gradually minimise exposure to electrical and magnetic fields generated by power lines operating at a frequency of 50 Hz, a quality target of 3 microteslas has been set for magnetic induction, based on the average of measurements taken over 24 hours under normal operating conditions.

The values of the three parameters, especially the threshold value (10 microteslas) and the quality target (3 microteslas), demonstrate that Italian legislation has adopted the prudential approach described in art. 15 of the Rio Principles. These parameters are amongst the strictest at European level. Terna's compliance with the law in its activities implicitly shows that it has adopted the same principle.

Terna carries out inspections and checks on its own lines to ensure compliance with the existing regulatory limits and seeks innovative technical solutions to mitigate the impact of magnetic fields. If any complaints or requests are received from competent administrative bodies and authorities, the Company provides the data needed to assess the actual exposure to electric and magnetic fields generated by its infrastructure.

Finally, with a view to providing accurate, easily understandable information on the subject, Terna has prepared an in-depth study on electromagnetic fields (EMF), which may be found in the "Sustainability" section of the Company's website [www.terna.it](http://www.terna.it).

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## Reports and complaints regarding environmental concerns

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In line with the ISO 14001 Environmental Management System and the ISO 37301 Compliance Management System, Terna monitors and classifies complaints received regarding significant environmental matters.

Any written communication from stakeholders reporting that an activity carried out by Terna causes or has caused damage may be submitted to one of the Group's offices or organisational units, where it will be filed and handled by the competent operating unit.

Complaints received are classified in terms of environmental aspects as defined by environmental analysis: waste, noise, biodiversity, landscape, electrical and magnetic fields, lighting, the management of vegetation and others.

This year, the number of complaints received has dropped slightly with respect to 2021 (down 5, making a total of 30) and primarily regarded power lines (90%) relating to **the noise emitted by the infrastructure (36.7%) and the need to cut back vegetation along power line corridors (16.7%)**.

Terna replies as soon as possible, and, in any event, within 30 days from receipt of the request or within 60 days if the scope and complexity of a request are such that it cannot be handled within the first 30 days.

In this case, Terna promptly notifies the person making the request of the extension and explains why it is necessary. Details of the concerns reported and dealt with over the past three years are published in the "Indicator Tables", available on the website [www.terna.it](http://www.terna.it) in the section "General Archive".



# Environmental costs



Terna's commitment to the environment is reflected in the costs incurred for environmental reasons, in terms of both capital expenditure and operating costs. Separate representation of environmental costs is based on the definitions set out below, through aggregating information derived from the Company's general and management accounting. These definitions and the methodology described below are taken from the Terna Group's operating guidelines.

## Accounting methodology

The identification of environmental costs is based primarily on available definitions, primarily those of ISTAT (Italy's Office for National Statistics), Eurostat and GRI, as well as the European Commission Recommendation on the recognition, measurement and disclosure of environmental data in annual accounts and annual reports (Recommendation 2001/453/CE). According to this Recommendation, **the term *environmental expenditure* includes the costs of initiatives undertaken by a company, directly or via third parties, to prevent, reduce or repair damage to the environment caused by its operating activities.**

Secondly, the relevant definitions have been cross-referenced with the environmental aspects evaluated as being significant (e.g., substation noise, electromagnetic fields, etc.) within the Company's ISO 14001 certified Environmental Management System, to identify Terna's environmentally relevant operating and capital expenditure activities within the main business processes.

Many of Terna's activities described in this Report entail environmental expenditure. However, certain limitations have been introduced in determining the scope of the reporting:

- the exclusion of integrated costs, namely those related to activities that have no exclusively environmental purpose (e.g., the use of pylons with innovative characteristics, also in terms of how well they blend into their surroundings) due to the subjective nature of accounting for environmental components only;
- the exclusion of additional costs linked to the consideration of environmental constraints and demands when planning and designing new lines (re-routings and sections of cable laid underground).

Additional conditions were also imposed if costs were significant, consistent with annual accounting requirements (a clear distinction between operating costs and capital expenditure) and directly measurable based on the Company's existing accounting system. The latter condition meets the need to minimise the use of estimates based on non-accounting procedures.



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## Capital expenditure and operating costs

The table below provides the best possible view of Terna's capital expenditure and operating costs in relation to the environment.

It should be noted that these costs exclude expenses relating to internal sources and only consider the cost of external supplies. An exception is the item "Environmental activities – Existing plant", which does include the cost of internal personnel.

Based on the methodology adopted and the footnotes to the table, it should be noted that the environmental costs shown represent a subset of the total environmental costs actually incurred, as defined above.

### Environmental costs - Capital expenditure and operating costs (€m)

	TERNA		
	2022	2021	2020
Capital expenditure			
Environmental activities – existing plant <sup>(1)</sup>	6.3	7.2	6.0
Environmental activities – new plant <sup>(2)</sup>	7.1	6.7	5.5
Environmental impact studies <sup>(3)</sup>	5.2	5.3	3.9
Environmental offsets <sup>(4)</sup>	4.3	2.6	1.6
Demolitions <sup>(5)</sup>	3.4	1.6	1.3
<b>Total capital expenditure</b>	<b>26.3</b>	<b>23.4</b>	<b>18.3</b>
Costs			
Cost of environmental activities <sup>(6)</sup>	26.0	25.2	26.8
<b>Total operating costs</b>	<b>26.0</b>	<b>25.2</b>	<b>26.8</b>

<sup>1)</sup> **Environmental activities – existing plant:** These are the costs of upgrading plants to comply with new legal requirements and regulations in the environmental field (e.g., noise and visual and landscape aspects).

<sup>2)</sup> **Environmental activities – new plant:** The amount shown is an estimated figure. Based on an analysis of certain large investment projects, it has been found that at least 1% of total project costs correspond to environmental items, usually deriving from regulatory requirements (for example, tree screens, noise barriers, the installation of bird deterrents, environmental monitoring, testing of excavated soil and rocks). Therefore, a value of 1% of the capital expenditure costs for projects with similar characteristics has been taken into account.

<sup>3)</sup> **Environmental impact studies:** These relate to plants provided for in the Grid Development Plan that are under construction or awaiting the necessary consents from the competent authorities.

<sup>4)</sup> **Environmental offsets:** These are amounts allocated to offset the works provided for in the Grid Development Plan, as identified by specific agreements signed with local authorities. Compared with the information published in the 2020 Sustainability Report, the figure for 2020 has fallen from €5.5m to €1.6m following a final assessment of the scope of compensatory works.

<sup>5)</sup> **Demolitions:** This is the cost of the final decommissioning of power lines as part of rationalisation programmes.

<sup>6)</sup> **Cost of environmental activities:** this regards vegetation management, grass cutting, waste management and demolition/decommissioning activities, which represent small amounts and are not included under investment. These cost items, which are directly identifiable within the management accounts, do not cover all operating costs, but do comprise the majority of such costs.





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# 6

## Information on the NFS

# Methodological note

The Terna Group's consolidated non-financial statement has been prepared in compliance with the provisions of Legislative Decree 254/2016, as amended. It contains disclosures on the matters deemed material and provided for in art. 3 of the above Decree, to the extent necessary to enable readers to gain an understanding of the Group's activities, its performance, results and impacts. In the paragraph on the "The EU taxonomy", the NFS also includes the disclosures required by the taxonomy, as provided for in Regulation (EU) 852/20.

2-3 > The NFS, prepared using the new GRI reporting standards *in accordance with* version, provides a complete picture of the most significant impact generated by Terna on the economy, the environment and people, including its impact on human rights. The NFS also highlights how the impacts are managed by the Company to deliver its contribution to sustainable development.

2-5 > The document was subject to a limited assurance by Deloitte & Touche S.p.A., resulting in a specific *Assurance report*, as required by the provisions of articles 3 and 4 of Legislative Decree 254/16. The opinion of the auditing firm and the related assurance activities did not concern the disclosure relating to the *material performance indicators envisaged in the supplement for the Electric Utility sector (GRI - EUSS), the other published GRI performance indicators* reported on page 301, the Key indicator tables, published in the *Sustainability* section in the general archive of the website at [www.terna.it](http://www.terna.it) or the "The EU taxonomy" disclosures.

The following table shows the content of the disclosures required by the Decree and their position in the Integrated Report. This content, together with the EU taxonomy disclosures, constitute the Group's 2022 NFS and are appropriately indicated using the abbreviation **NFS**.

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### Compliance with Legislative Decree 254/2016

LEGISLATIVE DECREE 254/2016 SCOPE	MATERIAL TOPIC FOR TERNA	PARAGRAPHS OF THE REPORT RELATING TO THE NFS	GRI TOPIC STANDARDS / EUSS
<b>ENVIRONMENT</b>	Environmental impact of electricity infrastructure on local areas	<ul style="list-style-type: none"> <li>Protecting local areas and respecting the landscape</li> <li>Electricity power lines, biodiversity and birdlife</li> </ul>	304-1; 413-2 EU13; EU22
	Reducing the Group's CO <sub>2</sub> emissions	<ul style="list-style-type: none"> <li>Opportunities and risks connected with climate change</li> <li>Energy consumption and cuts in emissions: energy efficiency</li> <li>Atmospheric emissions</li> <li>Direct CO<sub>2</sub> emissions (scope 1)</li> <li>Indirect CO<sub>2</sub> emissions (scope 2)</li> <li>Other indirect CO<sub>2</sub> emissions (scope 3)</li> <li>Summary of indirect and direct emissions: carbon intensity</li> <li>SF<sub>6</sub> gas management</li> <li>Grid losses</li> </ul>	201-2; 302-1; 302-3 305-1; 305-2; 305-3 305-4; 305-5; EU12
	Delivering the energy transition	<ul style="list-style-type: none"> <li>Opportunities and risks connected with climate change</li> <li>The Group's capital expenditure</li> <li>Atmospheric emissions</li> <li>Direct CO<sub>2</sub> emissions (scope 1)</li> <li>Indirect CO<sub>2</sub> emissions (scope 2)</li> <li>Summary of indirect and direct emissions: carbon intensity</li> </ul>	201-2; 203-1; 302-1 302-3; 305-1; 305-2 305-3; 305-4; 305-5
<b>SOCIAL</b>	Quality, security and continuity of the electricity service	<ul style="list-style-type: none"> <li>Electricity transmission</li> <li>Changes in the dimensions of the NTG</li> <li>Continuity and quality of service</li> </ul>	EU3; EU4 EU28; EU29
	Management of stakeholder relations	<ul style="list-style-type: none"> <li>Dialogue with local communities</li> <li>Protecting local areas and respecting the landscape</li> <li>Landowners affected by grid development</li> </ul>	413-1; 413-2; EU22
<b>WORKFORCE RELATED</b>	Workplace health and safety and workers' rights	<ul style="list-style-type: none"> <li>Health, safety and correct working practices</li> <li>Protecting employees' safety</li> <li>Company welfare and wellbeing</li> <li>Supply chain sustainability</li> <li>Occupational injuries</li> <li>Protecting workers' human rights at contractors' construction sites</li> </ul>	403-1; 403-2; 403-3 403-4 403-5; 403-6 403-7 403-9; EU17 EU18
	HR development and wellbeing	<ul style="list-style-type: none"> <li>Company welfare and wellbeing</li> <li>Workforce trends</li> <li>Industrial relations</li> <li>Training</li> <li>Recruitment, selection and development</li> <li>Generational turnover</li> </ul>	201-3; 401-1; 401-2 401-3; 402-1; 404-1 404-2; 404-3; EU15
	Advancement of inclusion and diversity	<ul style="list-style-type: none"> <li>Diversity and equal opportunities</li> <li>Employee overview</li> <li>Good business practices: respecting diversity, inclusion and wellbeing</li> </ul>	202-2; 405-1; 405-2 406-1
<b>RESPECT FOR HUMAN RIGHTS</b>	Sustainable supply chain	<ul style="list-style-type: none"> <li>Supply chain sustainability</li> <li>Qualification of suppliers and inspections</li> <li>Protecting workers' human rights at contractors' construction sites</li> </ul>	204-1; 308-1; 308-2 403-7; 407-1; 414-1 414-2; EU17; EU18
<b>TACKLING CORRUPTION</b>	Business integrity	<ul style="list-style-type: none"> <li>Tackling corruption</li> <li>Compliance</li> <li>Taxation</li> <li>Privacy</li> </ul>	205-1; 205-2; 205-3 206-1; 207-1; 207-2 207-3; 207-4; 418-1 EU25

## 2-2 > Scope of reporting and indicators

The 2022 NFS scope of reporting, which starting from 2021 is included in the Integrated Report (previously the Report on Operations), refers to the Terna Group, meaning the Parent Company, Terna S.p.A., and the subsidiaries consolidated on a line-by-line basis in the consolidated financial statements for the year ended and as at 31 December 2022.

Unless otherwise indicated, the following are excluded from the scope:

- the subsidiary, Avvenia;
- the LT Group, in which a 75% stake was acquired in October 2021,
- data referring to companies operating overseas.

Data regarding Avvenia, a subsidiary acquired in 2018 and controlled by Terna Energy Solutions, in turn a subsidiary of Terna, have not been consolidated given their limited significance in both the social aspect (17 staff at 31 December 2021) and the environmental aspect, in line with the environmental impact analyses for Avvenia completed in 2019.

Regarding the LT Group, which carries out different activities from Terna's core business, the most significant social data are reported in a dedicated section "Key indicator tables", published on the website at [www.terna.it](http://www.terna.it).

Environmental data regarding subsidiaries operating overseas have been consolidated in a comparable manner based on the type of impact and management model. In contrast, it was deemed preferable to report data on social aspects (e.g., accidents, easements) separately, given the significant differences in the respective related regulatory framework.

In terms of the Terna Group, as of this NFS – in order to progressively shift towards a "One Company" approach to presentation – the social and environmental data of the whole Brugg Group have been consolidated, together with the "Terna" electricity sector data (meaning Terna, Terna Rete Italia, Terna Plus and Terna Energy Solutions) and Tamini Group data (without taking into account employees in the United States and India). On the other hand, for the previous two years, 2021 and 2020, Group data refers to Terna, the Tamini Group and Brugg Switzerland, as it was not necessary to estimate them given their limited significance compared with the Group's figures.

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Regarding Terna (electricity sector), to guarantee the comparability of the 2022 data with that of the previous two years, the data related to the same sector published in the 2021 Integrated Report and the 2020 Sustainability Report have also been reported.

When the data reported in the section, "Human capital", refers to "Terna", it relates to 82% of the workforce, whilst when it refers to the Group it relates to 97% of the Group's workforce (meaning 100% of employees except those of Terna Crna Gora, the South American companies, Avenia and the LT Group). In terms of the Group's revenue, these percentages for "Terna" alone are 89% and when referring to the Group 98%.

As regards the data reported in the section, "Natural capital", on the other hand, when this refers to "Terna" it relates to 83% of the workforce, whilst when it refers to the Group it relates to 98% of the Group's workforce. In terms of the Group's revenue, these percentages for "Terna" alone are 89% and when referring to the Group 99%.

Finally, any changes to the data published in previous editions are appropriately highlighted in the document.

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In accordance with the materiality principle, data presented in the Report cover all companies having a significant impact on sustainability (e.g., in terms of size or personnel, potential impact on the environment and the community or the number of transactions/activities occurring during the year) and over which Terna directly or indirectly exercises control or has power to govern their financial and operating policies. There are no joint ventures, other subsidiaries or leased assets that might significantly influence the scope of compatibility of the environmental or social data.

2-12 >

# Materiality analysis: impact assessment

The updated 2022 materiality analysis conducted by Terna included, in addition to the regular analysis on the importance of topics, an assessment of the impact generated by the Group, in line with the new standard, GRI 3: Material Topics 2021.

3-1 >

In application of the new requirements introduced by the standard, Terna has developed an Impact Assessment Tool, a model to identify and assess impact (already used in the previous year and further refined for the 2022 analysis).

The analysis entails the identification of impacts linked to material topics as a first step, identifying approximately 90 (including positive, negative, current and potential impacts) and using the GRI indicators reported in the previous four years as its primary source. This phase consisted of desk activities, which regarded a due diligence of a series of documentary sources by assessing multiple elements (documents published by Terna in the previous annual reporting period; assessment of the main categories mapped in the business model of Terna's stakeholders, associating the corresponding stakeholder categories affected to each impact identified; a survey of the SDGs and Human Rights attributable to the impact). The impacts identified in the previous phase were then assessed based on the parameters provided by the new GRI 3 (*likelihood; scope; scale and irremediable character*). The assessment of overall materiality also considered the relation of each impact with any human rights (in the case of negative impacts) and SDGs (in the case of positive impacts).

The analysis also involved a phase dedicated to stakeholder engagement, which regarded two new activities, conducted for the first time this year:

- a new section of the online questionnaire, entirely dedicated to impact, in which participants were requested to rank the first five materiality topics, based on the significance of the related impact. In 2022, in addition to the stakeholder categories used in previous years (clients, local communities, distributors, suppliers, investors, media, representatives of opinion groups, employees), two new categories were involved: sustainability experts (from other businesses/organisations and European TSOs) selected to meet the new requirements of the GRI standard in question, and financial analysts.
- the establishment of six focus groups, during which an assessment was conducted on the list of impacts previously selected during desk activities (also identifying new impacts during the meeting) based on the parameters provided by the GRI 3 standard (*likelihood; scope; scale and irremediable character*). The in-depth assessments focused on various topic areas: territory, the environment, the supply chain, the community, employees, business performance and involved colleagues expert in the topics being assessed and constantly in contact with the affected stakeholder categories. These meetings played a significant part in validation of the preliminary assessment, prepared through the desk activities.



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The outcome of each activity has been processed and combined as input for the Impact Assessment Tool.

MATERIAL TOPIC	EXAMPLE OF IMPACT	REFERENCES
<b>Quality, security and continuity of the electricity service</b>	- Its positive impact regards the reliability and quality of the service, the subsequent reduction of outages thanks to adequacy of the grid and the implementation of prevention and management models. On the other hand, its negative impact takes into account the possibility of an increase in outages (e.g., congestion issues) linked to the grid's inadequacy.	119
<b>Grid resilience</b>	- Terna's actions can guarantee a reduction in outages for stakeholders through an investment plan able to ensure the adequacy of the grid, in the absence of which the increase in outages would have a significant impact on the community.	104
<b>Workplace health and safety and workers' rights</b>	- Oversight and promotion of an HSE culture among employees and throughout the supply chain could reduce work-related injuries and benefit the psychophysical wellbeing of personnel in terms of improved safety and confidence in the work environment. On the other hand, poor familiarity with the issue could instead result in an increase in the injury rate and an increase in unease caused by work-related stress.	218
<b>Reducing the Group's CO<sub>2</sub> emissions</b>	- Terna's commitment in terms of consumption efficiency and cutting emissions could reduce the Group's carbon footprint. Without this commitment, greenhouse gas emissions from Terna's operating activities could significantly increase.	259
<b>Delivering the energy transition</b>	- On one hand, the impact could result in a reduction in greenhouse gas emissions thanks to the growth in the connection of RES plants. On the other hand, below target growth in RES production could result in a delay in the phase-out of fossil fuels.	38

< 3-3

The connection of material topics with the categories of the Sustainability Accounting Standards Board (SASB) is available at this QR code.



# GRI indicator index

This section provides an index of the GRI Standards indicators reported in this DNF. Each Topic Specific Standard, where provided for, is linked with the relevant **Sustainable Development Goals** ("SDGs") and, in line with the value creation process over time (see page 52-53), also with **capital**. References to the pages of the Report have been included to facilitate retrieval of the information reported in response to the requirements of the Standards as well as any limitations and notes identified for specific indicators. Finally, it should be noted that the reference standards are those published in 2016 (any references to subsequent standards are clearly indicated in the table) and those related to the new edition of GRI 2021.

STATEMENT OF USE		TERNA REPORTED IN ACCORDANCE WITH GRI STANDARDS FOR THE PERIOD 1ST JANUARY – 31 DECEMBER 2022	
GRI STANDARD		PAGE	LIMITATIONS AND NOTES
<b>GRI 1 – FOUNDATION (2021)</b>		56-57, 294-295	
<b>GRI 2 – GENERAL DISCLOSURES (2021)</b>			
<b>THE ORGANIZATION AND ITS REPORTING PRACTICES</b>			
<b>2-1</b>	Organizational details.	64-69.	218
<b>2-2</b>	Entities included in the organization's sustainability reporting.	66-69.	292
<b>2-3</b>	Reporting period, frequency and contact point.	6.	242. 290
<b>2-4</b>	Restatements of information.		293
<b>2-5</b>	External assurance.	6.	290
<b>ACTIVITIES AND WORKERS</b>			
<b>2-6</b>	Activities, value chain and other business relationships.	54. 98-99. 121. 130. 136-137	196-202. 223
<b>2-7</b>	Employees.		208
<b>2-8</b>	Workers who are not employees.		205. 223
<b>GOVERNANCE</b>			
<b>2-9</b>	Governance structure and composition.		70-77 Report on Corporate Governance and Ownership Structures
<b>2-10</b>	Nomination and selection of the highest governance body.		71 Report on Corporate Governance and Ownership Structures
<b>2-11</b>	Chair of the highest governance body.		Report on Corporate Governance and Ownership Structures
<b>2-12</b>	Role of the highest governance body in overseeing the management of impacts.	45. 58-59. 70-73.	294 Report on Corporate Governance and Ownership Structures
<b>2-13</b>	Delegation of responsibility for managing impacts.		71 Report on Corporate Governance and Ownership Structures
<b>2-14</b>	Role of the highest governance body in sustainability reporting.		7
<b>2-15</b>	Conflicts of interest.		Report on Corporate Governance and Ownership Structures
<b>2-16</b>	Communication of critical concerns.		Report on Corporate Governance and Ownership Structures
<b>2-17</b>	Collective knowledge of the highest governance body.		Report on Corporate Governance and Ownership Structures

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GRI STANDARD		PAGE	LIMITATIONS AND NOTES
2-18	Evaluation of the performance of the highest governance body.	Report on Corporate Governance and Ownership Structures	
2-19	Remuneration policies.	Report on Corporate Governance and Ownership Structures	
2-20	Process to determine remuneration.	Report on the remuneration policy and remuneration paid	
2-21	Annual total compensation ratio.	Report on the remuneration policy and remuneration paid	The data has been calculated considering the salary fixed average of the whole company population and not the median total annual remuneration.
<b>STRATEGY, POLICIES AND PRACTICES</b>			
2-22	Statement on sustainable development strategy.		4-5
2-23	Policy commitments.	Report on Corporate Governance and Ownership Structures	184-185. 192-193. 196-202. 258
2-24	Embedding policy commitments.		185-186. 188-192. 196
2-25	Processes to remediate negative impacts.		248. 285
2-26	Mechanism for seeking advice and raising concerns.	Code of Ethics, 44-45	189-190
2-27	Compliance with laws and regulations.		185
2-28	Membership associations.		236-237. 239
<b>STAKEHOLDER ENGAGEMENT</b>			
2-29	Approach to stakeholder engagement.		234-235. 242-244. 251
2-30	Collective bargaining agreements.		216
<b>GRI 3 MATERIAL TOPICS (2021)</b>			
3-1	Process to determine material topics.		58. 294
3-2	List of material topics.		56
3-3	Management of material topics.		295 In the following section - dedicated to GRI Topic Specific Standards - are indicated the pages of reporting standard 3-3.

**Topic specific standards – GRI 200: economic topics**

GRI STANDARD	PAGE	LIMITATIONS AND NOTES	CAPITALS	SDGs
<b>ECONOMIC PERFORMANCE (2016)</b>	89-92, 225 240-241			
<b>201-1</b> Direct economic value generated and distributed.	240-241			 
<b>201-2</b> Financial implications and other risks and opportunities due to climate change.	89-92			
<b>201-3</b> Defined benefit plan obligations and other retirement plans.	225			
<b>201-4</b> Financial assistance received from government.	241			
<b>MARKET PRESENCE (2016)</b>	231			
<b>202-2</b> Proportion of senior entry level wage by gender compared to local minimum wage.	231			
<b>INDIRECT ECONOMIC IMPACTS (2016)</b>	109,250			
<b>203-1</b> Infrastructure investments and services supported.	109, 250			  
<b>PROCUREMENT PRACTICES (2016)</b>	196-202			
<b>204-1</b> Proportion of spending on local suppliers.	198			
<b>ANTI-CORRUPTION (2016)</b>	185, 188-193			
<b>205-1</b> Operations assessed for risks related to corruption.	188			
<b>205-2</b> Communication and training about anti-corruption policies and procedures.	189	Information on suppliers is provided on page 196.		
<b>205-3</b> Confirmed incidents of corruption and actions taken.	185			
<b>ANTI-COMPETITIVE BEHAVIOR (2016)</b>	80-81, 185			
<b>206-1</b> Legal actions for anti-competitive behaviour, anti-trust, and monopoly practices.	185			
<b>TAX (2019)</b>	186-187			
<b>207-1</b> Approach to tax.	186			  
<b>207-2</b> Tax governance, control, and risk management.	186-187	For the reports, see page 190. For the assurance process, see the independent auditor's report on the financial statements.		  
<b>207-3</b> Stakeholder engagement and management of concerns related to tax.	187			  
<b>207-4</b> Country by country reporting.	68-69, 187			  

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**Topic specific standards – GRI 300: environmental topics**

GRI STANDARD	PAGE	LIMITATIONS AND NOTES	CAPITALS	SDGs
<b>MATERIALS (2016)</b>	258, 274			
<b>301-1</b> Materials used by weight or volume.	274			 
<b>ENERGY (2016)</b>	258, 266-267			
<b>302-1</b> Energy consumption within the organization.	266			   
<b>302-3</b> Energy intensity.	267			   
<b>BIODIVERSITY (2016)</b>	258, 281-282			
<b>304-1</b> Operational sites owned, leased, managed in, or adjacent to, protected areas and areas of high biodiversity value outside protected areas.	281			  
<b>304-4</b> IUCN Red List species and national conservation list species with habitats in areas affected by operations.	281-282			  
<b>EMISSIONS (2016)</b>	258, 261-264 266, 269			
<b>305-1</b> Direct (Scope 1) GHG emissions.	261			    
<b>305-2</b> Energy indirect (Scope 2) GHG emissions.	263			    
<b>305-3</b> Other indirect (Scope 3) GHG emissions.	266			    
<b>305-4</b> GHG emissions intensity.	265			  
<b>305-5</b> Reduction of GHG emissions.	262, 266, 269			  
<b>WASTE (2020)</b>	258, 276-277			
<b>306-1</b> Waste generation and significant waste related impacts.	276			   
<b>306-2</b> Management of significant waste related impacts.	276			   
<b>306-3</b> Waste generated.	277			    
<b>SUPPLIER ENVIRONMENTAL ASSESSMENT (2016)</b>	158, 199, 201			
<b>308-1</b> New suppliers that were screened using environmental criteria	199			
<b>308-2</b> Negative environmental impacts in the supply chain and actions taken.	201			

Topic specific standards – GRI 400: social topics

GRI STANDARD	PAGE	LIMITATIONS AND NOTES	CAPITALS	SDGs
<b>EMPLOYMENT (2016)</b>	203, 205-206 225-227			
<b>401-1</b> New employee hires and employee turnover.	206			  
<b>401-2</b> Benefits provided to full-time employees that are not provided to temporary or part-time employees.	225			  
<b>401-3</b> Parental leave.	227			 
<b>LABOR / MANAGEMENT RELATIONS (2016)</b>	203, 217			
<b>402-1</b> Minimum notice periods regarding operational changes.	217			
<b>OCCUPATIONAL HEALTH AND SAFETY (2018)</b>	203, 218-219 220-221, 225			
<b>403-1</b> Occupational health and safety management system.	218			
<b>403-2</b> Hazard identification, risk assessment, and incident investigation.	219			
<b>403-3</b> Occupational health services.	218			
<b>403-4</b> Worker participation, consultation, and communication on occupational health and safety.	218			 
<b>403-5</b> Worker training on occupational health and safety.	219			
<b>403-6</b> Promotion of worker health.	219, 225			
<b>403-7</b> Prevention and mitigation of occupational health and safety impacts directly linked by business relationships.	196			
<b>403-9</b> Work-related ill health.	220-221			   
<b>TRAINING AND EDUCATION (2016)</b>	163, 210, 212-213			
<b>404-1</b> Average hours of training per year per employee.	213			   
<b>404-2</b> Programs for upgrading employee skills and transition assistance programs.	210, 212	For transition assistance programmes see the Consolidated Financial Statements.		
<b>404-3</b> Percentage of employees receiving regular performance and career development reviews.	210			  
<b>DIVERSITY AND EQUAL OPPORTUNITY (2016)</b>	72, 203, 208, 228-231			
<b>405-1</b> Diversity of governance bodies and employees.	72, 208, 228-231			 
<b>405-2</b> Ratio of basic salary and remuneration of women to men.	230			  
<b>NON- DISCRIMINATION (2016)</b>	190, 203, 224			
<b>406-1</b> Incidents of discrimination and corrective actions taken.	190, 224			 
<b>FREEDOM OF ASSOCIATION AND COLLECTIVE BARGAINING (2016)</b>	201			
<b>407-1</b> Operations and suppliers in which the right to freedom of association and collective bargaining may be at risk.	201			
<b>LOCAL COMMUNITIES (2016)</b>	232, 244, 246- 248, 279		a	
<b>413-1</b> Operations with local community engagement, impact assessments, and development programs.	244, 246			
<b>413-2</b> Operations with significant actual and potential negative impacts on local communities.	248, 279			 
<b>SUPPLIER SOCIAL ASSESSMENT (2016)</b>	196-202			
<b>414-1</b> New suppliers that were screened using social criteria.	199			  
<b>414-2</b> Negative social impacts in the supply chain and actions taken.	201-202			  
<b>PUBLIC POLICY (2016)</b>	249			
<b>415-1</b> Political contributions.	249			
<b>CUSTOMER PRIVACY (2016)</b>	188			
<b>418-1</b> Substantiated complaints concerning breaches of customer privacy and losses of customer data.	188			

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## List of material performance indicators required to meet sector disclosure requirements for the electric utilities sector (EUSS 2013)

EUSS INDICATORS	PAGE	LIMITATIONS AND NOTES	CAPITALS	SDGs
<b>ORGANIZATIONAL PROFILE</b>				
<b>EU3</b> Number of residential, industrial, institutional, and commercial customer accounts.	127			
<b>EU4</b> Length of above and underground transmission and distribution lines by regulatory regime.	99, 320-321			
<b>SYSTEM EFFICIENCY</b>				
<b>EU12</b> Transmission and distribution losses as a percentage of total energy.	264			
<b>BIODIVERSITY</b>				
<b>EU13</b> Biodiversity of offset habitats compared to the biodiversity of the affected areas.	279, 280			
<b>EMPLOYMENT</b>				
<b>EU15</b> Percentage of employees eligible to retire in the next 5 and 10 years broken down by job category and by region.	207			
<b>EU17</b> Days worked by contractor and subcontractor employees involved in construction, operation & maintenance activities.	223			
<b>EU18</b> Percentage of contractor and subcontractor employees that have undergone relevant health and safety training.	223			
<b>LOCAL COMMUNITIES</b>				
<b>EU22</b> Number of people physically or economically displaced and compensation, broken down by type of project.	248			
<b>CUSTOMER HEALTH AND SAFETY</b>				
<b>EU25</b> Number of injuries and fatalities to the public involving company assets, including legal judgments, settlements and pending legal cases of diseases.	185			
<b>ACCESS</b>				
<b>EU28</b> Power outage frequency (SAIFI).	119			
<b>EU29</b> Average power outage duration (AIT).	119			

## List of other GRI performance indicators published

In line with an approach based on voluntary disclosure, the Group has opted to publish certain indicators even if they are judged to fall below the materiality threshold and thus do not fall within the scope of the NFS (see the specific section on materiality on page 292). Finally, it should be noted that these indicators only partially refer to the requirements provided for in the GRI.

GRI STANDARD	PAGE	LIMITATIONS AND NOTES	CAPITALS	SDGs
<b>WATER AND EFFLUENTS (2018)</b>				
<b>303-1</b> Interactions with water as a shared resource.	276			
<b>CHILD LABOR (2016)</b>				
<b>408-1</b> Operations and suppliers at significant risk for incidents of labour.	196,198			
<b>FORCED OR COMPULSORY LABOR (2016)</b>				
<b>409-1</b> Operations and suppliers at significant risk for incidents of forced or compulsory labour.	196,198			

For Key indicator tables scan this QR code.



# Links between the GRI Standards and the Global Compact principles

This table shows the links between the GRI Standards applicable to Terna and the related Global Compact principles in order to make it easier to find information of significance to stakeholders interested in assessing Terna's implementation of the principles.

	GLOBAL COMPACT PRINCIPLE	GRI DISCLOSURE	INDICATORS	PAGE
HUMAN RIGHTS	<b>Principle 1</b> Businesses should <b>support and respect the protection</b> of internationally proclaimed <b>human rights</b> .	<b>Human Rights</b> "Investment" aspect "Assessment" aspect	2-24	185, 188, 196
		<b>Company</b> "Local Communities" aspect	413-1 413-2	244-247 279
	<b>Principle 2</b> <b>Ensure</b> that, even if indirectly, they <b>are not complicit in the abuse of human rights</b> .	<b>Human Rights</b> "Investment" aspect	2-24	185, 188, 196
		"Assessing respect for human rights in the supply chain" aspect	414-1 414-2	199 201
LABOUR	<b>Principle 3</b> Businesses should <b>uphold the freedom of association</b> and the effective recognition of the <b>right to collective bargaining</b> .	<b>Organisational profile</b> "Collective bargaining agreements" aspect	2-30	216
		<b>Human Rights</b> "Freedom of association and collective bargaining" aspect	407-1	201
		<b>Labour</b> "Management relations"	402-1	217
	<b>Principle 4</b> Businesses should eliminate all <b>forms of forced and compulsory labour</b> .	<b>Human Rights</b> "Forced or compulsory labour" aspect	409-1	196,198
		<b>Principle 5</b> Businesses should <b>eliminate child labour</b> .	<b>Human Rights</b> "Child labour"	408-1
	<b>Organisational Profile</b> "Employees" aspect		2-7	208
	<b>Principle 6</b> Businesses should eliminate all <b>forms of discrimination</b> in respect of employment and occupation.	<b>Economy</b> "Presence on the market" aspect	202-2	231
		<b>Correct work practices</b> "Employment" aspect	401-1 401-3	206 227
			"Training and education" aspect	404-1 404-3
		"Diversity and equal opportunities" aspect	405-1	72, 208 228-231
"Equal pay for men and women" aspect		405-2	230	
<b>Human Rights</b> "Non-discrimination" aspect		406-1	190, 224	



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	GLOBAL COMPACT PRINCIPLE	GRI DISCLOSURE	INDICATORS	PAGE	
ENVIRONMENT	<b>Principle 7</b> Businesses should support a <b>precautionary approach to environmental challenges.</b>	<b>Financial</b> "Financial Performance" aspect	201-2	89-92	
		<b>Environment</b> "Materials" aspect	301-1	274	
		"Energy" aspect	302-1	266	
		"Water" aspect	303-1	276	
		"Emissions" aspect	305-1	261	
		<b>Environment</b> Materials" aspect	301-1	274	
		"Energy" aspect	302-1 302-3	266 261	
		"Biodiversity" aspect	304-4	281-282	
		"Emissions" aspect	305-1 305-2 305-3 305-4 305-5 304-1	261 263 266 265 262, 266, 269 281-282	
		"Waste" aspect	306-1 306-2	276 276	
	"Compliance" aspect	2-27	185		
	"Assessment of suppliers on environmental criteria" aspect	308-1 308-2	199 201		
	<b>Principle 8</b> Businesses should undertake initiatives to promote <b>greater environmental sustainability.</b>	<b>Environment</b> "Emissions" aspect	305-5	262, 266, 269	
	<b>Principle 9</b> Businesses should encourage the <b>development and diffusion of environmentally friendly technologies.</b>				
	TACKLING CORRUPTION	<b>Principle 10</b> Businesses should <b>work against corruption in all its forms</b> , including extortion and bribery.	<b>Company</b>	2-23	184-185 192-193 196-202, 258
			"Ethics and integrity" aspect	2-26	189-190
			"Anticorruption" aspect	205-1	188
"Public policy" aspect			205-1	188	





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## INDEPENDENT AUDITOR'S REPORT ON THE CONSOLIDATED NON-FINANCIAL STATEMENT PURSUANT TO ARTICLE 3, PARAGRAPH 10 OF LEGISLATIVE DECREE No. 254 OF DECEMBER 30, 2016 AND ART. 5 OF CONSOB REGULATION N. 20267/2018

To the Board of Directors of  
Terna S.p.A.

Pursuant to article 3, paragraph 10, of the Legislative Decree no. 254 of December 30, 2016 (hereinafter also "Decree") and to article 5 of the CONSOB Regulation n. 20267/2018, we have carried out a limited assurance engagement on the Consolidated Non-Financial Statement of Terna S.p.A. and its subsidiaries (hereinafter "Terna Group" or "Group") as of December 31, 2022 prepared on the basis of art. 4 of the Decree, presented in the specific section of the Report on operations and integrated, through references, with information presented in other sections of the Report on operations, approved by the Board of Directors on March 22, 2023 (the "NFS").

Our limited assurance engagement does not extend to the information required by art. 8 of the European Regulation 2020/852 included in the paragraph "The EU Taxonomy".

### Responsibility of the Directors and the Board of Statutory Auditors for the NFS

The Directors are responsible for the preparation of the NFS in accordance with articles 3 and 4 of the Decree and "*Global Reporting Initiative Sustainability Reporting Standards*" established by GRI – *Global Reporting Initiative* (hereinafter also "GRI Standards"), which they have identified as reporting framework.

The Directors are also responsible, within the terms established by Law, for such internal control as they determine is necessary to enable the preparation of NFS that is free from material misstatement, whether due to fraud or error.

The Directors are moreover responsible for defining the contents of the NFS, within the topics specified in article 3, paragraph 1, of the Decree, taking into account the activities and characteristics of the Group, and to the extent necessary in order to ensure the understanding of the Group's activities, its trends, performance and the related impacts.

Finally, the Directors are responsible for defining the business management model and the organisation of the Group's activities as well as, with reference to the topics detected and reported in the NFS, for the policies pursued by the Group and for identifying and managing the risks generated or undertaken by the Group.

The Board of Statutory Auditors is responsible for overseeing, within the terms established by law, the compliance with the provisions set out in the Decree.

## Auditor's Independence and quality control

We have complied with the independence and other ethical requirements of the *Code of Ethics for Professional Accountants* issued by the *International Ethics Standards Board for Accountants*, which is founded on fundamental principles of integrity, objectivity, professional competence and due care, confidentiality and professional behaviour. Our auditing firm applies International Standard on Quality Control 1 (ISQC Italia 1) and, accordingly, maintains a comprehensive system of quality control including documented policies and procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements.

## Auditor's responsibility

Our responsibility is to express our conclusion based on the procedures performed about the compliance of the NFS with the Decree and the GRI Standards. We conducted our work in accordance with the criteria established in the *"International Standard on Assurance Engagements ISAE 3000 (Revised) – Assurance Engagements Other than Audits or Reviews of Historical Financial Information"* (hereinafter also *"ISAE 3000 Revised"*), issued by the *International Auditing and Assurance Standards Board* (IAASB) for limited assurance engagements. The standard requires that we plan and perform the engagement to obtain limited assurance whether the NFS is free from material misstatement. Therefore, the procedures performed in a limited assurance engagement are less than those performed in a reasonable assurance engagement in accordance with ISAE 3000 Revised, and, therefore, do not enable us to obtain assurance that we would become aware of all significant matters and events that might be identified in a reasonable assurance engagement.

The procedures performed on NFS are based on our professional judgement and included inquiries, primarily with company personnel responsible for the preparation of information included in the NFS, analysis of documents, recalculations and other procedures aimed to obtain evidence as appropriate.

Specifically we carried out the following procedures:

1. analysis of relevant topics with reference to the Group's activities and characteristics disclosed in the NFS, in order to assess the reasonableness of the selection process in place in light of the provisions of art. 3 of the Decree and taking into account the adopted reporting standard;
2. analysis and assessment of the identification criteria of the consolidation area, in order to assess its compliance with the Decree;
3. comparison between the financial data and information included in the NFS with those included in the consolidated financial statements of the Terna Group;

#### 4. understanding of the following matters:

- business management model of the Group's activities, with reference to the management of the topics specified by article 3 of the Decree;
- policies adopted by the entity in connection with the topics specified by article 3 of the Decree, achieved results and related fundamental performance indicators;
- main risks, generated or undertaken, in connection with the topics specified by article 3 of the Decree.

Moreover, with reference to these matters, we carried out a comparison with the information contained in the NFS and the verifications described in the subsequent point 5, letter a) of this report;

#### 5. understanding of the processes underlying the origination, recording and management of qualitative and quantitative material information included in the NFS.

In particular, we carried out interviews and discussions with the management of Terna S.p.A., Terna Rete Italia S.p.A. and Tamini Trasformatori S.r.l., and we carried out limited documentary verifications, in order to gather information about the processes and procedures which support the collection, aggregation, elaboration and transmittal of non-financial data and information to the department responsible for the preparation of the NFS.

In addition, for material information, taking into consideration the Group's activities and characteristics:

- at the parent company's and subsidiaries' level:
  - a) with regards to qualitative information included in the NFS, and specifically with reference to the business management model, policies applied and main risks, we carried out interviews and gathered supporting documentation in order to verify its consistency with the available evidence;
  - b) with regards to quantitative information, we carried out both analytical procedures and limited verifications in order to ensure, on a sample basis, the correct aggregation of data.
- for the North and Centre Transmission Departments and Plant Units of Marche and Brescia of Terna Rete Italia s.p.A., and for Tamini Trasformatori S.r.l., which we selected based on their activities, their contribution to the performance indicators at the consolidated level and their location, we carried out remote meetings, during which we have met their management and have gathered supporting documentation with reference to the correct application of procedures and calculation methods used for the indicators.

## Conclusion

Based on the work performed, nothing has come to our attention that causes us to believe that the NFS of the Terna Group as of December 31, 2022 is not prepared, in all material aspects, in accordance with articles 3 and 4 of the Decree and GRI Standards.

Our conclusion on the NFS does not extend to the information required by art. 8 of the European Regulation 2020/852 included in the paragraph "The EU Taxonomy".

DELOITTE & TOUCHE S.p.A.

Signed by  
**Franco Amelio**  
Partner

Milan, Italy  
April 17, 2023

*This report has been translated into the English language solely for the convenience of international readers.*





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## Annexes

# Regulatory framework and other information

## Summary of the principal legislative measures

A brief description is provided below of the principal legislation of interest to the Group issued during 2022 and, subsequently, up to the date of preparation of this Annual Report.

- **Law Decree 4 of 27 January 2022, containing “Urgent measures concerning support for businesses and economic operators, employment, health and local services connected with the Covid-19 emergency, and containment of the impact of rising electricity prices”, converted into Law 25 of 28 March 2022, published in Official Gazette no. 3 of 28 March 2022 (the *Sostegni-ter* Law Decree)**

The Law Decree contains urgent measures designed to contain the impact of rising electricity prices, including a two-way compensation mechanism for electricity prices, reductions in bills for energy-intensive sectors, cuts to environmentally damaging subsidiaries and legislation governing the NRRP-PNIEC technical committee.

- **Law Decree 14 of 22 February 2022, containing “Urgent provisions concerning the crisis in Ukraine”, converted into Law 28 of 5 April 2022, published in Official Gazette no. 87 of 13 April 2022 (the *Ucraina* Law Decree)**

The Law Decree contains measures concerning national energy security, including a requirement that Terna prepare a plan for maximising the use of power coal- and oil-fuelled generation plants with a nominal thermal capacity of over 300 MW for the estimated duration of the emergence, without affecting the contribution from renewable energy plants. The legislation also requires Terna to submit the plan on a weekly basis to the Ministry for the Ecological Transition and ARERA and to carry out dispatching for the above plants, in accordance with grid security constraints, so as to maximise their use, and treating them as if they were essential for the security of the electricity system.

- **Law Decree 17 of 1 March 2022, containing “Urgent measures concerning the containment of electricity and natural gas prices, the development of renewable energy and the renewal of industrial policies”, converted into Law 34 of 27 April 2022, published in Official Gazette no. 98 of 28 April 2022 (the *Energia* Law Decree)**

The Law Decree applies a series of proposals from Terna, such as simplification of the process for alterations to renewable energy plants and simplification of the measures applicable to electricity infrastructure. It also contains measures removing system costs, cutting VAT on gas and general gas system costs, reporting to ARERA on efforts to cut energy prices, energy vouchers, a strategy to combat economic poverty, a simplified approach to the installation of photovoltaic plants in suitable areas and to electrochemical storage systems and floating plants, self-consumption, and further simplifications for renewable plants in suitable areas and consents processes for offshore and pumping plants.

- **Law Decree 21 of 21 March 2022, containing “Urgent measures to combat the economic and humanitarian effects of the crisis in Ukraine”, converted into Law 21 of 20 May 2022, published in Official Gazette no. 117 of 20 May 2021 (the *Tagliaprezzi* Law Decree)**

Among the relevant provisions, the Law Decree contains measures simplifying the approach to renewables, the extraordinary grant to help with energy bills, tax credits for energy purchases, the voucher for electricity purchases and the payment of bills in instalments, price transparency for imported gas, special powers in the energy, transport and communications sectors, qualifications for contracting authorities and the revision of prices in public contracts.

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- **Law Decree 24 of 24 March 2022, containing “Urgent provisions removing the measures designed to combat the spread of Covid-19, following the end of the state of emergency”, converted into Law 52 of 19 May 2022, published in Official Gazette no. 119 of 23 May 2022 (the *Fine Emergenza Covid Law Decree*)**

The Law Decree contains measures to facilitate the return to normality following the end of the Covid-19 state of emergency (simplified smart working).

- **Law Decree 50 of 17 May 2022, containing “Urgent measures concerning national energy policy, the productivity of businesses and attracting investment, and social policies and the crisis in Ukraine”, published in Official Gazette no. 114 of 17 May 2022, in the process of being converted (the *Aiuti Law Decree*)**

The Law Decree applies a series of proposals from Terna concerning suitable areas for the NTG, the deferral of environmental impact assessments without restrictions, the exemption of cable power lines from environmental impact assessments, simplification of the consents process with commencement notices. It also contains legislation on excess profits, social vouchers, tax credits for energy purchases, regassification, simplifications for renewable energy plants, energy communities and public tenders.

The Law Decree was also merged with Law Decree 80 of 30 June 2022, containing urgent measures to contain electricity and natural gas costs for the third quarter of 2022 and guaranteeing the liquidity of companies operating gas storage facilities (the *Bollette III Law Decree*). The Decree removed general system costs in the electricity sector for the third quarter of 2022, cut VAT and general costs in the gas sector for the third quarter of 2022, introduced measure to speed up natural gas storage and guaranteed to meet liquidity needs connected with natural gas storage.

- **Law 78 of 21 June 2022, containing “Delegation to the Government regarding public contracts”, published in Official Gazette no.146 of 24 June 2022 (the delegated law on public contracts).**

The law sets out the principles and criteria that the Government must follow in adopting one or more legislative decrees governing public contracts.

- **Law Decree 36 of 30 April 2022, containing “Additional urgent measures implementing the National Recovery and Resilience Plan”, converted into Law 79 of 29 June 2022, published in Official Gazette no. 150 of 29 June 2022 (the *PNRR-bis Law Decree*)**

The Law Decree contains measures on gender equality, changes to the Tenders Code, the production and consumption of hydrogen, water used for irrigation, the approval of water area plans, biomass, environmental offences, cold ironing, special economic zones and simplified logistics zones.

- **Law Decree 68 of 16 June 2022, containing “Urgent provisions for the security and development of infrastructure, transport and sustainable mobility, and concerning major events and the operations of the Ministry of Sustainable Infrastructure and Mobility”, published in Official Gazette no. 139 of 16 June 2022, in the process of being converted (the *MIMS2 Law Decree*)**

The Law Decree contains measures to accelerate the construction of road infrastructure for Rome and the Jubilee of 2025, concerning dams, road traffic, local public transport, particularly complex public works or those with a significant impact and the operations of the Committee for environment and strategic impact assessments and the NRRP-PNIEC Committee.

- **Law Decree 73 of 21 June 2022, containing “Urgent measures concerning the simplification of taxation and the issue of work permits, the Treasury and other financial and social measures”, published in Official Gazette no. 143 of 21 June 2022, in the process of being converted (the *Semplificazioni fiscali Law Decree*)**

The Law Decree extends application of the Reverse Charge mechanism until 31 December 2026, and contains measures on the obligation to endorse company records every four months, the donation of a proportion of taxable income to charity, changes to the tax calendar, tax returns and lease contracts.

- **Law 118 of 5 August 2022, containing the annual markets and competition law for 2021, published in Official Gazette no. 188 of 12 August 2022 (the *Concorrenza* draft legislation).**

The Law delegates the Government to simplify the legislation governing RES, authorising the Government to adopt, within 12 months of the Law coming into force, one or more legislative decrees governing renewable energy sources with a view to reforming the legal framework. The Law further delegates the Government to legislate on the mapping and transparency of public assets operated under concession, measures regarding concessions for large hydroelectric sources and charging points, procedures for the construction of next generation infrastructure.

- **Law 127 of 4 August 2022, containing the “Delegation to the Government for the transposition of EU directives and implementation of European legislation”, published in Official Gazette no. 199 of 26 August 2022 (the *European Delegation Law 2021*).**

The Law establishes that the Government must follow a series of specific principles and criteria for cross-border transformations, mergers and demergers, markets for financial instruments and crowdfunding services for businesses.

- **Law Decree 115 of 9 August 2022, containing “Urgent measures concerning energy, the water emergency, social and industrial policies”, converted into Law 142 of 21 September 2022, published in Official Gazette no. 221 of 21 September 2022 (the *Aiuti-bis* Law Decree).**

The Law Decree introduces a simplified consents process for certain types of photovoltaic plant; price adjustments in tenders for work on the construction, efficiency improvement or repowering of electricity plants; cybersecurity legislation, a register of permanent occupation of underground space, the suspension of unilateral amendments of electricity and gas supply contracts, tax relief of the purchase of such supplies, the removal of general electricity system costs, a compensation mechanism, windfall taxes, governance of the integrated water service and the state of emergency resulting from water shortages, areas of national strategic interest and an accelerated regional consents process, a review of complementary fund pricing – the Milan-Cortina Olympics.

- **Law Decree 144 of 23 September 2022, containing “Additional urgent measures concerning national energy policy, the productivity of businesses, social policies and implementation of the national recovery and resilience plan (NRRP)”, converted into Law 175 of 17 November 2022, published in Official Gazette no. 269 of 17 November 2022 (the *Aiuti-ter* Law Decree).**

The Law Decree includes measures relating to the development of new regassification capacity and the related infrastructure and works; national energy resilience; access to funding for urgent projects; energy vouchers for businesses and tax relief.

- **Law 197 of 29 December 2022, containing the Government’s Budget for the 2023 financial year and the multi-year budget for the three years 2023-2025, published in Official Gazette no. 303 of 29 December 2022 (the *Budget Law*).**

The Law Decree set up a scheme designed to cut energy consumption to be run by Terna through an open procedure for selecting end users willing to commit to reducing their consumption through to 31 March 2023. It also removes general electricity system costs for the first quarter of 2023 and the temporary solidarity payment for 2023, as well as containing legislation on tenders and labour.

As regards taxation, it contains measures regarding: the non-deductibility of costs deriving from transactions with businesses located in countries or territories with whom there is no tax cooperation; substitute tax on revenue reserves; the taxation of gains realised by overseas entities; remeasurement of the purchase prices of land and investments; penalties regarding VAT; settlement concessions for amounts payable following automated checks of tax returns; the settlement of formal irregularities; special adjustments for tax violations; a series of measures concerning tax disputes.

- **Law Decree 176 of 18 November 2022, containing “Additional urgent measures concerning support in the energy sector and the public finances”, converted into Law 6 of 13 January 2023, published in Official Gazette no. 13 of 17 January 2023 (the *Aiuti-quater* Law Decree).**

The Law Decree contains measures concerning the NRRP-PNIEC Technical Committee, the Ministry of Defence’s contribution to Italy’s energy independence, the procedures for awarding contracts.

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## Resolutions of the Italian Regulatory Authority for Energy, Networks and the Environment

A list is provided below of the principal resolutions adopted by Italy's Regulatory Authority for Energy, Networks and the Environment (ARERA) during 2022 and, subsequently, up to the date of preparation of this Annual Report.

### ARERA determinations on the remuneration of transmission and dispatching services

- **Resolution 23/2022/R/eel** - Determination of the reward for the delivery of additional transmission capacity between market areas in 2020.
- **Resolution 25/2022/R/eel** - Determination of the reward for unification of the national transmission grid following the purchase of a portion of the grid owned by Megareti.
- **Resolution 132/2022/R/eel** - Changes to incentive schemes to reduce dispatching costs.
- **Opinion 265/2022/I/eel** - Issue of an opinion by the Ministry for the Ecological Transition on the update regarding the national transmission grid.
- **Resolution 281/2022/R/eel** - Extension of existing provisions concerning the regulation of reactive energy tariffs on HV and VHV electricity grids.
- **Resolution 527/2022/R/com** – Launch of process of adopting measures concerning the criteria for totex- and output-based regulation of the service.
- **Resolution 621/2022/R/eel** – Determination of the reward for unification of the national transmission grid following the purchase of a portion of the grid owned by Nord Energia S.p.A..
- **Resolution 623/2022/R/eel** - Determination of the reward for of the quality-of-service bonus for electricity transmission and partial return of payments from Terna S.p.A. regarding mitigation services for 2021.
- **Resolution 654/2022/R/eel** – Review of activation of the trigger mechanism introduced by article 8 of the TIWACC 2022-2027 for 2023 and correction of a material error in the TIWACC 2022-2027.
- **Resolution 719/2022/R/eel** - Revision of tariffs for provision of the electricity transmission service for 2023.
- **Resolution 728/2022/R/eel** - Recognition of the final costs for 2021 and the estimated costs for 2023 incurred by Terna S.p.A. in carrying out its market monitoring activities.
- **Resolution 738/2022/R/eel** - Revision of dispatching fees from 1 January 2023.

### ARERA determinations on the provision of transmission and dispatching services

- **Resolution 9/2022/R/eel** - Compliance review of the Code for Transmission, Dispatching, Grid Development and Security regarding an evaluation of the increase in resilience resulting from grid development projects.
- **Resolution 47/2022/R/eel** - Extension of the deadline for the entry into service of the new Piosasco (IT) – Grand'Île (FR) interconnector in accordance with the European Commission decision C(2022) 389 Final.
- **Resolutions 49/2022/R/eel, 93/2022/R/eel and 140/2022/R/eel** - Provisions concerning prolongation of the virtual import service referred to in ARERA determination ARG/elt 179/09, pursuant to the provisions of the Law Decree of 30 December 2021. Approval of the related standard contract and the regulations governing the auctions held to assign the service.

- **Resolution 65/2022/R/com** - Deadline for 2022 for preparation of the documents describing the scenarios for electricity transmission and gas transport development plans.
- **Resolution 83/2022/R/eel** - Urgent amendments and additions to the method for setting the strike price on the capacity market, as referred to in the regulator's Resolution 363/ 363/2019/R/eel.
- **Resolution 123/2022/R/eel** - Approval of the proposed changes to the Code for Transmission, Dispatching, Development and Security of the grid, in implementation of the reform of the rules governing imbalances, and further changes to dispatching rules.
- **Resolution 134/2022/R/eel** - Approval of the proposed changes to chapters 4 and 7 and annexes A.23 and A.25 in the Code for Transmission, Dispatching, Development and Security for Terna's grid.
- **Resolution 279/2022/R/com** - Start of the procedure implementing the Cabinet Office decree of 29 March 2022 concerning the works and infrastructure necessary for the phase-out of the use of coal in Sardinia.
- **Resolution 285/2022/R/eel** - Approval of annex A.78 to the Code for Transmission, Dispatching, Development and Security of the grid concerning the measurement algorithms used to calculate negative electricity injected and amendments to the regulator's Resolution 109/2021/R/eel.
- **Resolution 287/2022/R/eel** - Approval of the proposed changes to annexes A.6 and A.13 in the Code for Transmission, Dispatching, Development and Security for Terna's grid, concerning the exchange of data between Terna, distribution companies and significant grid users in relation to the secure operation of the national electricity system.
- **Resolution 326/2022/R/eel** – Approval of the revised contract between Terna S.p.A. and Piemonte Savoia S.r.l. for commercial management of the Piedmont Savoia Interconnector.
- **Resolution 329/2022/R/eel** – Provision of the dispatching service to end users connected to closed distribution systems in compliance with the Council of State rulings 4346/2021, 4347/2021 and 4348/2021. Conclusion of the process launched with Resolution 323/2021/R/eel.
- **Opinion 335/2022/I/eel** – Assessment of the draft ten-year national transmission grid development plan for 2021.
- **Resolution 344/2022/R/eel** – Further measures concerning the creation of Regional Coordination Centres (RCCs) for the (SOR) Central Europe and South East Europe region, in accordance with article 35 of Regulation (EU) 2019/943.
- **Resolutions 430/2022/R/eel** and **725/2022/R/eel** – Urgent criteria for the formulation of offers on the electricity market and remuneration, with regard to electricity production plants powered by fuels other than natural gas, pursuant to article 5bis of Law Decree 14 of 25 February 2022 and the ministerial guidelines dated 1 September 2022.
- **Resolution 450/2022/R/eel** – Definition of the automatic mechanism for recovering amounts due from and not paid by the operators of closed distribution systems following delayed application of the relevant regulations.
- **Resolution 472/2022/R/eel** – Additional regulation concerning the transmission, distribution and dispatching of service for electricity withdrawn in order to enable it to be fed back into the grid, as described in Resolution 109/2021/R/eel.
- **Resolution 473/2022/R/eel** – Urgent measures concerning adjustments for load profiling.
- **Resolutions 532/2022/R/eel** and **626/2022/R/eel** – Measures concerning essential plants. Amendments and additions to the related regulations.
- **Resolution 587/2022/R/eel** – Implementation of single intraday coupling on the Greece-Italy border, review of the draft contractual framework.
- **Resolution 603/2022/R/eel** - Approval of Terna S.p.A.'s proposal for the implementation of auctions for the assignment of hedging instruments protecting against the risk of volatility of the fee for using transmission capacity for 2023.
- **Resolution 641/2022/R/eel** – Approval of the rules for explicit allocation of transport capacity on a long-term, daily and intraday basis for the Swiss border.

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- **Resolution 689/2022/R/eel** – Measures for 2023 concerning regulation of the virtual import service introduced by article 32, paragraph 6 of Law 99 of 23 July 2009.
- **Resolution 702/2022/R/eel** – Extension of forward provision of balancing resources through mixed enabled virtual units, pursuant to Resolution 300/2017/R/eel.

Further details of the above resolutions, and information on further resolutions adopted by the regulator (ARERA), can be found on the regulator's website at [www.arera.it](http://www.arera.it).

## Relations with public decision-makers – Main activities in 2022

- On 8 March 2022, Terna gave evidence to the Chamber of Deputies' Environment, Transport and Productive Activities Committee as part of its examination of EU laws forming part of the Fit for 55 package.
- On 10 March 2022, Terna gave evidence to the Chamber of Deputies' Environment, Transport and Productive Activities Committee as part of its examination of Law Decree 17/2022: "Urgent measures concerning the containment of electricity and natural gas prices, the development of renewable energy and the renewal of industrial policies".
- On 7 April 2022, Terna gave evidence to the IVth Committee of the Regional Council of the Self-governing Region of Sardinia in relation to draft law 258: "The protection of Sardinian birdlife from electrocution and collisions caused by power lines and wind farms".
- On 3 June 2022, Terna sent a written memorandum to the Chamber of Deputies' joint Budget and Finance Committees as part of its examination of Law Decree 50 of 2022, containing urgent measures concerning national energy policy, the productivity of businesses and attracting investment, and social policies and the crisis in Ukraine.
- On 5 July 2022, Terna gave evidence to the Senate's Industry Committee as part of its examination of European Union COM (2022) 138 final (Security of supply and affordable energy prices: Options for immediate measures and preparing for next winter).
- On 25 November 2022, Terna responded to a public consultation organised by the Ministry of Infrastructure and Transport on the proposed new public tenders code.

## Other information

Additional information is presented below in accordance with specific statutory or industry requirements.

### Treasury shares

The Parent Company holds a total of 4,375,909 treasury shares (equal to 0.218% of the share capital). These shares were purchased in implementation of three separate buyback programmes to service (i) the Performance Share Plan 2020-2023, in the period between 29 June 2020 and 6 August 2020, (ii) the Performance Share Plan 2021-2025, in the period between 31 May 2021 and 23 June 2021, and (iii) the Performance Share Plan 2022-2026, in the period between 27 May 2022 and 13 June 2022. The Company does not hold any additional treasury shares other than those purchased under the above programmes, including through subsidiaries<sup>109</sup>.

The Parent Company does not directly or indirectly hold any shares in CDP Reti S.p.A. or Cassa Depositi e Prestiti S.p.A., nor has it purchased or sold any such shares during 2022.

### Related party transactions

Given that Terna S.p.A. is subject to the *de facto* control of Cassa Depositi e Prestiti S.p.A., a situation ascertained in 2007, related party transactions entered into by Terna during 2022 include transactions with associates and employee pension funds (Fondenel and Fopen), as well as transactions with Cassa Depositi e Prestiti itself, with CDP Reti S.p.A. and with the companies directly or indirectly controlled by the Ministry of the Economy and Finance ("MEF").

Related party transactions in 2022 primarily regard services forming part of its ordinary activities and provided under normal market conditions, as described in greater detail in the consolidated financial statements for the year ended 31 December 2022<sup>110</sup>.

The Parent Company's corporate governance rules ensure that such transactions are conducted in accordance with the rules governing procedural and substantial correctness and on an arm's length basis, and in keeping with the regulations for transparent reporting to the market and in implementation of the regulations issued by the CONSOB<sup>111</sup>.

No material transactions<sup>112</sup> were carried out in 2022, nor were any transactions subject to the reporting requirements applicable in the event of exemptions applied in accordance with the relevant regulations<sup>113</sup>.

<sup>109</sup> In this regard, see the press releases published on 10 August 2020, 28 June 2021 and 13 June 2022 available at the following links: [https://download.terna.it/terna/2020.08.10\\_CS%20TERNA%20operazioni%20su%20azioni%20proprie%20CHIUSURA%20ITA\\_\\_8d83d42cfd43cb6.pdf](https://download.terna.it/terna/2020.08.10_CS%20TERNA%20operazioni%20su%20azioni%20proprie%20CHIUSURA%20ITA__8d83d42cfd43cb6.pdf), <https://www.terna.it/it/media/comunicati-stampa/dettaglio/operazioni-su-azioni-proprie-conclusione-programma>, <https://www.terna.it/it/media/comunicati-stampa/dettaglio/concluso-programma-acquisto-azioni-proprie>

<sup>110</sup> Relations with members of the Parent Company's Board of Statutory Auditors, with particular regard to their remuneration, are described in the notes to the item, "Services" in the notes to the consolidated and separate financial statements for the year ended 31 December 2022. In addition, in implementation of CONSOB Resolutions 18049 of 23 December 2011 and 21623 of 10 December 2020, disclosures regarding the remuneration of "members of management and supervisory bodies and general managers", and their shareholdings in the Company and those of the other persons referred to in the above article, are included in the annual Report on the Remuneration Policy and Remuneration Paid published in accordance with the law.

<sup>111</sup> The Regulation containing provisions regarding related party transactions adopted in CONSOB Resolution 17221 of 12 March 2010, as amended

<sup>112</sup> These are related party transactions classified in compliance with Annex 3 to the "Regulations on related party transactions".

<sup>113</sup> As "transactions falling within the scope of the ordinary activities of the Company or its subsidiaries or associates or of financing activities related thereto, provided that the transactions are conducted on equivalent to market or standard terms and conditions".



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## Information on ownership structures

The disclosures required by art. 123-*bis* "Report on Corporate Governance and ownership structures" of the Consolidated Law on Financial Intermediation (Legislative Decree 58 of 24 February 1998) are provided in a separate document approved by Terna's Board of Directors ("Report on Corporate Governance and Ownership Structures" for 2022, available on Terna S.p.A.'s website ([www.terna.it](http://www.terna.it) – in the section, "Corporate governance system/Governance Report").

## Attestations pursuant to article 2.6.2, paragraphs 7 and 8 of the Regulations for the markets organised and managed by Borsa Italiana S.p.A., relating to the conditions described in articles 15 and 16 of the CONSOB's Markets Regulation (no. 20249 of 28 December 2017 in Official Gazette no.1 of 2 January 2018)

With reference to the provisions of article 15, paragraph one, letters a), b) and c) point i) of the CONSOB Markets Regulation, under the title *conditions for listing the shares of companies controlling companies incorporated and regulated under the laws of countries not belonging to the European Union*, TERNA S.p.A. declares that it does not hold any significant controlling interests, as defined in Title VI, Chapter II of CONSOB Regulation 11971 of 1999, in companies incorporated and regulated under the laws of countries not belonging to the European Union.

With reference to the provisions of article 16 of the CONSOB Markets Regulation, under the title *conditions prohibiting the listing of the shares of subsidiaries subject to management and coordination by another company*, TERNA S.p.A. declares that it is subject to the *de facto* control of Cassa Depositi e Prestiti S.p.A., exercised through CDP Reti S.p.A. (a joint-stock company controlled by Cassa Depositi e Prestiti S.p.A.), which holds a 29.851% interest in the Parent Company. The checks, providing confirmation of the above situation of control, were conducted by Cassa Depositi e Prestiti and notified to the Company and the CONSOB with effect from 19 April 2007 and, subsequently, by letter dated 30 October 2014 and 2 December 2014. At this time, there are no formal arrangements for the management and coordination of the Company, nor have any such rights been exercised. Terna S.p.A. conducts its business either directly or through its subsidiaries in conditions of operational and contractual independence.

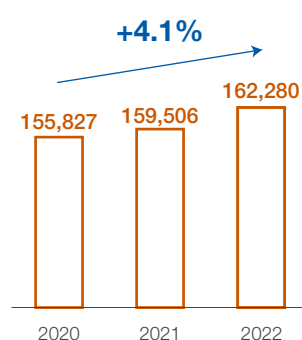
## Participation in the regulatory simplification process introduced by CONSOB Resolution 18079 of 20 January 2012

Pursuant to art. 3 of CONSOB Resolution 18079 of 20 January 2012, Terna has elected to adopt the simplified regime provided for in articles 70, paragraph 8, and 71, paragraph 1-bis of CONSOB Regulation 11971 of 14 May 1999, as amended (the CONSOB Regulations for Issuers). As a result, Terna exercises the exemption from disclosure requirements provided for in the above Regulations in respect of transactions of a significant nature involving mergers, spin-offs, capital increases involving contributions in kind, acquisitions and disposals.

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## Details of electricity substations owned by the Terna Group\*

### Power transformed (MVA)



	UNIT OF MEASUREMENT	AT 31 DECEMBER 2022	AT 31 DECEMBER 2021	CHANGE	% CHANGE
<b>380kV</b>					
Substations	no.	<b>168</b>	167	1	0.60%
Power transformed	MVA	<b>123,288</b>	121,408	1,880	1.55%
<b>220kV</b>					
Substations	no.	<b>150</b>	150	-	-
Power transformed	MVA	<b>34,503</b>	33,710	793	2.35%
<b>Lower voltages (≤ 150kV)</b>					
Substations	no.	<b>583</b>	579	4	0.69%
Power transformed	MVA	<b>4,489</b>	4,388	101	2.30%
<b>Total</b>					
Substations	no.	<b>901</b>	896	5	0.56%
Power transformed	MVA	<b>162,280</b>	159,506	2,774	1.74%

\* MVA calculated to the third decimal place and rounded to a whole number. Percentages calculated to the fifth decimal place and rounded to the second decimal place.

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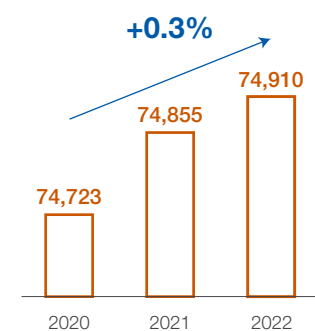
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### Details of power lines owned by the Terna Group\*

	UNIT OF MEASUREMENT	AT 31 DECEMBER 2022	AT 31 DECEMBER 2021	CHANGE	% CHANGE
<b>380kV</b>					
Length of circuits	km	12,911	12,873	38	0.29%
Length of lines	km	11,730	11,692	38	0.32%
<b>220kV</b>					
Length of circuits	km	11,871	11,852	19	0.16%
Length of lines	km	9,496	9,487	9	0.09%
<b>Lower voltages (≤ 150kV)</b>					
Length of circuits	km	50,128	50,130	(2)	-
Length of lines	km	46,880	46,876	4	0.01%
<b>Total</b>					
Length of circuits	km	74,910	74,855	55	0.07%
overhead	km	70,831	70,849	(18)	(0.03%)
underground cables	km	2,317	2,244	73	3.27%
submarine cables	km	1,762	1,762	(1)	(0.04%)
Length of lines	km	68,105	68,054	51	0.07%
overhead	km	64,026	64,048	(22)	(0.03%)
underground cables	km	2,317	2,244	73	3.27%
submarine cables	km	1,762	1,762	(1)	(0.04%)
<b>Incidence of direct current connections (200 - 380 - 500kV)</b>					
Circuits	km	2,440	2,440		
% of total		3.26%	3.26%		
Lines	km	2,120	2,120		
% of total		3.11%	3.12%		

### Length of circuits (km)



\* Km calculated to the third decimal place and rounded to a whole number. Percentages calculated to the fifth decimal place.

## Principal changes in the size of the Terna Group's infrastructure

### Substations

#### New infrastructure:

The following substations have been **commissioned**:

- transformer substation at Nuova Vizzini [CT] (7 380kV bays, 10 150kV bays);
- new switching substation at Celano [AQ] (12 150kV bays);
- new switching substation at Torre Triolo [BR] (4 150kV bays);

and the following have been **purchased**:

- purchase of the switching substation at Craco [MT] (8 150kV bays);
- purchase of the switching substation at Purgatorio [BA] (6 150kV bays).

#### Existing infrastructure:

- **commissioning** of 13 line bays for the substations at Galatina and Codrongianos (1 380kV bay each), Tavazzano (1 220kV bay), Montalto, Terranova, Ginestra degli Schiavoni, Partanna, Fulgatore, Buseto and Fiumesanto (1 150kV bay each), San Ruffillo, Livorno RT and Grosseto (1 132kV bay each); a further 8 bays, already available, were commissioned as line bays for the substations at Pianezza and Partanna 2 (1 220kV bay each), Casuzze (3 150kV bays), Stornarella (2 150kV bays) and Paternò (1 150kV bay) whilst 6 line bays were decommissioned and made available at the Tavazzano Est (4 220kV bays), Casuzze (1 150kV bay) and San Ruffillo (1 132kV bay) substations;
- **commissioning** of 8 new machine bays for the substations at Maida (2 380kV bays), Aprilia 380 (1 380kV bay and 1 150kV bay), Garigliano, Brindisi Pignicelle, Galatina and Fiumesanto (1 150kV bay each); a further 4 bays, already available, were commissioned as machine bays for the substations at Genzano (1 380kV bay and 1 150kV bay), Brindisi Cerrito (1 150kV bay) and Porto Tolle (1 132kV bay) whilst 2 machine bays were decommissioned and made available at the Lasa (1 220kV bay and 1 132kV bay) substation;
- **commissioning** of 7 new power factor corrector bays for the substations at Rotello 380, Deliceto, Maida, Montecorvino and Santa Maria Capua Vetere (1 380kV bay each) and Larino and Bellolampo (1 150kV bay each);
- **commissioning** of 1 132kV parallel bay for the substation at Grosseto;
- **demolition** of 5 150kV line bays at the Casuzze substation;
- **demolition** of 2 150kV power factor corrector bays for the substations at Bellolampo and Partanna (1 bay each).

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## Transformers

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The following transformers have been **commissioned**:

- 2 new 380/150kV 400 MVA autotransformers coinciding with the commissioning of the Nuova Vizzini substation;
- 2 new 380/150kV 250 MVA autotransformers for the Aprilia 380 and Genzano substations;
- 2 new 380/20kV 290 MVA autotransformers coinciding with the commissioning of the synchronous compensator at Maida;
- 1 new 150/20kV 40 MVA transformer for the Brindisi Cerrito substation;
- 1 new 150/20kV 16 MVA transformer for the Garigliano substation;
- 1 new 150/15kV 25 MVA transformer for the Fiumesanto substation;

and the following **further changes** occurred:

- replacement of 2 220/150kV 160 MVA autotransformers with other 250 MVA autotransformers at the Caracoli substation;
- replacement of 2 220/150kV 100 MVA autotransformers with other 250 MVA autotransformers at the Selargius substation;
- replacement of 3 220/132kV 160 MVA autotransformers with other 250 MVA autotransformers at the Sangone, Stura and Pallanzeno substations;
- replacement of 1 220/20kV 40 MVA transformer with another 63 MVA transformer at the Colorno substation;
- decommissioning of 1 220/132kV 70 MVA transformer at the Lasa substation.

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## Power lines

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- **construction** of the new 380kV Bisaccia – Deliceto line (34.5 km overhead);
  - **construction** of the new 380kV connection from Codrongianos to ICS3 (0.3 km in cable);
  - **construction** of the new 150kV Oppido Lucano - Vaglio 2 line (19.9 km overhead);
  - **construction** of the new 150kV Fiumesanto - Portotorres 1 line (18.3 km overhead);
  - **construction** of the new 150kV Ariano – Ginestra line (4.6 km overhead and 2.0 km in cable);
  - **construction** of the new 150kV Pisticci PS - Pisticci 2 substation (0.1 km in cable);
  - **construction** of the new 132kV Conselice PS – Voltana PS line (8.9 km in cable);
  - **construction** of the new 132kV Udine RT - Udine South line (7.3 km in cable);
  - **construction** of the new 132kV Ceva - Lesegno line (6.5 km overhead);
  - **construction** of the new 132kV Cascine PS – Rifredi PS line (2.4 km in cable);
  - **construction** of the new 132kV Livorno RT - Livorno Marzocco SCRI line (1.6 km in cable);
  - **construction** of the new 132kV connection from Montebello to Montebello SCRI (0.1 km in cable);
  - **construction** of 22 in-out derivations with an overall increase of the same number of circuits and 5.8 km of circuit, including: addition of 1 line and 2.9 km at 380kV, addition of 3 lines and 4.0 km at 220kV, addition of 10 lines and removal of 2.4 km at 150kV, addition of 8 lines and 1.3 km at 132kV; a further increase of 25 circuits, without changes in length, derives from the identification of the same number of in-out derivations previously recorded as rigid;
  - **construction of variants, rigid derivations, re-routings and/or changes to grid distribution** adding a total of 23.5 km of circuit, including: addition of 2 lines and 14.8 km at 220kV, removal of 2.5 km at 150kV, removal of 2 lines and addition of 11.2 km at 132kV, addition of 0.1 km at 66kV, addition of 0.1 km at 50kV;
  - **sale** of a portion of 70kV line equal to 1.4km of overhead line to Italcementi;
  - **demolition and/or retirement** of 9 lines amounting to 43.8 km of circuit: Castelluccia - San Sebastiano 220kV (overhead, equal to 1.7 km), Sez. Samatzai - Isili 150kV (overhead, equal to 6.4 km), Civitella - Marino 150kV (overhead, equal to 3.0 km), Casuzze 2° liv. - Casuzze 1° liv. 150kV (overhead, equal to 0.2 km), Edison Teglia - Pontremoli 132kV (overhead, equal to 7.2 km), Avenza - Arquata 132kV (overhead, equal to 5.8 km), formerly Massa Enel - p.113 132kV (overhead, equal to 4.0 km), Ponte Malon - Somprade 132kV (overhead, equal to 0.8 km), Ollastra - Tirso stazione 70kV (overhead, equal to 14.7 km).
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# Taxes paid overseas

With regard to taxes paid overseas by the Group's subsidiaries in 2022, the following should be noted:

## Terna

For activities relating to the Italy–Greece interconnector<sup>114</sup>, income taxes totalling €1,859,423 were paid on income earned in Greece.

## Terna Crna Gora

In 2022, the Company invested a total of €1,498,031 in Montenegro, linked primarily to consents for cables and substations and certain minor assets relating to pending substation work. As regards consents, a user licence was obtained for a fibre system.

Revenue of €15,057,335 and net profit of €5,633,748 were recognised in 2022. Income tax totalling €1,891,342 was recognised, of which €1,462,392 regarded deferred taxes due to tax depreciation rates exceeding statutory rates and deferred tax assets totalling €428,949 based on tax losses posted in previous years and estimated taxable income in future periods. Consequently, the company does not report any current income taxes paid to the Montenegrin government in Montenegro.

As regards other forms of taxation, in 2022 the company paid property taxes totalling €122,810 (including €119,783 on land and buildings it owns in the municipality of Kotor and the remainder on the property used as its registered office, located in the municipality of Podgorica).

Provisions of €49,314 were also made in 2022 to cover future tax liabilities (potential taxation of the converter substation).

## Tamini Group

Approximately €148,249 was paid, primarily regarding taxes on services and withholding tax.

## Terna Chile

The Group's Chilean subsidiary paid taxes totalling 22,142,085 Chilean pesos.

## Brazil

Transmissora de Energia Linha Verde I S.A. paid total income tax of 5,599,162 Brazilian reals.

## Brugg Cables Group

The Brugg Cables, Group, through its subsidiaries operating in China, India and Germany, paid income taxes totalling 100,355 Swiss francs.

## Terna 4 Chacas S.A.C.

The Peruvian subsidiary, Terna 4 Chacas S.A.C., paid value added tax totalling US\$33,066.

<sup>114</sup> Terna's presence in Greece consists of a series of plants and infrastructure assets that provide the DC interconnection between the Italian and Greek electricity systems (the section of submarine cable in Greek territorial waters as well as the terrestrial connection from the terminal for the Greek cable to the Arachthos substation, owned by Terna). As there is a production facility in Greece, a permanent company (or branch) has been established in that country.

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# Alternative performance measures (APMs)

In accordance with the guidelines in ESMA/2015/1415, the alternative performance measures used in this Annual Report are described below

MEASURE	DESCRIPTION
<b>OPERATING RESULTS</b>	
<b>Operating profit/(loss) - EBIT</b>	is an indicator of operating performance obtained by adding <b>Net financial income/(expenses) to Profit/(Loss) before tax</b> .
<b>Gross Operating profit/(loss) - EBITDA</b>	is an indicator of operating performance obtained by adding <b>"Amortisation, depreciation and impairment losses" to Operating profit/(loss) (EBIT)</b> .
<b>TAX RATE</b>	is the amount of tax paid as a proportion of pre-tax profit and is based on the ratio of <b>"Income tax expense" to "Profit/(Loss) before tax"</b> .
<b>FINANCIAL POSITION</b>	
<b>Net working capital</b>	is an indicator of financial position, showing the Group's liquidity position; it is based on the difference between <b>Current assets</b> and <b>Current liabilities</b> of a non-financial nature, as presented in the statement of financial position.
<b>Gross invested capital</b>	is an indicator of financial position, showing the Group's total assets and is obtained by adding <b>Net non-current assets and Net working capital</b> .
<b>Net invested capital</b>	is calculated by deducting <b>Sundry provisions</b> from <b>Gross invested capital</b> .
<b>CASH FLOW</b>	
<b>Net debt</b>	is an indicator of the Group's financial structure and is obtained by deducting <b>Cash and cash equivalents</b> and <b>Financial assets</b> from <b>Short - and long-term financial liabilities</b> and the related <b>derivative instruments</b> .
<b>Free cash flow</b>	is the cash generated by operating activities less capital expenditure and is the difference between <b>Cash flow from operating activities</b> and <b>Cash flow for investing activities</b> .

# Reconciliations

In accordance with the guidelines in ESMA/2015/1415, reconciliations of the reclassified income statement and statement of financial position and of net debt and cash flow of the Terna Group and Terna S.p.A. with the related statutory income statement and statement of financial position are shown below.

## Reconciliation of the Terna Group's reclassified Income Statement and Statement of Financial Position and Net Debt

THE GROUP'S RECLASSIFIED INCOME STATEMENT	(€M)	CONSOLIDATED INCOME STATEMENT
Regulated revenue	2,542.3	
Non-regulated revenue	421.4	"Revenue from sales and services", totalling €2,898.1 million, "Other revenue and income", totalling €66.4 million
Revenue from International Activities	0.8	
Personnel expenses	341.5	"Personnel expenses" after the cost of construction services performed under concessions in Italy in accordance with IFRIC 12 (€6.6 million)
Cost of services, leases and rentals	222.6	"Services" after the cost of construction services performed under concessions in Italy in accordance with IFRIC 12 (€54.3 million)
Materials	241.3	"Raw and consumable materials used" after the cost of construction services performed under concessions in Italy in accordance with IFRIC 12 (€6.5 million)
Other costs	30.6	"Other operating costs"
Quality of service	1.9	
Cost of construction services performed under concession	6.6	"Personnel expenses"
	54.3	"Services"
	6.5	"Raw and consumable materials used"
Net financial income/(expenses)	(100.1)	Points 1, 2 and 3 of letter C- "Financial income and expenses"



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THE GROUP'S RECLASSIFIED STATEMENT OF FINANCIAL POSITION	(€M)	CONSOLIDATED STATEMENT OF FINANCIAL POSITION
Financial assets	508.6	"Investment accounted for using the equity method", "Other non-current assets" and "Non-current financial assets", after the value of cash flow hedges (€75.5 million)
Net energy-related pass-through payables	(1,332.6)	"Trade receivables" relating to the value of energy-related pass-through receivables (€1,260.5 million) and "Trade payables" relating to the value of energy-related pass-through payables (2,593.1 million)
Net receivables resulting from Regulated Activities	778.7	"Trade receivables" relating to the value of receivables resulting from Regulated Activities (€835.0 million) and "Trade payables" relating to the value of payables resulting from Regulated Activities (€56.3 million)
Net trade payables	(775.5)	"Trade payables" after the value of energy-related pass-through payables (€2,593.1 million) and payables resulting from Regulated Activities (€56.3 million) and "Trade receivables" after the value of energy-related pass-through receivables (€1,260.5 million) and the value of receivables resulting from Regulated Activities (€835.0 million)
Net tax liabilities	(50.5)	"Tax assets", "Other current assets" relating to the value of other tax assets (€86.4 million), "Other current liabilities" relating to the value of other tax liabilities (€99.9 million) and "Tax liabilities"
Other liabilities net	(1,352.9)	"Other non-current liabilities", "Other current liabilities" after other tax liabilities (€99.9 million), "Inventories", "Other current assets" after other tax assets (€86.4 million)
Sundry provisions	(68.2)	"Employee benefits", "Provisions for risks and charges" and "Deferred tax assets"
Net assets held for sale	61.1	"Discontinued operations and assets held for sale" and "Liabilities related to discontinued operations and assets held for sale"
Net debt	8,576.3	"Long-term borrowings", "Current portion of long-term borrowings", "Non-current financial liabilities", "Short-term borrowings", "Cash and cash equivalents", "Current financial assets" and "Current financial liabilities" and "Non-current financial assets" relating to the value of cash flow hedges (€75.5 million)

THE GROUP'S ANALYSIS OF NET DEBT	(€M)	CONSOLIDATED STATEMENT OF FINANCIAL POSITION
"Bond issues" and "Borrowings"	10,326.0	Corresponds with "Long-term borrowings" and "Current portions of long-term borrowings"
"Derivative financial instruments" – short- and medium/long-term	172.3	Corresponds with "Non-current financial liabilities", "Current financial liabilities" relating to the value of derivatives (€0.8 million) and "Non-current financial assets" relating to the value of cash flow hedges (€75.5 million) and "Current financial assets" relating to the value of cash flow hedges (€0.2 million)
Other financial liabilities, net	35.8	Corresponds with "Current financial assets" relating to the value of accrued financial income (€8.3 million) and "Current financial liabilities" relating to the value of accrued financial expenses (€44.1 million)
Financial assets	(246.8)	Corresponds with "Current financial assets" relating to the value of other securities (€246.8 million)
Net debt attributable to assets held for sale	(17.9)	Corresponds with "Discontinued operations and assets held for sale" (€17.9 million)

## Reconciliation of the Terna Group's cash flow

(€m)

	CASH FLOW 2022	RECONCILIATION WITH FINANCIAL STATEMENTS	CASH FLOW 2021	RECONCILIATION WITH FINANCIAL STATEMENTS
- Profit for the year	857.7		790.8	
- Amortisation, depreciation and impairment losses	725.7		654.4	
- Net change in provisions	19.8		(72.9)	
Employee benefits		(12.4)		(0.9)
Provisions for risks and charges		6.6		(37.2)
Deferred tax assets		25.6		(34.8)
- Net losses/(gains) on sale of assets <sup>(1)</sup>	(6.9)		(13.7)	
<b>Operating Cash Flow</b>	<b>1,596.3</b>		<b>1,358.6</b>	
- Change in net working capital:	1,024.8		(227.6)	
Inventories		(13.1)		(3.5)
Trade receivables		417.8		(1,530.3)
Income tax assets		(2.0)		4.9
Other current assets		(108.8)		45.2
Discontinued operations and assets held for sale		412.1		1,058.3
Trade payables		15.7		28.1
Tax liabilities		303.1		168.4
- Other changes in non-current assets	(93.1)		171.1	
Goodwill		5.0		(26.4)
Intangible assets <sup>(2)</sup>		(5.5)		9.8
Property, plant and equipment <sup>(3)</sup>		36.2		59.2
Non-current financial assets		(132.8)		127.5
Other non-current assets		1.6		1.4
Investments accounted for using the equity method		2.4		(0.4)
<b>Cash Flow from Operating Activities</b>	<b>2,528.0</b>		<b>1,302.1</b>	
<b>Capital expenditure</b>				
- Total Capital expenditure	(1,756.8)		(1,520.7)	
Property, plant and equipment <sup>(3)</sup>		(1,544.8)		(1,391.9)
Intangible assets <sup>(2)</sup>		(212.0)		(128.8)
<b>Total cash flow from (for) investing activities</b>	<b>(1,756.8)</b>		<b>(1,520.7)</b>	
<b>Free Cash Flow</b>	<b>771.2</b>		<b>(218.6)</b>	
<b>Net assets held for sale</b>	<b>56.6</b>		<b>(117.7)</b>	
- Reserve for equity instruments, cash flow hedge reserve after taxation and other movements in equity attributable to owners of the Parent <sup>(4)</sup>	1,204.1		79.1	
- Other movements in equity attributable to non-controlling interests	(4.7)		(16.3)	
- Dividends paid to Parent Company's shareholders <sup>(4)</sup>	(601.0)		(556.4)	
<b>Change in net debt</b>	<b>1,426.2</b>		<b>(829.9)</b>	
<b>- Change in borrowings</b>	<b>(837.9)</b>		<b>(292.3)</b>	
Non-current financial assets		(73.9)		92.6
Current financial assets		725.3		(342.1)
Non-current financial liabilities		163.5		(170.1)
Long-term borrowings		(418.3)		(1,025.2)
Short-term borrowings		(1,502.9)		944.8
Current portion of long-term borrowings		269.3		252.0
Current financial liabilities		(0.9)		(44.3)
<b>- Change in cash and cash equivalents</b>	<b>588.3</b>		<b>(1,122.2)</b>	

<sup>(1)</sup> included in "Other revenue and income" and "Other operating costs" in the consolidated financial statements.

<sup>(2)</sup> see note 15 to the financial statements.

<sup>(3)</sup> see note 13 to the financial statements.

<sup>(4)</sup> see the consolidated statement of changes in equity.

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### Reconciliation of Terna S.p.A.'s reclassified income statement and statement of financial position and net debt

TERNA'S RECLASSIFIED INCOME STATEMENT	(€M)	INCOME STATEMENT
Tariff revenue	2,273.8	"Revenue from sales and services"
Revenue from construction services performed under concession	67.4	"Revenue from sales and services"
Other operating income	179.3	"Revenue from sales and services", totalling €118.5 million, and "Other revenue and income"
Personnel expenses	101.6	"Personnel expenses" after the cost of construction services performed under concession in accordance with IFRIC 12 (€0.7 million)
Cost of services, leases and rentals	421.0	"Services" after the cost of construction services performed under concession in accordance with IFRIC 12 (€62.0 million)
Materials	1.7	"Raw and consumable materials used" after the cost of construction services performed under concession in accordance with IFRIC 12 (€4.7 million)
Other costs	20.0	"Other operating costs"
Quality of service	1.9	
Cost of construction services performed under concession	0.7	"Personnel expenses"
	62.0	"Services"
	4.7	"Raw and consumable materials used"
Net financial income/(expenses)	(87.1)	Points 1 and 2 of letter C - "Financial income and expenses"

TERNA'S RECLASSIFIED STATEMENT OF FINANCIAL POSITION	(€M)	STATEMENT OF FINANCIAL POSITION
Financial assets	1,566.3	"Non-current financial assets" after the value of cash flow hedges (€75.5 million) and "Other non-current assets" after amounts due from subsidiaries in relation to staff incentive plans (€2.8 million)
Net energy-related pass-through payables	(1,356.4)	"Trade receivables" relating to the value of energy-related pass-through receivables (€1,260.5 million) and "Trade payables" relating to the value of energy-related pass-through payables (€2,616.9 million)
Net receivables resulting from Regulated Activities	778.7	"Trade receivables" relating to the value of receivables resulting from Regulated Activities (€835.0 million) and "Trade payables" relating to the value of payables resulting from Regulated Activities (€56.3 million)
Net trade payables	(758.8)	"Trade payables" after the value of energy-related pass-through payables (€2,616.9 million) and payables resulting from Regulated Activities (€56.3 million) and "Trade receivables" after the value of energy-related pass-through receivables (€1,260.5 million) and the value of receivables resulting from Regulated Activities (€835.0 million)
Net tax liabilities	(103.3)	"Tax assets", "Other current assets" relating to the value of other tax assets (€28.8 million), "Other current liabilities" relating to the value of other tax liabilities (€84.5 million) and "Tax liabilities"
Other liabilities, net	(818.2)	"Other non-current liabilities", "Other current liabilities" after other tax liabilities (€84.5 million), "Inventories", "Other current assets" after other tax assets (€28.8 million) and "Other non-current assets" relating to amounts due from subsidiaries in relation to staff incentive plans (€2.8 million)
Sundry provisions	(37.8)	"Employee benefits", "Provisions for risks and charges" and "Deferred tax assets"
Assets held for sale	-	"Assets held for sale"
Net debt	8,446.0	"Long-term borrowings", "Current portion of long-term borrowings", "Non-current financial liabilities", "Short-term borrowings", "Cash and cash equivalents", "Non-current financial assets" relating to the value of cash flow hedges (€75.5 million), "Current financial assets" and "Current financial liabilities"

TERNA'S ANALYSIS OF NET DEBT	(€M)	STATEMENT OF FINANCIAL POSITION
"Bond issues" and "Borrowings"	10,267.6	Corresponds with "Long-term borrowings" and "Current portions of long-term borrowings"
"Derivative financial instruments"	172.5	Corresponds with "Non-current financial liabilities" and "Current financial liabilities" relating to the value of derivatives (€0.8 million) and "Non-current financial assets" relating to the value of cash flow hedges (€75.5 million)
"Short-term borrowings" and "Other financial liabilities, net"	455.3	Corresponds, respectively, with "Short-term borrowings" and "Current financial liabilities" relating to the value of deferred liabilities (€44.1 million) and "Current financial assets" relating to the value of accrued income (€8.3 million)
Cash and cash equivalents (including the net balance on intercompany current accounts)	(2,202.6)	Corresponds with "Cash and cash equivalents"
Financial assets	(246.8)	Corresponds with "Current financial assets" relating to the value of government securities
Net debt attributable to assets held for sale	-	Included in "Assets held for sale"



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## Reconciliation of Terna S.p.A.'s cash flow

(€m)

	CASH FLOW 2022	RECONCILIATION WITH FINANCIAL STATEMENTS	CASH FLOW 2021	RECONCILIATION WITH FINANCIAL STATEMENTS
- Profit for the year	834.1		735.2	
- Amortisation, depreciation and impairment losses	650.3		585.8	
- Net change in provisions	30.2		(37.9)	
<i>Employee benefits</i>		(2.0)		(1.3)
<i>Provisions for risks and charges</i>		(7.3)		(37.0)
<i>Deferred tax assets</i>		39.5		0.4
- Net losses/(gains) on sale of assets <sup>(1)</sup>	(5.9)		(12.6)	
<b>Operating Cash Flow</b>	<b>1,508.7</b>		<b>1,270.5</b>	
- Change in net working capital:	1,056.1		(162.0)	
<i>Trade receivables</i>		453.8		(1,540.2)
<i>Income tax assets</i>		0.3		(0.3)
<i>Other current assets</i>		(32.6)		13.9
<i>Other non-current assets</i>		(1.4)		(1.1)
<i>Trade payables</i>		425.0		1,206.4
<i>Tax liabilities</i>		16.9		33.9
<i>Other liabilities</i>		194.1		125.4
- Other changes in non-current assets	(145.7)		23.8	
<i>Property, plant and equipment</i> <sup>(2)</sup>		2.1		41.2
<i>Intangible assets</i> <sup>(3)</sup>		-		0.1
<i>Non-current financial assets</i>		(147.7)		(17.1)
<i>Other non-current assets</i>		(0.1)		(0.4)
<b>Cash Flow from Operating Activities</b>	<b>2,419.1</b>		<b>1,132.3</b>	
<b>Capital expenditure</b>				
- Total Capital expenditure	(1,586.9)		(1,376.6)	
<i>Property, plant and equipment</i> <sup>(2)</sup>		(1,376.2)		(1,248.3)
<i>Intangible assets</i> <sup>(3)</sup>		(210.7)		(128.3)
<b>Total cash flow from (for) investing activities</b>	<b>(1,586.9)</b>		<b>(1,376.6)</b>	
<b>Free Cash Flow</b>	<b>832.2</b>		<b>(244.3)</b>	
<b>Net assets held for sale</b>	<b>23.0</b>		<b>(23.0)</b>	
- Dividends <sup>(4)</sup>	(601.0)		(556.4)	
- Cash flow hedge reserve after taxation and other movements in equity <sup>(4)</sup>	1,183.5		67.1	
<b>Change in net debt</b>	<b>1,437.7</b>		<b>(756.6)</b>	
<b>- Change in borrowings</b>	<b>(865.0)</b>		<b>(75.5)</b>	
<i>Current financial assets</i>		725.5		(359.6)
<i>Non-current financial assets</i>		(73.9)		115.1
<i>Non-current financial liabilities</i>		163.5		(167.7)
<i>Long-term borrowings</i>		(441.6)		(816.9)
<i>Short-term borrowings</i>		(1,498.1)		940.5
<i>Current portion of long-term borrowings</i>		260.4		257.1
<i>Current financial liabilities</i>		(0.8)		(44.0)
<b>- Change in cash and cash equivalents</b>	<b>572.7</b>		<b>(832.1)</b>	

<sup>(1)</sup> included in "Other revenue" and "Other operating costs" in the financial statements.

<sup>(2)</sup> see note 11 to the financial statements.

<sup>(3)</sup> see note 13 to the financial statements.

<sup>(4)</sup> see the statement of changes in equity.





# CONSOLIDATED FINANCIAL STATEMENTS





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# Consolidated financial statements

## Consolidated income statement

(€m)

	NOTE	2022	2021
<b>A - REVENUE</b>			
1. Revenue from sales and services	1	2,898.1	2,534.5
<i>of which: related parties</i>		1,718.7	1,766.9
2. Other revenue and income	2	66.4	71.8
<i>of which: related parties</i>		0.8	1.6
<b>Total revenue</b>		<b>2,964.5</b>	<b>2,606.3</b>
<b>B – OPERATING COSTS</b>			
1. Raw and consumable materials used	3	247.8	206.4
<i>of which: related parties</i>		-	0.1
2. Services	4	276.9	218.3
<i>of which: related parties</i>		9.7	11.0
3. Personnel expenses	5	348.1	295.3
- gross personnel expenses		464.2	401.1
- capitalised personnel expenses		(116.1)	(105.8)
<i>of which: related parties</i>		3.7	3.5
4. Amortisation, depreciation and impairment losses	6	725.7	654.4
5. Other operating costs	7	32.5	31.5
<i>of which: related parties</i>		0.1	0.1
<b>Total operating costs</b>		<b>1,631.0</b>	<b>1,405.9</b>
<b>A - B OPERATING PROFIT/(LOSS)</b>		<b>1,333.5</b>	<b>1,200.4</b>
<b>C - FINANCIAL INCOME/(EXPENSES)</b>			
1. Financial income	8	22.7	16.6
2. Financial expenses	8	(121.8)	(95.8)
3. Share of profit/(loss) of investees accounted for using the equity method	9	(1.0)	0.3
<b>D – PROFIT/(LOSS) BEFORE TAX</b>		<b>1,233.4</b>	<b>1,121.5</b>
<b>E – INCOME TAX EXPENSE</b>	<b>10</b>	<b>355.4</b>	<b>317.9</b>
<b>F – PROFIT FOR THE YEAR FROM CONTINUING OPERATIONS</b>		<b>878.0</b>	<b>803.6</b>
<b>G – PROFIT/(LOSS) FOR THE YEAR FROM DISCONTINUED OPERATIONS AND ASSETS HELD FOR SALE</b>	<b>11</b>	<b>(20.3)</b>	<b>(12.8)</b>
<b>H – PROFIT FOR THE YEAR</b>		<b>857.7</b>	<b>790.8</b>
<b>Profit attributable to owners of the Parent</b>		<b>857.0</b>	<b>789.4</b>
<b>Profit attributable to non-controlling interests</b>		<b>0.7</b>	<b>1.4</b>
<b>Earnings per share</b>	<b>12</b>		
Basic earnings per share		0.427	0.393
Diluted earnings per share		0.427	0.393
<b>Earnings per share from continuing operations</b>			
Basic earnings per share	12	0.438	0.400
Diluted earnings per share		0.438	0.400

## Consolidated statement of comprehensive income\*

		(€m)	
	NOTE	2022	2021
<b>PROFIT FOR THE YEAR</b>		<b>857.7</b>	<b>790.8</b>
<i>Other comprehensive income for the year reclassifiable to profit or loss</i>			
- Cash flow hedges	24	223.3	74.9
- Financial assets at fair value through other comprehensive income	24	(4.4)	(3.0)
- Gains/(Losses) from translation of financial statements in currencies other than the euro	24	34.9	5.5
- Cost of hedges	24	(0.6)	0.4
<i>Other comprehensive income for the year not reclassifiable to profit or loss</i>			
- Actuarial gains/(losses) on provisions for employee benefits	24	(10.4)	9.6
<b>Total other comprehensive income</b>		<b>242.8</b>	<b>87.4</b>
<b>COMPREHENSIVE INCOME FOR THE YEAR</b>		<b>1,100.5</b>	<b>878.2</b>
<b>COMPREHENSIVE INCOME FOR THE YEAR ATTRIBUTABLE TO:</b>			
<i>Owners of the Parent</i>		1,101.1	876.8
<i>Non-controlling interests</i>		(0.6)	1.4

\* Amounts are shown net of tax, where applicable.

## Consolidated statement of financial position

(€m)

	NOTE	31 DECEMBER 2022	31 DECEMBER 2021
<b>A - NON-CURRENT ASSETS</b>			
1. Property, plant and equipment	13	16,200.9	15,316.6
<i>of which: related parties</i>		41.1	60.3
2. Goodwill	14	251.5	256.5
3. Intangible assets	15	524.3	400.0
4. Deferred tax assets	16	121.0	146.6
5. Investments accounted for using the equity method	17	73.8	76.2
6. Non-current financial assets	18	494.4	287.7
7. Other non-current assets	19	15.9	17.5
<b>Total non-current assets</b>		<b>17,681.8</b>	<b>16,501.1</b>
<b>B - CURRENT ASSETS</b>			
1. Inventories	20	83.0	69.9
2. Trade receivables	21	2,358.3	2,777.4
<i>of which: related parties</i>		333.2	302.3
3. Current financial assets	18	255.3	980.6
4. Cash and cash equivalents	22	2,155.1	1,566.8
<i>of which: related parties</i>		0.1	0.1
5. Income tax assets	23	6.8	4.8
6. Other current assets	19	191.9	83.1
<b>Total current assets</b>		<b>5,050.4</b>	<b>5,482.6</b>
<b>C - Discontinued operations and assets held for sale</b>	<b>30</b>	<b>70.7</b>	<b>375.5</b>
<b>TOTAL ASSETS</b>		<b>22,802.9</b>	<b>22,359.2</b>

(€m)

	NOTE	31 DECEMBER 2022	31 DECEMBER 2021
<b>D - EQUITY ATTRIBUTABLE TO OWNERS OF THE PARENT</b>			
1. Share capital		442.2	442.2
2. Other reserves		1,875.2	683.4
3. Retained earnings/(accumulated losses)		3,180.9	2,964.3
4. Interim dividend		(213.3)	(197.4)
5. Profit for the year		857.0	789.4
<b>Total equity attributable to owners of the Parent</b>	<b>24</b>	<b>6,142.0</b>	<b>4,681.9</b>
<b>E - EQUITY ATTRIBUTABLE TO NON-CONTROLLING INTERESTS</b>			
<b>Total equity attributable to owners of the Parent and non-controlling interests</b>	<b>24</b>	<b>27.1</b>	<b>31.1</b>
<b>F - NON-CURRENT LIABILITIES</b>			
1. Long-term borrowings	25	8,416.7	8,835.0
2. Employee benefits	26	48.4	60.8
3. Provisions for risks and charges	27	140.8	134.2
4. Non-current financial liabilities	25	247.2	83.7
5. Other non-current liabilities	28	971.4	884.8
<b>Total non-current liabilities</b>		<b>9,824.5</b>	<b>9,998.5</b>
<b>G - CURRENT LIABILITIES</b>			
1. Short-term borrowings	25	444.1	1,947.0
2. Current portion of long-term borrowings	25	1,909.3	1,640.0
3. Trade payables	29	3,687.7	3,275.6
<i>of which: related parties</i>		60.9	59.9
4. Tax expense	29	43.8	28.1
5. Current financial liabilities	25	44.9	45.8
6. Other current liabilities	29	669.9	453.4
<i>of which: related parties</i>		22.7	19.4
<b>Total current liabilities</b>		<b>6,799.7</b>	<b>7,389.9</b>
<b>H - Liabilities related to discontinued operations and assets held for sale</b>	<b>30</b>	<b>9.6</b>	<b>257.8</b>
<b>TOTAL LIABILITIES AND EQUITY</b>		<b>22,802.9</b>	<b>22,359.2</b>

# Consolidated statement of changes in equity

**31 December 2021 - 31 December 2022**
**Group's share capital and reserves**

(€m)

	SHARE CAPITAL	LEGAL RESERVE	SHARE PREMIUM RESERVE	CASH FLOW HEDGE RESERVE	RESERVE FOR TREASURY SHARES	RESERVE FOR EQUITY INSTRUMENTS - PERPETUAL HYBRID BONDS	OTHER RESERVES	RETAINED EARNINGS/ (ACCUMULATED LOSSES)	INTERIM DIVIDEND	PROFIT FOR THE YEAR ATTRIBUTABLE TO OWNERS OF THE PARENT	EQUITY ATTRIBUTABLE TO OWNERS OF THE PARENT	EQUITY ATTRIBUTABLE TO NON- CONTROLLING INTERESTS	EQUITY ATTRIBUTABLE TO OWNERS OF THE PARENT AND NON- CONTROLLING INTERESTS
<b>EQUITY AT 31 DECEMBER 2021</b>	442.2	88.4	20.0	(141.6)	(19.5)		736.1	2,964.3	(197.4)	789.4	4,681.9	31.1	4,713.0
<b>PROFIT FOR THE YEAR</b>										857.0	857.0	0.7	857.7
<b>OTHER COMPREHENSIVE INCOME:</b>													
- Change in fair value of cash flow hedges				223.3							223.3		223.3
- Actuarial gains/(losses) on employee benefits							(10.4)				(10.4)		(10.4)
- Gains/(Losses) from translation of financial statements in currencies other than the euro								36.2			36.2	(1.3)	34.9
- Financial assets at fair value through other comprehensive income							(4.4)				(4.4)		(4.4)
- Cost of hedges				(0.6)							(0.6)		(0.6)
<b>Total other comprehensive income</b>				222.7			(14.8)	36.2			244.1	(1.3)	242.8
<b>COMPREHENSIVE INCOME</b>				222.7			(14.8)	36.2		857.0	1,101.1	(0.6)	1,100.5
<b>TRANSACTIONS WITH SHAREHOLDERS:</b>													
- Appropriation of profit for 2021: <i>Retained earnings</i>								204.3		(204.3)			
<i>Dividends</i>									197.4	(585.1)	(387.7)	(3.4)	(391.1)
- Interim dividend 2022									(213.3)		(213.3)		(213.3)
- Purchase of treasury shares					(10.0)						(10.0)		(10.0)
<b>Total transactions with shareholders</b>					(10.0)			204.3	(15.9)	(789.4)	(611.0)	(3.4)	(614.4)
Change in scope of consolidation								(1.7)			(1.7)		(1.7)
Equity instruments – Perpetual hybrid bonds						989.0					989.0		989.0
Share option reserve							5.8				5.8		5.8
Coupon payable to holders of hybrid bonds								(21.1)			(21.1)		(21.1)
Other changes							(0.9)	(1.1)			(2.0)		(2.0)
<b>Total other changes</b>						989.0	4.9	(23.9)			970.0		970.0
<b>EQUITY AT 31 DECEMBER 2022</b>	442.2	88.4	20.0	81.1	(29.5)	989.0	726.2	3,180.9	(213.3)	857.0	6,142.0	27.1	6,169.1

## 31 December 2020 - 31 December 2021

## Group's share capital and reserves

(€m)

	SHARE CAPITAL	LEGAL RESERVE	SHARE PREMIUM RESERVE	CASH FLOW HEDGE RESERVE	RESERVE FOR TREASURY SHARES	OTHER RESERVES	RETAINED EARNINGS/ (ACCUMULATED LOSSES)	INTERIM DIVIDEND	PROFIT FOR THE YEAR ATTRIBUTABLE TO OWNERS OF THE PARENT	EQUITY ATTRIBUTABLE TO OWNERS OF THE PARENT	EQUITY ATTRIBUTABLE TO NON- CONTROLLING INTERESTS	EQUITY ATTRIBUTABLE TO OWNERS OF THE PARENT AND NON-CONTROLLING INTERESTS
<b>EQUITY AT 31 DECEMBER 2020</b>	442.2	88.4	20.0	(216.9)	(9.5)	731.2	2,711.6	(182.7)	785.5	4,369.8	46.0	4,415.8
<b>PROFIT FOR THE YEAR</b>									789.4	789.4	1.4	790.8
<b>OTHER COMPREHENSIVE INCOME:</b>												
- Change in fair value of cash flow hedges				74.9						74.9		74.9
- Actuarial gains/(losses) on employee benefits						9.6				9.6		9.6
- Gains/(Losses) from translation of financial statements in currencies other than the euro							5.5			5.5		5.5
- Financial assets at fair value through other comprehensive income						(3.0)				(3.0)		(3.0)
- Cost of hedges				0.4						0.4		0.4
<b>Total other comprehensive income</b>				75.3		6.6	5.5			87.4		87.4
<b>COMPREHENSIVE INCOME</b>				75.3		6.6	5.5		789.4	876.8	1.4	878.2
<b>TRANSACTIONS WITH SHAREHOLDERS:</b>												
- Appropriation of profit for 2020:												
<i>Retained earnings</i>							243.8		(243.8)			
<i>Dividends</i>								182.7	(541.7)	(359.0)		(359.0)
- Interim dividend 2021								(197.4)		(197.4)		(197.4)
- Purchase of treasury shares					(10.0)					(10.0)		(10.0)
<b>Total transactions with shareholders</b>					(10.0)		243.8	(14.7)	(785.5)	(566.4)		(566.4)
Change in scope of consolidation						(5.8)	2.0			(3.8)	(16.3)	(20.1)
Share option reserve						4.0				4.0		4.0
Other changes						0.1	1.4			1.5		1.5
<b>Total other changes</b>						(1.7)	3.4			1.7	(16.3)	(14.6)
<b>EQUITY AT 31 DECEMBER 2021</b>	442.2	88.4	20.0	(141.6)	(19.5)	736.1	2,964.3	(197.4)	789.4	4,681.9	31.1	4,713.0

## Consolidated statement of cash flows

(€m)

	NOTE	2022	2021
<b>PROFIT FOR THE YEAR</b>		<b>857.7</b>	<b>790.8</b>
<b>ADJUSTED BY:</b>			
Amortisation, depreciation and impairment losses /(reversals of impairment losses) on non-current property, plant and equipment and intangible assets*	6	736.1	664.8
Accruals to provisions (including provisions for employee benefits) and impairment losses		51.7	28.4
(Gains)/Losses on sale of property, plant and equipment		(6.9)	(13.7)
Financial (income)/expense	8	101.5	99.3
Income tax expense		356.7	321.5
Other non-cash movements		(24.1)	5.2
<b>CASH FLOW FROM OPERATING ACTIVITIES BEFORE CHANGES IN NET WORKING CAPITAL</b>		<b>2,072.7</b>	<b>1,896.3</b>
Increase/(decrease) in provisions (including provisions for employee benefits and taxation)		(36.9)	(70.3)
(Increase)/decrease in inventories		(20.7)	(19.8)
(Increase)/decrease in trade receivables and other current assets		285.9	(1,592.3)
Increase/(decrease) in trade payables and other current liabilities		604.8	1,168.5
Increase/(decrease) in other non-current liabilities		(126.1)	(33.4)
(Increase)/decrease in other non-current assets		14.7	(38.5)
Interest income and other financial income received		64.2	54.3
Interest expense and other financial expenses paid		(154.8)	(214.6)
Income tax paid		(380.1)	(317.9)
<b>CASH FLOW FROM OPERATING ACTIVITIES [A]</b>		<b>2,323.7</b>	<b>832.3</b>
- of which: related parties		(26.6)	(89.6)
Capital expenditure in non-current property, plant and equipment after grants received	13	(1,492.3)	(1,344.2)
Revenue from sale of non-current property, plant and equipment and intangible assets and other movements		15.6	32.9
Capitalised financial expenses		24.8	10.8
Capital expenditure in non-current intangible assets after grants received	15	(212.4)	(130.8)
(Increase)/decrease in investments in associates and joint ventures	17	2.4	(0.4)
Movements in short- and medium/long-term financial investments		(350.5)	600.0
Consideration paid for new acquisitions net of cash		-	(31.6)
Proceed collected from the sale of companies		157.0	-
<b>CASH FLOW FOR INVESTING ACTIVITIES [B]</b>		<b>(1,855.4)</b>	<b>(863.3)</b>
- of which: related parties		19.2	(5.9)
Movement in the reserve for treasury shares	24	(10.0)	(10.0)
Movement in the reserve for equity instruments	24	989.0	-
Dividends paid		(595.8)	(546.7)
Movements in short- and medium/long-term financial liabilities (including short-term portion)**		(289.0)	(480.8)
Increase/(decrease) in retained earnings and accumulated losses	24	(1.7)	2.0
Increase/(decrease) in equity attributable to non-controlling interests	24	-	(16.3)
<b>CASH FLOW FROM FINANCING ACTIVITIES [C]</b>		<b>92.5</b>	<b>(1,051.8)</b>
<b>INCREASE/(DECREASE) IN CASH AND EQUIVALENTS [A+B+C]</b>		<b>560.8</b>	<b>(1,082.8)</b>
Cash and cash equivalents at beginning of year		1,606.2	2,689.0
Cash and cash equivalents at end of year ***		2,167.0	1,606.2
- of which cash and cash equivalents from acquisitions		-	5.4

\* After grants related to assets recognised in the income statement for the year.

\*\* After derivatives and impact of fair value adjustments, including cash movements in right-of-use assets.

\*\*\* Of which "Cash and cash equivalents" at 31 December 2022, totalling €2,155.1 million, and "Cash and cash equivalents" attributable to assets held for sale at 31 December 2022, totalling €11.9 million.





# Notes

## A. Accounting policies and measurement criteria

### Introduction

Terna S.p.A.'s registered office is at Viale Egidio Galbani 70, Rome, Italy. The consolidated financial statements at and for the year ended 31 December 2022 include the Company's financial statements and those of its subsidiaries (the "Group"). The subsidiaries included within the scope of consolidation are listed below.

Publication of the consolidated financial statements was authorised by the Board of Directors on 22 March 2023.

The consolidated financial statements at and for the year ended 31 December 2022 are available for inspection on request at Terna S.p.A.'s registered office at Viale Egidio Galbani 70, Rome, or on the Company's website at [www.terna.it](http://www.terna.it). The Board of Directors has authorised the Chairwoman and the Chief Executive Officer to make any alterations to the form of the financial statements that may be necessary during preparation of the final text to be presented to the Annual General Meeting, and to make any additions and adjustments to the sections concerning significant subsequent events.

The Terna Group is the largest independent transmission system operator in Europe and one of the leading operators in the world in terms of kilometres of line managed (more than 74 thousand kilometres).

It is responsible for the transmission and management of power flows on the high-voltage (HV) and very high-voltage (VHV) grid throughout Italy, in order to guarantee a balance between demand and supply for energy (dispatching). It is also responsible for the planning, construction and maintenance of the grid. It acts as the Italian TSO (Transmission System Operator), having been granted a monopoly under a government concession, and is subject to regulation by Italy's Regulatory Authority for Energy, Networks and the Environment (ARERA) and the guidelines established by the Ministry for Economic Development. It ensures the security, quality and cost-effectiveness of the national electricity system and has the task of developing the grid and integrating it with the European grid. It ensures equal access for all grid users.

As of the financial statements for the year ended 31 December 2021, the Terna Group has complied with the requirement introduced by the European Transparency Directive and publishes its Annual Report using the xhtml format, tagging all the numbers in the consolidated financial statements and the issuer's basic financial information using the ixbrl format. In addition, as of 31 December 2022, all the notes to the consolidated financial statements have been block tagged.

### Compliance with IAS/IFRS

The consolidated financial statements at and for the year ended 31 December 2022 have been prepared in accordance with International Financial Reporting Standards (IFRS), International Accounting Standards (IAS) issued by the International Accounting Standards Board (IASB) and the interpretations of the International Financial Reporting Interpretations Committee (IFRIC) and the Standing Interpretations Committee (SIC), as endorsed by the European Commission ("IFRS"). This document has also been prepared taking into account the provisions of Legislative Decree 38 of 28 February 2005, of the Italian Civil Code and CONSOB Resolutions 15519 ("Provisions governing financial statements in implementation of art. 9, paragraph 3 of Legislative Decree 38/2005") and 15520 ("Amendments to the implementing rules for Legislative Decree 58/1998"), as well as CONSOB Communication DEM/6064293 ("Disclosure requirements for listed issuers and issuers of financial instruments that are widely held among the public pursuant to art. 116 of the Consolidated Law on Finance").

## Basis of presentation

The consolidated financial statements consist of the statement of financial position, the income statement, and the statement of comprehensive income, the statement of cash flows, the statement of changes in equity and the notes thereto.

In the statement of financial position, assets and liabilities are classified on a “current/non-current” basis, with separate reporting of assets and liabilities held for sale. Current assets, which include cash and cash equivalents, are those held for realisation, sale or consumption in the Group’s normal operating cycle; current liabilities are those expected to be settled in the Group’s normal operating cycle or within one year of the end of the financial year.

The income statement is classified on the basis of the nature of costs. The income statement is presented as two statements, the first of which (the income statement) presents revenue and expense items for the year; the second (the statement of comprehensive income) starts with the result for the year and then presents the revenue and expense items that are recognised in equity rather than profit or loss for the year.

The statement of cash flows has been prepared using the indirect method.

The consolidated financial statements are accompanied by the Integrated Report for Terna S.p.A. and the Group, which as from financial year 2008 has been prepared as a single document, exercising the option granted by Legislative Decree 32 of 2 February 2007, which amended art. 40 (Report on Operations) of Legislative Decree 127 of 9 April 1991. From 2021, the Terna Group’s Annual Financial Report contains the Integrated Report, including in a single document the Report on Operations, the Sustainability Report and the Consolidated Non-financial Statement (the “NFS”), in addition to the consolidated financial statements and the Parent Company’s separate financial statements.

These consolidated financial statements are presented in millions of euros and all amounts are shown in millions of euros to the first decimal place, unless otherwise indicated.

Given that the requirements of IFRS 5 have been met, the total results for 2022 and 2021 attributable to the South American subsidiaries included in the planned sale of assets have been classified in the item “Profit/(Loss) for the year from discontinued operations and assets held for sale” in the Group’s consolidated income statement. Likewise, the attributable assets and liabilities at 31 December 2022 and 2021 have been classified in the item “Discontinued operations and assets held for sale” and “Liabilities related to discontinued operations and assets held for sale” in the Group’s consolidated statement of financial position.

Certain amounts in the financial statements at and for the year ended 31 December 2021 have been restated in order to provide an improved basis of comparison, without however modifying the amount of equity at 31 December 2021 or amounts in the income statement and statement of comprehensive income for 2021.

## Use of estimates

Preparation of the consolidated financial statements requires the Group to use estimates and assumptions that affect the carrying amounts of assets and liabilities and the related disclosures, in addition to contingent assets and liabilities at the reporting date. The estimates are made on the basis of the information available to the management at the date of preparation of the financial statements. These estimates and the associated assumptions are based on previous experience and various factors that are believed to be reasonable under the circumstances. The resulting estimates form the basis for making the judgements about the carrying amounts of assets and liabilities that are not readily apparent from other objective sources. Actual results may differ from these estimates.

The estimates and underlying assumptions are reviewed periodically and the effects of any changes are recognised in the income statement for the year, if they relate solely to that period. In the case that the revision affects both current and future years, the change is recorded in the year in which the estimate is reviewed as well as in the relevant future years.

The assets and liabilities subject to estimates and key assumptions used by the Group in applying the IFRS endorsed by the European Commission, and that could have a significant impact on the consolidated financial statements, or that could give rise to risks that would entail significant adjustments to the carrying amounts of assets and liabilities in subsequent years, are summarised below.

## Revenue related to incentives

Recognition in the financial statements of output-based incentives requires management to use estimates and assumptions based on judgements made using actual data and estimates of the quantity and likelihood of future events. In the case of incentive mechanisms where the performance obligation is satisfied over a period of time, the Group estimates how to allocate the reward in the period, estimating the potential for the return of all or part of the accrued amounts. The amount recognised as revenue in the accounting period is the amount that is most likely not to be returned in the future. The Group also evaluates, for each incentive mechanism, whether or not the right (or obligation) is subject to confirmation or verification by the regulator, ARERA.

If the mechanism includes a significant financial component, the Group determines a discount rate that takes into account the credit risk associated with the asset which, given the way in which the mechanisms work and the guarantees provided to Terna under the regulatory framework, broadly coincides with the electricity system.

Certain incentive mechanisms may result in penalties for underperformance.

## Impairment losses

Property, plant and equipment and intangible assets with finite useful lives are tested at least once a year to check for evidence of impairment. If there is evidence that an asset may be impaired, its recoverable amount is estimated.

The recoverable amount of goodwill and intangible assets with indefinite useful lives, where present, as well as intangible assets not yet available for use, is estimated at least annually. The recoverable amount is equal to the greater of the fair value less costs to sell and value in use. Value in use is measured by discounting estimated future cash flows considering information available at the time of estimate and on the basis of estimates of the performance of future variables, such as prices, costs, demand growth rates, production profiles, and discounted at a pre-tax rate that reflects current market assessments of the time value of money for the investment period and risks specific to the asset. If the intangible asset does not generate cash inflows, the asset's recoverable amount is calculated as part of the Cash Generating Unit ("CGU") to which it belongs.

An impairment loss is recognised in the income statement when the asset's carrying amount, or the net invested capital of the CGU to which it belongs, is greater than its recoverable amount.

Impairment losses on CGUs are first taken as a reduction in the carrying amount of any allocated goodwill and then as a reduction in other assets allocated to the CGU on a pro rata basis. Except for goodwill, impairment losses may be reversed up to the recoverable amount or the original cost of the asset if there is an indication that the impairment loss no longer exists or when there is a change in the methods used to measure the recoverable amount.

## Allowance for doubtful accounts

Trade receivables are initially recognised at fair value net of any losses relating to sums considered non-recoverable, for which specific provisions have been made in the allowance for doubtful accounts. Credit losses are determined in application of IFRS 9 (a model based on expected credit losses). This requires the Group to assess expected credit losses, and the related changes, at each reporting date.

Specifically, the Group has applied the simplified approach permitted by IFRS 9 to trade receivables, finance lease receivables and assets deriving from contracts with customers, in order to measure the allowance for doubtful accounts based on expected losses over the life of the receivable. The Group has thus determined the amount of expected credit losses using a provisioning matrix, based on information regarding historical credit losses for similar past due exposures, adjusted to take into account current conditions and forward-looking elements.

## Provisions for risks and charges

Provisions for risks and charges are allocated when a disbursement of cash, for an amount which can be reliably estimated, will be necessary to fulfil a legal or constructive obligation arising as a result of a past event. Where the time value of money is significant, provisions are discounted, using a rate that the Group believes to be appropriate (a rate is used that reflects current market conditions and the specific risks connected with the liability). After initial recognition, the value of the provisions for risks and charges is updated to reflect the passage of time and any changes in the estimate following alterations to the amounts forecast, the timing and the discount rates used. Any increase in provisions associated with the passage of time is recognised in the income statement under "Financial expenses".

Liabilities that can be associated with legal and tax disputes, early retirement incentives, urban and environmental restoration projects and other sundry charges are estimated by the Group. The measurement of provisions for legal disputes is based on the probability of incurring an expense, including through the use of external legal advisors supporting the Group companies; the estimate of provisions to be set aside for urban and environmental restoration projects, the “offsets” aimed at compensating for the environmental impact of the construction of new plant, is based on an analysis of the agreements entered into with the local authorities concerned and the progress of work on construction of the new infrastructure.

## Employee benefits

Post-employment benefits are defined on the basis of plans, even if not formalised, that based on their nature are classified as either “defined benefit” plans or “defined contribution” plans.

The liability for employee benefits paid upon or following termination of employment in relation to defined benefit plans or other long-term benefits is recognised net of any plan assets and is measured on the basis of actuarial assumptions, estimating the amount of future benefits that employees have vested at the reporting date and is recognised on an accruals basis in line with the period of service necessary to obtain the benefit.

Changes in the value of the net liabilities (revaluations) deriving from actuarial gains or losses, resulting from changes in the actuarial assumptions used or adjustments based on past experience, are recognised in other comprehensive income in the year in which they occur. If a plan is modified, curtailed or extinguished, the related effects are recognized in profit or loss.

Net financial expenses include the component of the return on plan assets and the interest cost to be recognised in profit or loss and are measured by multiplying the liabilities, net of any plan assets, by the discount rate applied to the liabilities; net interest on defined benefit plans is recognized in “Financial income/(expenses)”.

The actuarial valuations used to quantify employee benefits (of all plans except termination benefits [*TFR – Trattamento di Fine Rapporto*]) are based on “vested benefits”, applying the projected “unit credit method”. These valuations are based on economic and demographic assumptions: the discount rate (used to determine the current value of the obligation, determined considering returns on high quality bonds in line with the duration of the group of workers measured), the inflation rate, the rate at which future salary levels are expected to rise, the rate of increase for average health reimbursements, rate of increase for electricity prices and demographic factors, such as mortality and invalidity, retirement, resignation, advances and household composition. The method of calculation used for *TFR* consists of discounting to present value, at the measurement date, each estimated payment due to every employee, projected through to the estimated period in which the *TFR* will be paid.

The obligation under defined contribution plans, limited to the payment of contributions to the State or to a legally separate entity (a fund), is measured on the basis of the contributions payable. The cost of such plans is recognised in profit or loss based on the contribution paid during the period.

## Conflict between Russia and Ukraine and macroeconomic environment

The Terna Group has been closely monitoring the current macroeconomic environment and the recent international political events, particularly focusing on geopolitical developments and the relevant legislation.

In this respect, in its Public Statement of 28 October 2022, “European common enforcement priorities for 2022 annual financial reports”, ESMA highlighted the need to ensure the correct degree of transparency in financial reporting in order to adequately reflect the current and, as far as possible, foreseeable impact of the conflict on entities’ financial position, financial performance and cash flows.

Despite the current extremely volatile macroeconomic environment and slowing economic growth, marked by extremely high inflation at global level, monetary tightening by central banks (completely the opposite of the easing seen during Covid-19), rising interest rates, the geopolitical crisis caused by the ongoing conflict between Russia and Ukraine and continuing commodity market tensions, which are affecting the world’s ability to recover from the Covid-19 pandemic, the Group is continuing to focus on delivering on our “Driving Energy” 2021-2025 Industrial Plan. As a result, to date, we are not aware of any circumstances requiring an in-depth assessment of the validity of application of the going concern basis.

This assumption is based on the fact that the largest part of the Group’s income is represented by revenue generated by Regulated Activities in Italy and that this revenue consists of remuneration to cover both operating and capital expenditure,

with both components revised annually based on the performance of inflation and a deflator. In addition, the return on invested capital is based on a WACC that is periodically revised by ARERA to enable the parameters used in calculating the cost of equity and debt to be updated.

Assessment of the impact of the current macroeconomic environment and the conflict between Russia and Ukraine has not, moreover, resulted in trigger events requiring the conduct of an impairment test of the value of the property, plant and equipment owned by the Group or of intangible assets with finite useful lives.

With regard to the recoverable amount of property, plant and equipment and intangible assets with finite useful lives forming part of the RAB (regulated asset base), the assessment of expected future cash flows generated by these assets has shown that the macroeconomic effects of the conflict between Russia and Ukraine have not given rise to impacts constituting trigger events requiring the Group to test for impairment.

In addition, neither the impact of the changed macroeconomic environment or the conflict between Russia and Ukraine has resulted in an increase in credit risk and has not affected the outcome of the measurement of expected credit losses. The Group's trade receivables fall within the hold to collect business model, primarily fall due within 12 months and do not include a significant financial component. The effect of these events has not, therefore, had any impact, including with regard to the identified business model for financial instruments, thus avoiding any changes to the chosen classification.

In addition, fair value measurement of the financial assets and liabilities held by the Group has not undergone changes in terms of an increase in the related risks (market, liquidity and credit). Similarly, movements in the underlying assumptions have not altered the sensitivity analyses linked to their measurement.

In terms of recoverable amount, it should be noted that there has not been any deterioration in 2022 in the receivables due from the Group's main counterparties (dispatching customers for injections or for withdrawals and distributors), considered solvent by the market and therefore assigned high credit ratings.

As described in more detail in the section, "Credit risk", management of this risk is also driven by the provisions of ARERA Resolution 111/06, which introduced instruments designed to limit the risks related to the insolvency of dispatching customers, both on a preventive basis and in the event of an actual insolvency. The assessment conducted has, moreover, not provided evidence of the need to modify the model used following an evaluation of the impact of the conflict.

Terna is not exposed to any risk of greater contract expenses due to rising inflation or increased costs incurred as a result of rising commodity and energy prices and salaries, or to the possibility that, as an issuer of financial instruments, it is unable to pass such increases on by raising the prices of its own services or goods. This is because any price increases agreed by law are covered by tariff revisions, which envisage adjustments for inflation.

It should, moreover, be noted that Terna S.p.A. and its subsidiaries do not have offices or significant operations in the regions affected by the conflict.

## Climate change

Awareness of the progress of climate change and its effects has led to a growing need to provide disclosure in Report on Operations. Although there is no international accounting standard governing how the impact of climate change should be taken into account in the preparation of financial statements, the IASB has issued certain documents providing support for IFRS-adopters seeking to satisfy the demand for disclosure from interested parties. Similarly, ESMA, in its European Common Enforcement Priorities dated 28 October 2022, highlighted the need for issuers to consider climate risks when preparing their IFRS financial statements to the extent that such risks are material, regardless of whether or not this is explicitly required by the relevant accounting standards.

The Terna Group describes its considerations on the actions linked to the need to mitigate the impact of climate change primarily in the sections, "Reference Scenario – Energy scenario" and "Opportunities and risks linked to climate change" in the Report on Operations. In these sections, as a TSO providing transmission and dispatching services, the Terna Group undoubtedly plays an active role in supporting the system in achieving the challenging targets linked to efforts to reduce CO<sub>2</sub>

emissions. Indeed, in addition to the emissions connected with electricity consumption, the most significant component relating to Terna's indirect emissions is linked to grid losses that in turn lead to the indirect need to produce CO<sub>2</sub> to offset such losses with additional electricity. In themselves, a TSO's emissions (scopes 1 and 2 in the 'GHG emission protocol') are extremely modest when compared with the potential system-level reduction resulting from the integration of renewable sources and electrification.

The Group has chosen to report its considerations on climate change in a single note. The following is a summary of management's considerations on aspects deemed material.

## IAS 1 – Presentation of Financial Statements

In the event of uncertainties, IAS 1 requires entities to analyse potential impacts in terms of the entity's ability to continue as a going concern and, with regard to the assumptions and estimates made when preparing the financial statements. Entities are required to provide disclosure of the forward-looking estimates used and that have a significant risk of resulting in a material adjustment within the next financial year. As recommended by ESMA, which, as mentioned above, requires entities to take into account climate risks when preparing financial statements, disclosures are provided that, despite not being specifically required by IFRS, are relevant to an understanding of the financial statements.

In terms of the short term, management has not identified any specific effects of climate-related risks to be considered when applying the accounting standards.

With regard to the medium to long term, management has identified risks primarily linked to the Company's role as a TSO, deriving from the need to adapt the electricity grid in the form of work designed to boost resilience and allow it to handle the new profile and mix of the energy injected into the grid. However, as described in greater detail in the specific sections that follow, the steps planned with the aim of mitigating such risks do not require further consideration during application of the accounting standards used in preparation of these financial statements.

It should be noted, however, that assessment and, more specifically, quantification of climate-related risks generally requires the use of highly uncertain future-oriented assumptions, such as future technological and policy developments and Government measures.

## IAS 16 – Property, Plant and Equipment

With specific regard to the grid and the related transmission service, the action plan requires a commitment to the planning, approval and delivery of investment projects related to work in response to current and future needs to integrate renewable sources, guarantee the reliability, security, adequacy and efficiency of the electricity system, such as, for example, cross-border interconnections and the development of infrastructure to enable the growing integration of renewable energy sources.

In addition, as described in the Group's Risk Framework, the Group is exposed to the risks linked to the increased intensity of weather events (tornados, heavy snowfall, ice, flooding) with a resulting impact on the continuity and quality of the service provided by Terna and/or damage to equipment, machinery, infrastructure and the grid. In response, the Group continues to carry out new investment designed to increase the resilience of the electricity grid and identify mitigation strategies.

In line with our role in driving the country's energy transition, Terna's strategic plans, further described in the chapter "The value creation strategy", include action to tackle climate change, identifying:

- the works needed to develop and strengthen the electricity grid in the ten-year Development Plan, including overseas interconnections, to ensure the integration of renewable sources;
- tools to ensure the security and reliability of the electricity system in the Security Plan, in a scenario where renewable sources are increasingly more widespread and thermoelectric plants are decommissioned, resulting in issues relating to system inertia and voltage regulation;
- predictive solutions for maintenance and renewal in the Renewal Plan for electricity assets.

Common to all these plans is the Resilience Plan, which includes all the initiatives designed to increase grid resilience to enable it to withstand increasingly intense and frequent severe weather events, damaging infrastructure and resulting in outages at plants connected to the NTG. For example, it involves the development of innovative technologies through structured collaborations with start-ups (“Open Innovation”), designed to monitor weather events and increase NTG resilience.

Mitigating climate-related risk also involves the need to plan maintenance of NTG infrastructure to ensure quality of service, the security of the assets operated (power lines and electricity substations) and their ability to remain fully operational.

In addition to initiatives falling within the scope of the Group’s routine maintenance programmes, in this regard, Terna is increasingly required to carry out work on the grid that calls for the replacement of specific components. Aside from renewing grid infrastructure, this enables the Company to mitigate the risk arising from the increased intensity and frequency of disruptive weather events. Management considers that this investment does not reduce or modify the expected economic benefits deriving from use of the existing grid accounted for in property, plant and equipment. In the light of the above, it has not been necessary to conduct a critical review of the useful lives of the fixed assets recognised in the financial statements.

The Group also considers that there may be a risk connected with the supply chain due to significant changes in the strategies of key suppliers. This risk is heightened by the crisis in the global supply chain following the pandemic and the conflict between Russia and Ukraine, the energy transition launched in many countries, with a potential impact on construction and maintenance projects, and a resulting impact on the continuity and quality of service and on the time needed to complete infrastructure. The Group constantly monitors developments in the supply chain and has not so far identified any critical issues.

## IAS 38 – Intangible Assets

With regard to non-regulated activities, the Group is committed to developing innovative, digital technological solutions to support the ecological transition. These activities include the offerings of the Tamini Group and Brugg Cables Group, the subsidiaries that produce power transformers and terrestrial cables, respectively (industrial activities), involving the development of expertise throughout the value chain, and the offer of Energy Solutions and Connectivity. In addition, the Group is also committed to investing in digitalisation and innovation, involving the development of solutions for the remote control of electricity substations and key infrastructure. This involves the installation of sensor, monitoring and diagnostic systems, including predictive solutions, improving the security of the grid and the surrounding area.

With the Resilience Methodology, approved by ARERA in Resolution 9/2022, Terna has established a new innovative and probabilistic tool to plan work that will increase the resilience of the NTG. This involves measuring the related benefit in terms of reducing expected energy not supplied, above all due to ice, snow and strong winds.

The Group has also developed tools for studying and planning new works designed to respond to issues relating to climate change. To promote the spread of a well-informed energy culture and facilitate broad awareness of the issues faced by the electricity sector, in 2021, the Group developed a new Development Plan application and the digital platform called Terna4Green with a view to monitoring the progress made towards Italy’s decarbonisation. Via these two new initiatives, Terna continues and strengthens its commitment to ever greater transparency and the spread of information and data, specific expertise and in-depth knowledge of the national electricity system.



In response to the risk linked to the greater intensity and frequency of extreme weather events (tornados, heavy snowfall, ice, flooding), the Group could also benefit from the “Patentability” of the above innovative solutions, with resulting non-regulated business opportunities.

Investment in research is expensed as incurred, whilst development costs that meet certain requirements may be recognised as intangible assets. Further information on the criteria used in the recognition of an intangible asset resulting from development work is provided in the paragraph “Intangible assets”.

## IAS 36 – Impairment of Assets

As indicated above with regard to property, plant and equipment, management has not identified factors requiring a critical review of useful lives. Similarly, with regard to the risk of impairment losses on property, plant and equipment, management considers that, whilst the steps taken to mitigate climate-related risk involve the need to plan maintenance work on NTG infrastructure, in keeping with the past, so as to ensure quality of service, the security of the assets operated (power lines and electricity substations) and their ability to remain fully operational, these activities do not, in any event, have a negative impact on the measurement of fair value less costs of disposal. This is because a market operator would take this investment into account as part of the fair value measurement process.

## IFRS 9 – Financial Instruments

With regard to borrowings and bond issues, the Group has obtained ESG-linked loans and has issued green bonds, as further described in the section “Sustainable Finance”. In terms of borrowings (other than “Green Bonds”) there is a link between the achievement or not of ESG targets and the related interest payment mechanisms. The Group believes that there may thus be a risk, albeit not significant, connected with the achievement of such goals. Failure to achieve the targets within a contractually agreed date would result in a slight increase in the cost of debt. Nevertheless, the impact of this risk on financial expenses is entirely negligible. The Group constantly monitors activities relating to climate change and has not so far identified any critical issues.

## IAS 37 - Provisions, Contingent Liabilities and Contingent Assets

The legislation introduced in response to climate change may give rise to new obligations that did not previously exist. In this regard, the Terna Group has introduced an environmental policy setting out its commitment to containing and reducing its environmental impact, in some cases going beyond legal requirements when this does not compromise the protection of other general interests provided for under the concession. Full implementation of this policy, which also covers efforts to reduce greenhouse gas emissions, also involved energy efficiency initiatives and the adoption of measures designed to protect birdlife. Terna extends the issue of environmental protection to both its supply chain and local stakeholders directly affected by NTG development projects, through increasingly eco-sustainable offsets.

Given the regulatory framework, management does not believe that such policies give rise to the need to recognise liabilities not previously accounted for. The same conclusion has also been reached with regard to the previously mentioned risk linked to the supply chain due to significant changes in the strategies of key suppliers. As a result, it has not been necessary to carry out a critical review of provisions in the financial statements.

## IFRS 15 – Revenue from Contracts with Customers

In terms of Regulated Activities, part of the remuneration for transmission and dispatching services derives from regulatory incentive mechanisms linked to specific targets. The achievement of these targets may be influenced by climate change risks, as for example the intensification of extreme weather events could have an impact on the continuity and quality of the service offered by Terna. The Group monitors these risks and, at this time, has not identified a need to revise the estimates relating to these incentives.

With regard to Non-regulated Activities, above all Energy Solutions, given the portfolio of products and services offered to promote the development of renewable energy in Italy, for example through the construction and operation of photovoltaic plants, infrastructure connecting the photovoltaic plants to the grid and services offered to industrial clients, and with regard to the production of cables and transformers, the Group is not exposed to new uncertainties having an impact on the current revenue recognition model. In addition, the Group did not deem it necessary to conduct a review of existing contracts.

Climate change and the subsequent adoption of policies designed to reduce CO<sub>2</sub> emissions and achieve Net Zero Emissions targets by most industrial clients could result in increased business opportunities.

## IFRS 2 – Share-based Payments

The current long-term incentive plans, so called Performance Share Plans, are 25% linked to the inclusion of a series of ESG indices, selected to represent the Group's ability to deliver an all-round sustainability performance, including the Dow Jones Sustainability Index World, Stoxx ESG Leaders and the MIB 40 ESG. The inclusion is subject to assessments conducted by three rating agencies: S&P Global, Sustainalytics and Moody's ESG in that order. A significant part of these assessments is linked to the issue of climate change: specifically, in order to be included in the selected ESG indexes every year, and for the whole duration of the LTI Plan, performance and positioning in terms of, for example, climate strategy, the assessment and management of climate risks, cuts in greenhouse gas emissions and public disclosures on relevant metrics, is of great importance.

## Subsidiaries and scope of consolidation

The scope of consolidation includes the Parent Company, Terna S.p.A., and the companies over which it has the power to directly or indirectly exercise control, as defined by IFRS 10. Control exists when the Parent Company has the power or the ability to influence the relevant activities (having a substantial impact on the Parent Company's results), and is exposed to or has the right to variable returns from its involvement with the investee, and the ability to use its power over the subsidiaries to affect the amount of the investor's returns. The financial statements of subsidiaries are consolidated on a line-by-line basis from the date when the Parent Company gains control until the date when such control ceases.

The companies included within the scope of consolidation are listed below:

NAME	REGISTERED OFFICE	CURRENCY	SHARE CAPITAL	% INTEREST	METHOD OF CONSOLIDATION
<b>SUBSIDIARIES CONTROLLED DIRECTLY BY TERNA S.P.A.</b>					
<b>Terna Rete Italia S.p.A.</b>	<b>Rome</b>	<b>Euro</b>	<b>300,000</b>	<b>100%</b>	<b>Line-by-line</b>
Business	Design, construction, management, development, operation and maintenance of power lines and grid infrastructure and other grid-related infrastructure, plant and equipment used in the above electricity transmission and dispatching activities and in similar, related and connected sectors.				
<b>Terna Crna Gora d.o.o.</b>	<b>Podgorica (Montenegro)</b>	<b>Euro</b>	<b>208,000,000</b>	<b>100%</b>	<b>Line-by-line</b>
Business	Authorisation, construction and operation of the transmission infrastructure forming the Italy-Montenegro interconnector on Montenegrin territory.				
<b>Terna Plus S.r.l.</b>	<b>Rome</b>	<b>Euro</b>	<b>16,050,000</b>	<b>100%</b>	<b>Line-by-line</b>
Business	Design, construction, management, development, operation and maintenance of plant, equipment and infrastructure for grids and systems, including distributed storage and pumping and/or storage systems.				
<b>Terna Interconnector S.r.l.</b>	<b>Rome</b>	<b>Euro</b>	<b>10,000</b>	<b>65%*</b>	<b>Line-by-line</b>
Business	Responsible for construction and operation of the private section of the Italy-France interconnector and civil works on the public section.				
<b>Rete S.r.l.</b>	<b>Rome</b>	<b>Euro</b>	<b>387,267,082</b>	<b>100%</b>	<b>Line-by-line</b>
Business	Design, construction, management, development, operation and maintenance of high-voltage power lines.				
<b>Terna Energy Solutions S.r.l.</b>	<b>Rome</b>	<b>Euro</b>	<b>2,000,000</b>	<b>100%</b>	<b>Line-by-line</b>
Business	Design, construction, management, development, operation and maintenance of distributed energy storage systems, pumping and/or storage systems, plant, equipment and infrastructure, including grids; research, consultancy and assistance in matters relating to the core business; any other activity capable of improving the use and development of plant, resources and expertise.				
<b>ESPERIA-CC S.r.l.</b>	<b>Rome</b>	<b>Euro</b>	<b>10,000</b>	<b>1%**</b>	<b>Line-by-line</b>
Business	A technical centre owned by a number of transmission system operators, which acts as the regional security coordinator for the TSOs, with the aim of improving and upgrading the security and coordination of the electricity system in south-eastern Europe.				
<b>Terna Forward</b>	<b>Rome</b>	<b>Euro</b>	<b>10,000</b>	<b>100%</b>	<b>Line-by-line</b>
Business	Development of new technological solutions for the Terna Group, investing in start-ups and small, medium and large enterprises with high innovation and technological potential.				

\* 5% is held by Terna Rete Italia S.p.A. and 30% by Transenergia S.r.l.

\*\* 99% is held by Selene CC S.A.

NAME	REGISTERED OFFICE	CURRENCY	SHARE CAPITAL	% INTEREST	METHOD OF CONSOLIDATION
<b>SUBSIDIARIES CONTROLLED THROUGH TERNA PLUS S.R.L.</b>					
<b>Terna Chile S.p.A.</b>	<b>Santiago del Chile (Chile)</b>	<b>Chilean peso</b>	<b>2,315,194,500</b>	<b>100%</b>	<b>Line-by-line</b>
Business	Design, construction, administration, development, operation and maintenance of any type of electricity system, plant, equipment and infrastructure, including interconnectors; provision of all types of product and service, construction, electrical and civil engineering work; research, consultancy and assistance in matters relating to the core business; any other activity capable of improving the use and development of plant, resources and expertise.				
<b>Terna Peru S.A.C.</b>	<b>Lima (Peru)</b>	<b>Sales</b>	<b>116,813,900</b>	<b>99.99%*</b>	<b>Line-by-line</b>
Business	Design, construction, administration, development, operation and maintenance of any type of electricity system, plant, equipment and infrastructure, including interconnectors; provision of all types of product and service, construction, electrical and civil engineering work; research, consultancy and assistance in matters relating to the core business; any other activity capable of improving the use and development of plant, resources and expertise.				
<b>Terna 4 Chacas S.A.C.</b>	<b>Lima (Peru)</b>	<b>Sales</b>	<b>13,734,560</b>	<b>99.99%*</b>	<b>Line-by-line</b>
Business	Responsible for construction of a new 16 km power line in Peru.				
<b>SPE Transmissora de energia Linha Verde I S.A.</b>	<b>Belo Horizonte (Brazil)</b>	<b>Real</b>	<b>434,999,313</b>	<b>75%**</b>	<b>Line-by-line</b>
Business	Provision of public electricity transmission services, including construction, operation and maintenance of electricity transmission infrastructure or any other activity necessary in order to fulfil the above purpose.				
<b>TERNA USA LLC.</b>	<b>New York (USA)</b>	<b>US dollar</b>	<b>1</b>	<b>100%</b>	<b>Line-by-line</b>
Business	Acquisition, development and construction of major infrastructure projects regarding onshore and offshore electricity transmission in the United States.				

\* 0.01% Terna Chile S.p.A.

\*\* 25% Quebec Holding Eireli

NAME	REGISTERED OFFICE	CURRENCY	SHARE CAPITAL	% INTEREST	METHOD OF CONSOLIDATION
<b>SUBSIDIARIES CONTROLLED THROUGH TERNA ENERGY SOLUTIONS S.R.L.</b>					
<b>Tamini Trasformatori S.r.l.</b>	<b>Legnano (MI)</b>	<b>Euro</b>	<b>4,285,714</b>	<b>100%</b>	<b>Line-by-line</b>
Business	Construction, repair and trading in electrical equipment.				
<b>Avvenia The Energy Innovator S.r.l.</b>	<b>Rome</b>	<b>Euro</b>	<b>10,000</b>	<b>100%</b>	<b>Line-by-line</b>
Business	Provision of energy efficiency, energy consulting and process engineering services to companies and public and private entities; the application of technology to increase energy end-use efficiency; the design, construction, development and maintenance of plant, equipment and infrastructure for networks and other uses.				
<b>Brugg Kabel Services AG</b>	<b>Brugg (Switzerland)</b>	<b>Swiss franc</b>	<b>1,000,000</b>	<b>100%</b>	<b>Line-by-line</b>
Business	Commercialisation of terrestrial cables for use in electricity transmission.				
<b>LT S.r.l.</b>	<b>Rome</b>	<b>Euro</b>	<b>400,000</b>	<b>75%*</b>	<b>Line-by-line</b>
Business	Design, construction and maintenance of renewable power plants.				
<b>SUBSIDIARIES CONTROLLED THROUGH TAMINI TRASFORMATORE S.R.L.</b>					
<b>Tamini Transformers USA LLC</b>	<b>Sewickley - Pennsylvania</b>	<b>US dollar</b>	<b>52,089</b>	<b>100%</b>	<b>Line-by-line</b>
Business	Commercialisation of industrial-grade and high-power electricity transformers.				
<b>Tamini Trasformatore India Private Limited</b>	<b>Maharashtra (India)</b>	<b>Indian rupee</b>	<b>13,175,000</b>	<b>100%</b>	<b>Line-by-line</b>
Business	Commercialisation of industrial-grade and high-power electricity transformers.				
<b>SUBSIDIARIES CONTROLLED THROUGH BRUGG KABEL SERVICES AG</b>					
<b>Brugg Kabel Manufacturing AG</b>	<b>Brugg (Switzerland)</b>	<b>Swiss franc</b>	<b>7,000,000</b>	<b>100%</b>	<b>Line-by-line</b>
Business	Commercialisation of terrestrial cables for use in electricity transmission.				
<b>Brugg Kabel AG</b>	<b>Brugg (Switzerland)</b>	<b>Swiss franc</b>	<b>22,000,000</b>	<b>90%**</b>	<b>Line-by-line</b>
Business	Commercialisation of terrestrial cables for use in electricity transmission.				
<b>SUBSIDIARIES CONTROLLED THROUGH BRUGG KABEL MANUFACTURING AG</b>					
<b>Brugg Cables Italia S.r.l.</b>	<b>Milan</b>	<b>Euro</b>	<b>10,000</b>	<b>100%</b>	<b>Line-by-line</b>
Business	Commercialisation of terrestrial cables for use in electricity transmission.				
<b>SUBSIDIARIES CONTROLLED THROUGH BRUGG KABEL AG</b>					
<b>Brugg Cables Middle East DMCC</b>	<b>Dubai (UAE)</b>	<b>Dirham</b>	<b>100,000</b>	<b>100%</b>	<b>Line-by-line</b>
Business	Commercialisation of terrestrial cables for use in electricity transmission.				
<b>Brugg Kabel GmbH</b>	<b>Schwieberdingen (Germany)</b>	<b>Euro</b>	<b>103,000</b>	<b>100%</b>	<b>Line-by-line</b>
Business	Commercialisation of terrestrial cables for use in electricity transmission.				
<b>Brugg Cables (Shanghai) Co. Ltd</b>	<b>Shanghai</b>	<b>US dollar</b>	<b>1,600,000</b>	<b>100%</b>	<b>Line-by-line</b>
Business	Commercialisation of terrestrial cables for use in electricity transmission.				
<b>Brugg Cables (India) Pvt. Ltd</b>	<b>Haryana (India)</b>	<b>Indian rupee</b>	<b>48,000,000</b>	<b>99.74%***</b>	<b>Line-by-line</b>
Business	Commercialisation of terrestrial cables for use in electricity transmission.				
<b>Brugg Cables Middle East Contracting LLC</b>	<b>Dubai (UAE)</b>	<b>Dirham</b>	<b>200,000</b>	<b>100%</b>	<b>Line-by-line</b>
Business	Commercialisation of terrestrial cables for use in electricity transmission.				
<b>Brugg Cables Inc USA</b>	<b>Chicago (USA)</b>	<b>US dollar</b>	<b>1,000</b>	<b>100%</b>	<b>Line-by-line</b>
Business	Commercialisation of terrestrial cables for use in electricity transmission.				
<b>Brugg Cables Company Saudi Arabia</b>	<b>Riyadh (Saudi Arabia)</b>	<b>Saudi Riyal</b>	<b>50,000</b>	<b>100%</b>	<b>Line-by-line</b>
Business	Commercialisation of terrestrial cables for use in electricity transmission.				
<b>SUBSIDIARIES CONTROLLED THROUGH BRUGG CABLES (SHANGHAI) CO. LTD</b>					
<b>Brugg Cables (Suzhou) Co. Ltd</b>	<b>Suzhou (China)</b>	<b>Chinese renminbi</b>	<b>32,000,000</b>	<b>100%</b>	<b>Line-by-line</b>
Business	Commercialisation of terrestrial cables for use in electricity transmission.				
<b>SUBSIDIARIES CONTROLLED THROUGH LT S.r.l.</b>					
<b>Halfbridge Automation S.r.l.</b>	<b>Rome</b>	<b>Euro</b>	<b>10,000</b>	<b>70%****</b>	<b>Line-by-line</b>
Business	Research, design and production of electronic circuit boards for innovative energy efficiency systems.				

\* 25% Solaris S.r.l.

\*\* 10% BRUGG GROUP AG

\*\*\* 0.26% Brugg Kabel GmbH

\*\*\*\* 30% Vima Technologies S.r.l.

The following changes in the structure of the Group have taken place with respect to 31 December 2021:

#### Companies established:

- The US-registered company, Terna USA LLC., a wholly owned subsidiary of Terna Plus S.r.l., was established on 2 August 2022. The company is responsible for overseeing development of the business in North America;
- Terna Forward S.r.l., engaged in the development of new technological solutions for use by the Terna Group and a wholly owned subsidiary of the parent Company, Terna S.p.A., was established on 11 November 2022.

#### Liquidations and disposals:

- the voluntary liquidation of PI.SA. 2 S.r.l., which began on 10 December 2021, was completed on 27 January 2022;
- the first transaction closing for the sale to CDPQ of the Brazilian companies, SPE Transmissora de Energia Linha Verde II S.A., SPE Santa Lucia Transmissora de Energia S.A. and SPE Santa Maria Transmissora de Energia S.A., was completed on 7 November 2022. From this date, the companies are no longer a part of the Terna Group;
- the second transaction closing for the sale to CDPQ of Difebal S.A. was completed on 22 December 2022. From this date, the company is no longer a part of the Terna Group.

## Associates

Associates are investees over which the Terna Group exercises significant influence, being the ability to participate in the determination of these companies' financial and operating policies, without having control or joint control. In assessing whether or not Terna has significant influence, potential voting rights that are exercisable or convertible are also taken into account.

These investments are initially recognised at cost and subsequently measured using the equity method. The profits or losses attributable to the Group are recognised in the consolidated financial statements when significant influence begins and until that influence ceases. Based on application of the equity method, if there is evidence that the investment has been impaired, the Group determines the amount of the impairment based on the difference between the recoverable amount and the carrying amount of the investment in question. In the event that the loss attributable to the Group exceeds the carrying amount of the equity interest, the latter is written off and any excess is recognised in a specific provision, if the Parent Company is required to meet the legal or constructive obligations of the investee or, in any case, to cover its losses.

The list of associates is shown below:

								(€m)
NAME	REGISTERED OFFICE	CURRENCY	SHARE CAPITAL*	PROFIT FOR THE YEAR*	% INTEREST	METHOD OF CONSOLIDATION	CARRYING AMOUNT AT 31 DECEMBER 2022 (€M)	
<b>ASSOCIATES</b>								
<b>Cesi S.p.A.</b>	<b>Milan</b>	<b>Euro</b>	<b>8,550,000</b>	<b>(9,690,980)</b>	<b>42.698%</b>	<b>Equity Method</b>	<b>45.4</b>	
Business	Experimental research and provision of services related to electro-technology.							
<b>Coreso S.A.</b>	<b>Bruxelles (Belgium)</b>	<b>Euro</b>	<b>1,000,000</b>	<b>728,400</b>	<b>15.84%</b>	<b>Equity Method</b>	<b>0.8</b>	
Business	Technical centre owned by several electricity transmission operators, responsible for coordinating joint operations of TSOs, in order to improve and upgrade the security and coordination of the electricity system in central and western Europe.							
<b>CGES A.D.</b>	<b>Podgorica (Montenegro)</b>	<b>Euro</b>	<b>155,108,283</b>	<b>16,852,684</b>	<b>22.0889%</b>	<b>Equity Method</b>	<b>26.7</b>	
Business	Provision of transmission and dispatching services in Montenegro.							
<b>Equigy B.V.</b>	<b>Arnhem (Netherlands)</b>	<b>Euro</b>	<b>50,000</b>	<b>1,292,744</b>	<b>20%</b>	<b>Equity Method</b>	<b>0.4</b>	
Business	Provision of support for electricity balancing by TSOs through the development and implementation of blockchain technology.							

\* Figures taken from the latest approved financial statements at the date of preparation of this document.

## Joint arrangements

Investments in joint arrangements, in which the Group exercises joint control with other entities, are recognised initially at cost and subsequently measured using the equity method. The profits or losses attributable to the Group are recognised in the consolidated financial statements when joint control begins and until that control ceases. The Group recognises its share of the assets and liabilities attributable to joint arrangements in accordance with IFRS 11.

In assessing the existence of joint control, it is ascertained whether the parties are bound by a contractual agreement and whether this agreement attributes to the parties the joint control of the agreement itself. Joint control exists when an entity has control over an arrangement on a contractual basis, and only when decisions relating to the relevant activities require the unanimous consent of all parties that jointly control the arrangement.

The list of joint ventures is shown below:

(€m)

NAME	REGISTERED OFFICE	CURRENCY	SHARE CAPITAL*	PROFIT FOR THE YEAR*	% INTEREST	METHOD OF CONSOLIDATION	CARRYING AMOUNT AT 31 DECEMBER 2022 (€M)
<b>JOINT VENTURES</b>							
<b>ELMED Etudes S.a.r.l.</b>	<b>Tunis (Tunisia)</b>	<b>Tunisian dinar</b>	<b>1,527,120</b>	<b>(173,404)</b>	<b>50%</b>	<b>Equity Method</b>	<b>0.2</b>
Business	Conduct of preparatory studies for the construction of the infrastructure required to connect the Tunisian and Italian electricity system.						
<b>SEleNe CC S.A.</b>	<b>Thessaloniki (Greece)</b>	<b>Euro</b>	<b>200,000</b>	<b>12,479</b>	<b>25%</b>	<b>Equity Method</b>	<b>0.1</b>
Business	A technical centre owned by a number of transmission system operators, which acts as the regional security coordinator for the TSOs, with the aim of improving and upgrading the security and coordination of the electricity system in south-eastern Europe.						
<b>BMT Energy Transmission Development LLC</b>	<b>Wilmington (USA)</b>	<b>US Dollar</b>	<b>500,000</b>	<b>-</b>	<b>40%</b>	<b>Equity Method</b>	<b>0.2</b>
Business	Acquisition, development and construction of major infrastructure projects regarding onshore and offshore electricity transmission in the United States.						

\* Figures taken from the latest approved financial statements at the date of preparation of this document.

Compared with 31 December 2021, the US-registered company, BMT Energy Transmission Development LLC, 40% owned by the subsidiary, Terna USA LLC, with the remaining shares held by non-controlling shareholders, was established on 2 November 2022.

## Basis of consolidation

All the separate financial statements of the investees used to prepare the consolidated financial statements were drafted as of 31 December 2022 and have been approved by their respective Boards of Directors and, for the most part, by shareholders; they have been adjusted, where necessary, to align them with the Parent Company's accounting policies. During preparation of the consolidated financial statements, intercompany balances, transactions, revenue and costs are fully eliminated, net of the related tax effect, where material ("consolidation on a line-by-line basis").

Unrealised gains and losses on transactions with associates and joint ventures are eliminated in proportion to the Group's interest therein. In both cases, unrealised losses are eliminated, unless they represent an impairment.

## Translation of foreign currency items

In the Group's financial statements, all transactions in currencies other than the functional currency are recognised at the exchange rate prevailing on the date of the transaction. Monetary assets and liabilities in currencies other than the functional currency are subsequently adjusted at the exchange rate prevailing at year end. Any translation differences are taken to the income statement.

Non-monetary assets and liabilities in foreign currency stated at historical cost are converted at the exchange rate prevailing when the transaction was initially recognised. Non-monetary assets and liabilities in foreign currency stated at fair value are converted at the exchange rate prevailing when fair value was measured.

## Property, plant and equipment

Property, plant and equipment is recognised at historical cost, including costs directly attributable to preparing the asset for its intended use. In the event of legal or constructive obligations, cost also includes the present value of the estimated cost of dismantling or removing the asset. The corresponding liability is recognised in provisions for risks and charges. Borrowing costs directly attributable to the purchase, construction or production of an asset that qualify for capitalisation pursuant to IAS 23 are capitalised as part of the cost of the asset. Costs incurred after purchase are recognised as an increase in the carrying amount of the asset to which they relate if it is probable that the future benefits of that cost will flow to the Group, and if the cost can be reliably measured. All other costs are expensed as incurred.

Each element of an item of property, plant and equipment of material value, with respect to the total value of the item to which it belongs, is recognised and depreciated separately.

Property, plant and equipment is shown net of accumulated depreciation and any impairment losses. Depreciation is calculated on a straight-line basis over the estimated useful economic life of the asset, which is reviewed annually, with revisions applied on a prospective basis. Depreciation of an asset begins when the asset becomes available for use.

Liabilities associated with items of property, plant and equipment are taken to a specific provision as a contra account of the related asset. The amount is taken to the income statement through depreciation of the asset.

Property, plant and equipment is derecognised either at the time of disposal or when no future economic benefit is expected from their use or disposal. Any profit or loss, recognised in the income statement, is determined as the difference between the net proceeds deriving from disposal and the net carrying amount of the assets eliminated.

The main rates of depreciation, calculated on the basis of the useful lives of the relevant assets, are as follows:

### RATES OF DEPRECIATION

Buildings – Civil and industrial buildings	2.50%
Plant and equipment – Transmission lines	2.22%
<b>Plant and equipment – Transformer substations:</b>	
- Electrical machinery	2.38%
- Electrical devices and equipment	3.13%
- Automation and control systems	6.70%
<b>Plant and equipment - Central systems for remote management and control:</b>	
- Devices, electrical equipment and ancillary plant	5.00%
- Computers	10.00%

Land, regardless of whether it is free of constructions or related to civil and industrial buildings, is not depreciated, since it has an indefinite useful life.

This item also includes right-of-use assets arising from lease arrangements relating to the use of property, plant and equipment, as recognised under IFRS 16. A lease arrangement is, or contains, a lease if the contract conveys the right to control the use of an identified asset for a period of time in exchange for consideration. Applying this standard, the lessee recognises: (i) a right-of-use asset in its statement of financial position and a liability representing its obligation to make the payments provided for under the arrangement, for all leases with terms in excess of twelve months where the asset cannot be considered of low value (the Group has elected to apply the practical expedient provided for in the standard, recognising payments relating to arrangements that do not fall within the scope of this type of lease in the income statement); (ii) depreciation of the recognised assets and interest expense on the lease liability separately in the income statement.

In determining the lease term, the Group considers the non-cancellable period of the lease and the additional periods resulting from any options to extend the lease, or from the decision not to exercise the option to terminate the lease early (where there is reasonable certainty that such options will be exercised).

The lease liability is initially recognised at the present value of the remaining lease payments at the commencement date: (i) fixed payments; (ii) variable lease payments that depend on an index or a rate; (iii) amounts expected to be payable by the lessee under residual value guarantees; (iv) the exercise price of a purchase option if the lessee is reasonably certain to exercise that option; and finally (v) payments of penalties for terminating the lease, if the lease term reflects the lessee exercising an option to terminate the lease. The present value of the payments is determined using a discount rate equal to the Group's incremental borrowing rate, bearing in mind the frequency and duration of the payments provided for in the lease contract.

Following initial recognition, the lease liability is accounted for at amortised cost and remeasured, with a matching change in the value of the related right-of-use asset, when there is a change in future lease payments as a result of: (i) a renegotiation of the contract; (ii) changes in the index or rate; or (iii) changes in the assessment of whether or not the options contained in the contract will be exercised (e.g., the purchase of the leased asset, extension or termination of the lease). The right-of-use asset is initially recognised at cost, measured as the sum of the following components: (i) the amount of the initial measurement of the lease liability; (ii) any initial direct costs incurred by the lessee; (iii) any lease payments made at or before the commencement date, less any lease incentives received; and (iv) an estimate of costs to be incurred by the lessee in dismantling and removing the underlying asset, restoring the site on which it is located (or restoring the underlying asset to the condition required by the terms and conditions of the lease). Following initial recognition, the right-of-use asset is adjusted to take into account (i) any accumulated depreciation, (ii) any accumulated impairment losses, and (iii) the effects of any remeasurement of the lease liability.

## Intangible assets

Intangible assets, which all have finite useful lives, are recognised at cost and shown net of accumulated amortisation and any impairment losses. Amortisation begins when the asset becomes available for use and is calculated on a straight-line basis over the estimated useful life of the related asset, which is reviewed annually. Any revisions to estimated figures are applied on a prospective basis.

Intangible assets essentially consist of the concession to exclusively provide electricity transmission and dispatching services, granted to the Parent Company Terna S.p.A. on 1 November 2005, with the acquisition of the TSO business unit. As established in the Decree issued by the Ministry of Productive Activities on 20 April 2005, this concession has a 25-year term, renewable for another 25 years, from the date of effective transfer of the activities, functions, assets and legal arrangements of the concession from GSE (formerly GRTN) to Terna S.p.A.. This intangible asset was initially recognised at cost, which reflected fair value.

Other intangible assets essentially refer to software developments and upgrades, which have a useful life of three years. Development costs are capitalised by the Terna Group only if they can be reliably estimated and there is the technical possibility and intention to complete the intangible asset so that it will be available for use, and the asset can be used and it is possible to demonstrate that it will generate probable future economic benefits.

Financial expenses directly attributable to the acquisition, construction or production of a non-current asset which justifies capitalisation pursuant to IAS 23 are capitalised to the asset as part of its cost.

All other development costs and research expenses are recognised in the income statement when incurred. These intangible assets are amortised over their estimated residual useful life, which is normally three years, given their rapid obsolescence.



## Infrastructure rights

Infrastructure includes the property, plant and equipment and intangible assets employed in dispatching activities in Italy and in the operations in Peru. These activities are carried out under concession arrangements, which fall within the scope of application of IFRIC 12, since the services provided are regulated and control exists over the residual interest. More specifically, infrastructure rights have been recognised as an intangible asset, as valued on the basis of the Intangible Asset model, given the return generated by dispatching activities thanks to the charges paid by users. These assets have a useful life of three years.

The revenue and costs relating to investment activities are recognised with reference to the contracts concerned on a stage-of-completion basis; revenue recognised during the construction phase is limited to the amount of the internal and external construction costs incurred, considering that the fair value of the construction services is equivalent to the construction cost paid to third-party contractors plus the internal cost of the technical personnel employed on such construction activities. The assets continue to be amortised and depreciated in accordance with the initial schedule.

By contrast, dispatching revenue continues to be recognised in accordance with IFRS 15 and financial expenses continue to be capitalised pursuant to IAS 23.

IFRIC 12, instead, is not applicable to the part of the Parent Company's concession arrangement relating to transmission activities, since neither the concession nor the related legislation envisages that ownership of the NTG is to be restored to the public grantor, even for a consideration.

## Goodwill

Goodwill, deriving from the acquisition of subsidiaries, is allocated to each of the cash generating units (CGU) identified, coinciding with Group companies that own electricity transmission grids and with the Tamini Group, relating to the production and commercialisation of transformers. Goodwill is not amortised after initial recognition but is adjusted to reflect impairment losses, measured as described above. Following the acquisition of investments in associates and joint ventures, goodwill is included in the carrying amount of the companies. Where negative goodwill arises, it is recognised in the income statement at the time of acquisition.

## Inventories

Inventories are recognised and measured at the lower of purchase cost and net estimated realisable value. Cost is calculated as the weighted average, including accrued ancillary expenses. Net estimated realisable value means the estimated sale price under normal conditions net of completion costs and the estimated costs to sell.

## Financial instruments

### Financial assets

The new standard, IFRS 9 – Financial Instruments, effective from 1 January 2018, is divided into the following phases: classification and measurement, derecognition, impairment and hedge accounting.

In order to classify and measure financial instruments, the Group recognises financial assets at fair value inclusive of transaction costs.

Financial assets represented by debt instruments, and falling within the scope of application of the standard, may be measured at amortised cost, at fair value through other comprehensive income or at fair value through profit or loss, depending on the business model adopted to manage the financial assets and the characteristics of the contractual cash flows.

In accordance with the provisions of IFRS 9, the Group correctly classifies these assets based on the results of so-called SSP (‘solely payments of principal and interest’) tests. Under this test, assets may be recognised at amortised cost or fair value through other comprehensive income if they generate cash flows that are solely payments of principal and interest on the principal amount outstanding. This measurement is applied at the level of each individual instrument.

Specifically, the Group measures financial assets:

- at amortised cost, if the financial asset is held with the aim of collecting the contractual cash flows that meet the SPPI test, as the cash flows represent solely payments of principal and interest;
- at fair value through other comprehensive income (“FVOCI”), if the financial asset is held within a business model whose objective is achieved by collecting the contractual cash flows and by selling the financial asset, and the contractual terms of the financial asset give rise on specified dates to cash flows that are solely payments of principal and interest on the principal amount outstanding. Changes in fair value after initial recognition are recognised in other comprehensive income and recycled through profit or loss on derecognition. The government securities held by the Parent Company are included in this category;
- at fair value through profit or loss (“FVTPL”), if the asset is not held in one of the above business models. This category primarily includes derivative financial instruments held for trading and debt instruments with contractual cash flows that are not solely payments of capital and interest.

### Infrastructure rights

These include the property, plant and equipment and intangible assets employed in Brazil under concession arrangements falling within the scope of application of IFRIC 12, since the services provided are regulated and control exists over the residual interest. More specifically, infrastructure rights have been recognised in financial assets, as valued on the basis of the Financial Asset model, given the return generated by the activities. This derives from an unconditional contractual right to receive cash or another financial asset from, or at the direction of, the grantor and the fact that the grantor cannot avoid payment.

The revenue and costs relating to investment are recognised with reference to the contracts concerned on a stage-of-completion basis; revenue recognised during the construction phase includes a profit margin on the work performed.

### Trade receivables

Trade receivables are initially recognised at fair value and subsequently measured at amortised cost, using the effective interest method. Receivables with due dates that reflect normal commercial terms are not discounted.

In accordance with the provisions of IFRS 9, the Group’s trade receivables fall within the hold to collect business model, as these assets are held with the objective of collecting the cash flows primarily by collecting the contractual cash flows, the receivables primarily fall due within 12 months and do not include a significant financial component, and the Group does not intend to sell such receivables.

Trade receivables are recognised net of any losses recognised in a specific allowance for doubtful accounts (identified on the basis described in the paragraph, “Allowance for doubtful accounts”). IFRS 9 has introduced application of a model based on expected credit losses. This requires the Group to assess expected credit losses, and the related changes, at each reporting date. Specifically, the Group has applied the simplified approach permitted by IFRS 9 to trade receivables, finance lease receivables and assets deriving from contracts with customers, in order to measure the allowance for doubtful accounts based on expected losses over the life of the receivable. The Group has thus determined the amount of expected credit losses using a provisioning matrix, based on information regarding historical credit losses for similar past due exposures, adjusted to take into account current conditions and forward-looking elements.

### Cash and cash equivalents

Cash and cash equivalents are recognised at nominal value and include amounts that are available on demand or can be readily converted into a known amount of cash and are subject to an insignificant risk of changes in value.

## Trade payables

Trade payables are initially recognised at fair value and subsequently stated at amortised cost. If their due dates reflect normal commercial terms, they are not discounted.

## Financial liabilities

Financial liabilities are recognised at the settlement date and measured at fair value, net of directly related transaction costs. Subsequently, financial liabilities are measured at amortised cost, using the original effective interest method. If the liabilities are covered by fair value hedges, they are adjusted to reflect changes in fair value with respect to the hedged risk. Subsequent measurement of financial liabilities depends on their classification as financial liabilities at amortised cost or at fair value through profit or loss.

## Derivative financial instruments

Derivatives are recognised at fair value at the trade date.

The qualifying criteria applied in classifying derivatives as eligible for hedge accounting are as follows:

- the hedging relationship consists only of eligible hedging instruments and eligible hedged items;
- at the inception of the hedging relationship there is formal designation and documentation of the hedging relationship and the entity's risk management objective and strategy for undertaking the hedge. That documentation shall include identification of the hedging instrument, the hedged item, the nature of the risk being hedged and how the entity will assess whether the hedging relationship meets the hedge effectiveness requirements (including its analysis of the sources of hedge ineffectiveness and how it determines the hedge ratio);
- the hedge ratio of the hedging relationship is the same as that resulting from the quantity of the hedged item that the entity actually hedges and the quantity of the hedging instrument that the entity actually uses to hedge that quantity of hedged item.

The Group discontinues hedge accounting prospectively only when the hedging relationship (or a part of a hedging relationship) ceases to meet the qualifying criteria. This includes instances when the hedging instrument expires or is sold, terminated or exercised. For this purpose, the replacement or rollover of a hedging instrument into another hedging instrument is not an expiration or termination if such a replacement or rollover is part of, and consistent with, the entity's documented risk management objective.

For hedge accounting purposes, there are three types of hedge:

- fair value hedges when the hedge regards the exposure to changes in the fair value of the recognised asset or liability or there is an unrecognised firm commitment;
- cash flow hedges when the hedge regards the exposure to variability in cash flows that is attributable to a particular risk associated with all of the recognised asset or liability or a highly probable forecast transaction or the exchange rate risk on an unrecognised firm commitment;
- the hedge of a net investment in a foreign operation.

When derivatives cover the risk of changes in the cash flows of the hedged instruments (cash flow hedges), the portion of changes in the fair value qualifying as effective is initially recognised in "Other comprehensive income" (accumulated in equity) and subsequently in profit or loss, as the cash flows from the hedged item affects profit or loss. The portion of the fair value of the hedging instrument that does not qualify as effective is recognised in profit or loss.

When hedging derivatives cover the risk of changes in the fair value of hedged instruments (fair value hedges), they are recognised at fair value in profit or loss. Accordingly, the hedged items are adjusted to reflect changes in the fair value associated with the hedged risk.

Changes in the fair value of derivatives that do not meet hedge accounting requirements in accordance with the IFRS are recognised in profit or loss.

Fair value is measured on the basis of official quotations for instruments traded in regulated markets. The fair value of instruments not traded in regulated markets is measured by discounting projected cash flows along a yield curve prevailing in the market at the reporting date, and by translating amounts in currencies other than the euro at closing exchange rates. Financial and non-financial contracts (which are not already measured at fair value) are also analysed to identify any embedded derivatives, which must be separated and measured at fair value. The aforesaid analyses are carried out both at the moment in which the contract is entered into, and when a renegotiation of the same takes place which involves a significant change in the related original cash flows.

## Hybrid bonds

Issues of non-convertible, perpetual hybrid bonds are classified as equity instruments. These are in fact instruments that allow Terna to defer coupon payments over time and whose early redemption is permitted on the occurrence of certain events or at the reset date. These instruments cannot be converted into shares and, in the event of the Company's liquidation, winding up or insolvency, interest payments are subordinated to all the issuer's other payment obligations. The proceeds received from the sale of the instruments and subsequent returns of capital are accounted for as an increase or a reduction in equity, respectively, in compliance with the requirements applicable to equity instruments in IAS 32. Interest expense, at the time the payment obligation arises, is recognised as a reduction in equity.

## Non-current assets held for sale

Non-current assets and current and non-current assets included in disposal groups are classified as held for sale if their carrying amount is to be recovered primarily through sale rather than through continued use. This classification only applies if the non-current assets (or disposal groups) are available for immediate sale in their present condition and the sale is highly probable. An entity that is committed to a sale plan involving loss of control of a subsidiary must classify all the assets and liabilities of that subsidiary as held for sale, regardless of whether the entity will retain a non-controlling interest in its former subsidiary after the sale. The assessment of whether or not the conditions have been met for classification of an asset as held for sale requires management to make a subjective judgement, using reasonable and realistic assumptions based on the available information.

Non-current assets held for sale, current and non-current assets included in disposal groups and the directly attributable liabilities are recognised in the statement of financial position separately from the entity's other assets and liabilities. Before their classification as held for sale, the assets and liabilities included in a disposal group are measured in accordance with the applicable accounting standards. Subsequently, the non-current assets held for sale are no longer subject to depreciation or amortisation and are measured at the lower of carrying amount and fair value less costs to sell.

If the carrying amount of the non-current assets is lower than fair value less costs to sell, the entity must recognise an impairment loss. The entity must recognise a gain for any subsequent increase in fair value less costs to sell of the assets, but not in excess of the cumulative impairment loss previously recognised, including those recognized prior to the assets' classification as held for sale.

Non-current assets and disposal groups classified as held for sale constitute a discontinued operation if they: i) represent a major line of business or geographical area of operations; ii) are part of a single coordinated plan to dispose of a separate major line of business or geographical area of operations; or iii) relate to a subsidiary acquired exclusively with a view to resale.

Profits and losses from discontinued operations, and any gains or losses realised following the sale, are shown in a separate line item in the income statement, net of any tax, with amounts for comparative periods also shown.

When events no longer permit the entity to classify the non-current assets or disposal groups as held for sale, the assets or disposal groups must be reclassified to the respective items in the statement of financial position and recognised at the lower of: (i) their carrying amount at the date of classification as held for sale; and (ii) the recoverable amount at the date of reclassification.

On 29 April 2022, Terna S.p.A., Terna Plus S.r.l. and Terna Chile S.p.A. signed an agreement with CDPQ, a global investment group, for the sale of all the Group's power line assets, approximately 1,200 km, in Brazil, Peru and Uruguay.

The value of the assets being sold (the equity value) is more than €265 million. Transaction closing, due to take place in phases, took place for the most part in the second half of the year. On 7 November 2022, the first transaction closing for the Brazilian companies, “SPE Santa Maria Transmissora de Energia S.A.”, “SPE Santa Lucia Transmissora de Energia S.A.” and “SPE Transmissora de Energia Linha Verde II S.A.”, owners of three power lines in Brazil, totalling 670 km, was completed. The value of the assets being sold (the equity value) is more than €145 million. On 22 December 2022, the transaction closing for Difebal S.A., the owner of a power line in Uruguay, totalling 214 km, was completed. The value of the assets being sold (the equity value) is more than €27 million. Both transaction closings are in line with the agreement.

Following the above transaction, in accordance with IFRS 5 - Non-current Assets Held for Sale and Discontinued Operations, the consolidated assets and liabilities of the companies for which the sale process has yet to complete at 31 December 2022 are included in “Assets held for sale” and in “Liabilities related to assets held for sale”. In the consolidated income statement, the consolidated profit/(loss) of the companies included in the transaction has been reclassified as “Net profit/(loss) for the year from assets held for sale”.

## Employee benefits

The liability associated with employee benefits payable on or after termination of employment relate to defined benefit plans (deferred compensation benefits, additional months’ pay, payment in lieu of notice, energy discounts, ASEM health cover and other benefits) or other long-term employee benefits (loyalty bonuses) and is recognised net of any plan assets. The liability is measured separately for each plan on the basis of actuarial calculations that estimate the amount of vested future benefits that employees have accrued at the reporting date. The liability is recognised on an accruals basis over the vesting period and is measured by independent actuaries.

## Share-based payments

Given that they are substantially a form of remuneration, personnel expenses include the cost of share-based incentive plans. The cost of the incentive is measured on the basis of the fair value of the equity instruments granted and the expected number of shares to be effectively awarded. The accrued amount for the period is determined on a straight-line basis over the vesting period, being the period between the grant date and the date of the award. The fair value of the shares underlying the incentive plan is measured at the grant date, based on the expected satisfaction of the performance conditions associated with market conditions and is not subject to adjustment in future periods. When receipt of the benefit is linked to non-market conditions, the estimate relating to these conditions is reflected and the accrual’s number of shares expected to be awarded is adjusted over the vesting period. If, at the end of the vesting period, the plan does not result in the award of any shares to beneficiaries due to the failure to satisfy the performance conditions, the portion of the cost linked to market conditions is not reversed through the income statement.

## Provisions for risks and charges

Provisions set aside for risks and charges are recognised when, at the reporting date, the Group has a legal or constructive obligation as the result of a past event and it is probable that an outflow of resources will be required to settle the obligation and a reliable estimate can be made of the amount of the disbursement. Where the effect is material, provisions are made by discounting estimated future cash flows using a discount rate that reflects current market rates and the specific risk applicable to the obligation, if any. Where discounting is used, the increase in the provisions due to the passage of time is recognised in the income statement as a financial expense. If it relates to property, plant and equipment (plant disposal and site restoration, for example), the provision is recognised as a contra entry to the asset to which it relates. The expense is recognised in the income statement through depreciation of the item of property, plant and equipment to which it relates.

Changes in the estimates are recognised in the income statement for the year in which the change occurs, except for the expected costs of dismantling, removal and restoration resulting from changes in the timing and use of the economic resources necessary to extinguish the obligation, or are attributable to a material change in the discount rate. These costs are recognised as an increase or reduction in the related assets and recognised in the income statement through depreciation.

## Government grants

Government grants are recognised when there is a reasonable certainty that they will be received and that the Group will comply with all the conditions required for disbursement. Grants received in relation to specific assets whose value is recognised under non-current assets are recognised, in the case of plant already in operation at 31 December 2002, among other liabilities and taken to the income statement over the depreciation period for the assets in question. As of the 2003 financial year, grants related to new plant entering service are recognised as a direct reduction in the non-current asset concerned.

Grants related to income are recognised in the income statement when the conditions for recognition are met.

## Revenue

The Group's revenue can be categorised as follows:

- **Revenue from sales and services**, including revenue from contracts with customers and therefore falling within the scope of IFRS 15.

In accordance with the provisions of IFRS 15, revenue from contracts with customers is recognised when the performance obligations identified in the contract are satisfied and control over the goods or services is transferred to the customer for an amount that reflects the consideration that the Group expects to receive in exchange for the goods or services.

The standard envisages two methods for identifying the correct time at which to recognise the revenue attributable to each performance obligation: at contract inception, the Group determines if the goods or services covered by the performance obligation will be transferred to the customer over a period of time or at a point in time:

- Revenue from the sale of goods is recognised when control of the goods is transferred to the customer (at a point in time). The Group determines if there are other promises in the contract representing a performance obligation to which a part of the transaction consideration must be allocated. In determining the sale price, the Group takes into account the effects of a variable consideration, significant financial components, non-monetary components and amounts to be paid to the customer (if present);
- Revenue from services is recognised with reference to the stage of completion of the activity, in accordance with the provisions of IFRS 15 (over a period of time).

Revenue from sales and services also includes output-based incentives, as defined by ARERA, for both transmission and dispatching activities. The incentive mechanisms fall within the scope of application of IFRS 15. If the counterparties through which Terna collects an incentive are not active in the market in the year in which achievement of the targets underlying the incentive scheme is confirmed, IFRS 15 is applied in accordance with the analogy-based approach provided for in IAS 8, as confirmed with reference to the Conceptual Framework for Financial Reporting.

If the mechanism includes a significant financial component, the amounts recognised in the financial statements are discounted to present value. Based on the specific nature of each mechanism, the Group assesses whether the performance obligation is satisfied over a period of time or at a point in time, also taking into account whether or not the right is subject to confirmation or verification by the regulator, ARERA.

- **Other revenue and income**, which includes revenue from lease arrangements and other residual forms of revenue, included within the scope of application of IFRS 15, deriving from sales of goods not forming part of the Group's ordinary activities.

## Costs

Costs are recognised on an accruals basis. They are recognised in the accounting period when they relate to goods and services sold or consumed in the same period or are allocated in a systematic way when it is not possible to identify a future use for them.

## Financial income and expenses

Financial expenses directly attributable to the acquisition, construction or production of an asset that qualify for capitalisation are capitalised as part of the cost of the asset. The property, plant and equipment and intangible assets involved are those that require at least one year in order to prepare them for use. The directly attributable financial expenses are expenses that would not have been incurred had the expenditure for the asset not been incurred.

Where funds are borrowed specifically, the costs eligible for capitalisation are the actual costs incurred less any income earned on the temporary investment of such borrowings. Where loans are obtained for general purposes, the eligible amount is determined by applying a capitalisation rate to the expenditure on that asset equal to the weighted average of the financial expenses applicable to the borrowings outstanding for the year, excluding any specifically borrowed funds. The amount of capitalised financial expenses during a year will in any case not exceed the amount of financial expenses incurred during that year.

Capitalisation commences as from the date all the following conditions are first met: (a) expenditure has been incurred for the asset; (b) financial expenses have been incurred; and (c) the activities involved in preparing the asset for its intended use or sale are in progress. Capitalisation ceases when the activities involved in preparing the asset for its intended use or sale are substantially complete.

The average capitalisation rate used for 2022 is approximately 1.3% (0.8% for 2021).

Financial income and expenses other than capitalised amounts are recognised on an accruals basis in respect of the interest on the net value of the related financial assets and liabilities, using the effective interest rate.

## Treasury shares

Treasury shares, including those held to service share-based incentive plans, are recognised at cost and accounted for as a reduction in equity. Any gains or losses resulting from the later sale of such shares are recognised in equity.

## Dividends

Dividends from investees are recognised when the shareholders' right to receive payment is established. Dividends and interim dividends payable to shareholders are shown as changes in equity at the date in which they are approved by the General Meeting of shareholders and the Board of Directors, respectively.

## Earnings per share

Basic earnings per share is calculated by dividing the profit or loss for the year attributable to holders of the ordinary shares by the weighted average of ordinary shares outstanding during the year, excluding treasury shares.

Diluted earnings per share is determined by dividing profit for the period by the weighted average of ordinary shares outstanding during the period, excluding treasury shares, increased by the number of shares that could potentially result from the conversion of any convertible securities.

## Income taxes

Current income taxes are recognised as “Tax liabilities”, net of advances paid, or “Tax assets” where the net balance of the items is positive. They are based on the estimated taxable income and in accordance with current legislation, taking account of applicable exemptions.

Deferred tax assets and liabilities are calculated on temporary differences between the carrying amounts of assets and liabilities recognised in the separate financial statements and the corresponding amounts recognised for tax purposes, using current tax rates or the rates expected to be in effect when the temporary differences reverse, based on rates approved at the reporting date.

Deferred tax assets are recognised when their recovery is considered probable, i.e., when future taxable income will be available against which the asset can be used. The recoverability of deferred tax assets is reviewed at the end of each year.

Deferred tax liabilities are recognised in any case if they exist. Taxes relating to items recognised directly in equity are also allocated to equity.

## New accounting standards

### International financial reporting standards effective as of 1 January 2022

A number of new amendments to standards already applied, none of which have had a significant impact, came into effect from 1 January 2022. The relevant standards are as follows:

#### *Amendment to IFRS 3, IAS 16, IAS 37 and Annual Improvements 2018-2020*

On 28 June 2021, the European Commission issued Regulation 2021/1080, endorsing the following amendments:

- **Amendments to IFRS 3 Business Combinations:** the changes aim to update the reference to the revised version of the Conceptual Framework in IFRS 3, without this resulting in modifications to the provisions of the standard;
- **Amendments to IAS 16 Property, Plant and Equipment:** the changes aim to not allow the deduction of the amount received from the sale of good produced from the cost property, plant and equipment when testing such assets. This sales revenue and the related costs must therefore be recognized in profit or loss;
- **Amendments to IAS 37 Provisions, Contingent Liabilities and Contingent Assets:** the amendment clarifies that in estimating the onerous nature of a contract an entity must take into account all the incremental costs (such as, for example, direct labour and materials), but also all the costs that the entity cannot avoid having entered into the contract (such as, for example, allocation of the depreciation charge for an item of property, plant and equipment used in fulfilling the contract);
- **Annual Improvements 2018-2020:** the changes regarded IFRS 1 First-time Adoption of International Financial Reporting Standards, IFRS 9 Financial Instruments, IAS 41 Agriculture and Illustrative Examples of IFRS 16 Leases.

The adoption of these amendments has not had an impact on the Group’s consolidated financial statements.

### International financial reporting standards, amendments and interpretations endorsed but not yet effective

At the date of approval of this document, the following standards, amendments or interpretations have yet to become effective and the Group has not opted for early adoption at 31 December 2022:

#### *IFRS 17: Insurance contracts*

On 19 November 2021, the European Commission issued Regulation 2021/2036, endorsing IFRS 17. The new accounting standard for insurance contracts was published by the IASB on 18 May 2017, to replace the interim version of IFRS 4. The standard aims to ensure that an entity provides pertinent information providing an accurate view of the rights and obligations resulting from the insurance contracts issued. The IASB has developed the standard to remove inconsistencies and weaknesses in existing accounting policies, providing a single principle-based framework that takes into account all types of insurance contracts, including any reinsurance contracts to which an insurance undertaking is



party. The new standard also introduces presentation and disclosure requirements to improve comparability between entities belonging to this sector.

The standard will come into effect from 1 January 2023 and will not have an impact on the Group's consolidated financial statements.

### *Amendments to IAS 1 and IAS 8: Disclosure of Accounting Policies - Amendments to IAS 1 and IFRS Practice Statement 2 and Definition of Accounting Estimates – Amendments to IAS 8*

On 2 March 2022, the European Commission issued Regulation 2022/357, endorsing the amendment making changes to IAS 1 Presentation of financial statements and IAS 8 Accounting standards, and changes to the treatment of accounting estimates and errors. These amendments aim to improve the disclosure of accounting policies in order to provide more useful information for investors and other primary users of financial statements and to help companies to distinguish changes in accounting estimates from changes in accounting policy.

The amendments will come into effect from 1 January 2023 and the Group will not opt for early adoption. The Group is currently assessing the potential impact of the introduction of these amendments on its consolidated financial statements.

### *Amendment to IAS 12: Deferred Tax related to Assets and Liabilities arising from a Single Transaction*

On 11 August 2022, the European Commission issued Regulation 2022/1392, endorsing the amendment that clarifies how to account for deferred tax on certain transactions that can generate assets and liabilities of equal amounts, such as leasing and decommissioning obligations.

The amendments are applicable from 1 January 2023, and the Group will not opt for early adoption. The Group is currently assessing the potential impact of the introduction of these amendments on its consolidated financial statements.

### *Amendment to IFRS 17 Insurance Contracts: Initial Application of IFRS 17 and IFRS 9 – Comparative information*

On 8 September 2022, the European Commission issued Regulation 2022/1491, endorsing the amendment that enables to overcome one-off classification differences in comparative information from the previous year when first applying IFRS 17 and IFRS 9. The amendment is, therefore, designed to prevent temporary accounting imbalances between financial assets and insurance contract liabilities and improve the usefulness of comparative information for readers of the financial statements. The standard will be effective from 1 January 2023 and will not have an impact on the Group's financial statements.

## **International financial reporting standards, amendments and interpretations awaiting endorsement**

For newly-issued amendments, standards and interpretations that have not yet been endorsed by the EU, but which address issues that affect or could affect the Terna Group, assessments are currently being conducted of the possible impact of their application on the financial statements, taking into account the date on which they will take effect. In particular:

### *Amendment to IAS 1: Presentation of Financial Statements: Classification of Liabilities as Current or Non-current and Classification of Liabilities as Current or Noncurrent - Deferral of Effective Date and Non-current Liabilities with Covenants*

On 23 January 2020, 15 July 2020 and 31 October 2022 the IASB published the amendment to IAS 1 that aims to clarify how to classify payables and other short- or long-term liabilities, including those subject to covenants. The Group is currently assessing the potential impact of the introduction of these amendments on its consolidated financial statements.

### *Amendment to IFRS 16: Lease Liability in a Sale and Leaseback*

On 22 September 2022, the IASB published the amendment to IFRS 16, aiming to clarify how to account for a sale and leaseback that involves variable payments based on the performance or use of the asset included in the transaction.

## B. Notes to the consolidated income statement

### Revenue

#### 1. Revenue from sales and services – €2,898.1 million

(€m)

	2022	2021	CHANGE
Transmission charges billed to grid users and incentives	1,968.6	2,041.0	(72.4)
Dispatching and metering charges and other energy-related revenue	115.3	113.8	1.5
Incentives for dispatching activities	334.7	-	334.7
Revenue from services performed under concession	67.4	46.9	20.5
Quality of service	23.2	11.6	11.6
Other sales and services	388.9	321.2	67.7
<b>TOTAL</b>	<b>2,898.1</b>	<b>2,534.5</b>	<b>363.6</b>

#### *Transmission charges and incentives*

The charges for use of the NTG regard the revenue attributable to the Parent (€1,823.8 million) and the subsidiaries Rete S.r.l. (€129.7 million) and Terna Crna Gora d.o.o. (€15.1 million).

The reduction in the item (down €72.4 million) primarily reflects the impact of the reduction in the WACC recognised for 2022 (Resolution 614/21) and the volume effect, partly offset by the increase in the RAB during the period and the output-based incentives related to the delivery of additional transmission capacity between market areas (€34.5 million, Resolution 567/2019) after the incentives recorded in 2021 (down €48.1 million).

#### *Dispatching and metering charges and other energy-related revenue*

This refers to the charges recognised in return for provision of the dispatching and metering service (the dispatching component amounts to €112.5 million, whilst the metering component totals €0.3 million) and other energy-related revenue of €2.5 million.

This item is broadly in line with the previous year.

#### *Incentives for dispatching activities*

The item regards output-based incentives for dispatching, totalling €334.7 million.

These incentives result from the mechanisms referred to in resolutions 597/2021 and 132/2022, designed to cut DSM costs, the shortfall in wind production and essential plants (€194.2 million, representing the accrued share of the present value of the incentive due for the period 2022-2024, amounting to €644 million gross of the effect of discounting) and Resolution 699/2018, which provided incentives for grid development projects in the three-year period from 2019 to 2021 designed to relieve congestion within market areas and grid constraints due to voltage regulation and improve conditions for essential service provision (€140.5 million, representing the present value of the amount established in Resolution 26/2023, to be collected over three years from 2023).

With regard to the mechanism introduced by Resolution 597/2021, the revenue represents the accrued portion of the estimated overall incentive for the three-year period. This also incorporates factors that could result in a reduction in the incentive in the years 2023 and 2024, due to the partial increase in DSM costs associated with an increase in the volume of market trades in the event of critical situations caused by system inadequacies, tensions on overseas markets and/or extreme weather conditions due to factors that are not neutralised by the calculation rules.

With regard to the mechanism introduced by Resolution 699/2018, the revenue represents the maximum amount of the incentive due (€150 million gross of the effect of discounting) for work carried out in the period between 2019 and 2021, to the extent it was possible to assess the related amount only in 2022 and finally approved by ARERA in Resolution 26/2023.

### *Revenue from services performed under concession*

This item includes revenue from infrastructure construction and upgrade services performed under concession, recognised in application of IFRIC 12, amounting to €67.4 million.

The increase with respect to the previous year, amounting to €20.5 million, reflects increased investment during the period in dispatching infrastructure.

### *Quality of service*

This item, amounting to €23.2 million, regards the RENS (Regulated Energy Not Supplied) incentive mechanism introduced by Resolution 653/2015/r/eel, calculated on a pro rata basis taking into account the estimated overall results expected in the 2020-2023 regulatory period.

The increase of €11.6 million in this item compared with the previous year is broadly due to the recognition of the pro-rata assessment of the estimated overall performance for the 2022-2023 regulatory period.

### *Other sales and services*

The item, "Other sales and services", amounting to €388.9 million, mainly regards revenue from Non-regulated Activities, regarding:

- the sale of transformers by the subsidiary, Tamini (€145.5 million);
- revenue contributed by Brugg Cables Group, essentially relating to contracts with third parties for the supply of cables and accessories (€129.1 million);
- Energy Solutions (€81.2 million) above all HV services, totalling €30.1 million and Smart Grids, totalling €51.1 million, including the contribution from the LT Group, which specialises in O&M services for photovoltaic plants (€30.0 million) and the energy efficiency services provided by the subsidiary, Avenia The Energy Innovator S.r.l. amounting to €1.6 million;
- Connectivity (€31.5 million) with specific regard to support and housing services for fibre networks (€27.1 million) and fibre maintenance (€3.6 million).

This item also includes revenue from connections to the NTG (€8.7 million) and relating to the private Italy-Austria Interconnector (€0.3 million), representing the accrued portion of the revenue attributable to the Group for services provided during construction.

This item is up €67.7 million compared with 2021, primarily due to the increased contribution from the subsidiaries, Tamini Group and Brugg Cables Group (up €27.9 million and €19.0 million, respectively), increased revenue from Energy Solutions (up €30.2 million, including €19.9 million due to the contribution from the LT Group acquired in October 2021) and an increase in revenue from the provision of Connectivity services (up €1.0 million) and revenue from connections to the NTG (up €3.3 million), after the reduction in revenue from the Italy-France interconnector (down €12.9 million) due to a contractual penalty payable to energy intensive users for delayed completion of work.

### *Pass-through revenue/expenses*

This item regards "pass-through" revenue and expenses (the balance of which amounts to zero) attributable solely to the Parent Company. These items result from daily purchases and sales of electricity from electricity market operators. Measurements for each point of injection and withdrawal are taken and the differences, with respect to energy market schedules are calculated. These differences, known as imbalances, are then measured using algorithms established by the regulatory framework. The net charge resulting from calculation of the imbalances and the purchases and sales, carried out by the Parent Company Terna on the DSM, is billed on a pro rata basis to each end consumer via a specific uplift payment. This item also reflects the portion of the transmission charge that the Parent Company passes on to other grid owners, not included in the scope of consolidation.

The components of these transactions are shown in greater detail below:

(€m)

	2022	2021	CHANGE
<b>Power Exchange-related revenue items</b>	<b>11,308.4</b>	<b>6,506.7</b>	<b>4,801.7</b>
- Uplift	1,394.5	2,357.8	(963.3)
- Electricity sales	1,278.2	963.7	314.5
- Imbalances	3,689.1	1,580.0	2,109.1
- Congestion revenue	710.7	316.8	393.9
- Charges for right to use transmission capacity and market coupling	1,160.0	438.6	721.4
- Interconnectors/shippers	66.3	70.6	(4.3)
- Load Profiling for public lighting	1,833.5	264.6	1,568.9
- Other Power Exchange-related pass-through revenue items	1,176.1	514.6	661.5
<b>Total over-the-counter revenue items</b>	<b>2,788.8</b>	<b>1,759.5</b>	<b>1,029.3</b>
- Capacity market	1,204.3	-	1,204.3
- Coverage of wind farm costs	40.5	36.5	4.0
- Transmission revenue passed on to other NTG owners	1.8	4.9	(3.1)
- Charge to cover cost of essential plants	703.5	727.1	(23.6)
- Charge to cover cost of energy delivery capacity	-	213.9	(213.9)
- Charge to cover cost of interruptibility service	314.3	326.6	(12.3)
- Charge to cover cost of LV capacity and protection service	425.4	366.2	59.2
- Other pass-through revenue for over-the-counter trades	99.0	84.3	14.7
<b>TOTAL PASS-THROUGH REVENUE</b>	<b>14,097.2</b>	<b>8,266.2</b>	<b>5,831.0</b>
<b>Total Power Exchange-related cost items</b>	<b>11,308.4</b>	<b>6,506.7</b>	<b>4,801.7</b>
- Electricity purchases	3,581.1	3,978.1	(397.0)
- Imbalances	3,039.6	1,192.0	1,847.6
- Congestion revenue	527.6	245.0	282.6
- Charges for right to use transmission capacity and market coupling	542.0	198.5	343.5
- Interconnectors/Shippers	874.7	200.9	673.8
- Load Profiling for public lighting	1,886.4	288.6	1,597.8
- Other Power Exchange-related pass-through cost items	857.0	403.6	453.4
<b>Total over-the-counter cost items</b>	<b>2,788.8</b>	<b>1,759.5</b>	<b>1,029.3</b>
- Capacity market	1,204.3	-	1,204.3
- Shortfall in wind production	40.5	36.5	4.0
- Transmission costs passed on to other NTG owners	1.8	4.9	(3.1)
- Fees paid for essential units	703.5	727.1	(23.6)
- Fees paid for energy delivery capacity	-	213.9	(213.9)
- Fees paid for interruptibility service	314.3	326.6	(12.3)
- Fees paid for LV capacity and protection service	425.4	366.2	59.2
- Other pass-through costs for over-the-counter trades	99.0	84.3	14.7
<b>TOTAL PASS-THROUGH COSTS</b>	<b>14,097.2</b>	<b>8,266.2</b>	<b>5,831.0</b>

In 2022, the total uplift was approximately €1,789 million (provisional data), down 24% on the previous year (€2,360 million). The reduction was due to the reduced cost of procuring services, the fall in the consideration due for Goodwill and Change of Structure Tokens<sup>1</sup>, the reduced cost of contracts providing an alternative to essential providers<sup>2</sup> and a sharp rise in congestion revenue in Italian and Overseas market areas<sup>3</sup>, only partly offset by a significant increase in the cost of virtual interconnection services<sup>4</sup>.

<sup>1</sup> Goodwill and Change of Structure Tokens are payments made to production plants who have the right to receive them when Terna requests them to fire up the plant or change their structure.

<sup>2</sup> These are the costs incurred by Terna for payments to production plants defined as essential for the electricity system, pursuant to Annex A27 of the Grid Code, and who chose the alternative regime described in art 63 of Resolution 111/06.

<sup>3</sup> Congestion revenue is generated when there are differences in the balanced prices in the energy markets in the various market areas.

<sup>4</sup> Virtual interconnection is a net cost: Terna plans, builds and operates a new cross-border interconnection infrastructure, the cost of which is partly covered by revenue from auctions in which third party finance providers take part and who will then have access to the available transport capacity.

**2. Other revenue and income – €66.4 million**

(€m)

	2022	2021	CHANGE
Penalties receivables from suppliers	14.3	0.1	14.2
Sales to third parties	12.9	13.3	(0.4)
Sundry grants	9.2	9.0	0.2
Gains on sale of infrastructure components	6.8	5.7	1.1
Private Italy-Montenegro interconnector	6.4	6.4	-
Contingent assets	4.4	20.0	(15.6)
Insurance proceeds as compensation for damages	3.2	4.1	(0.9)
Rental income	2.2	2.2	-
Revenue from IRU contracts for fibre	1.3	8.9	(7.6)
Other revenues	5.7	2.1	3.6
<b>TOTAL</b>	<b>66.4</b>	<b>71.8</b>	<b>(5.4)</b>

“Other revenue and income” includes penalties receivables from suppliers (€14.3 million) accrued during construction of the private Italy-France interconnector, in addition to other significant items relating to sales to third parties (€12.9 million), sundry grants (€9.2 million), the gain on the sale of infrastructure components (€6.8 million), revenue generated by the private Italy-Montenegro interconnector (€6.4 million), revenue from Connectivity services linked to IRU contracts for fibre (€1.3 million) and other revenues (€5.7 million).

This item, totalling €66.4 million, is down €5.4 million compared with the previous year, primarily reflecting the recognition in 2021 of the revenue resulting from the outcome of the claim for a refund of stamp duty paid on the acquisition of Rete S.r.l. (totalling €13.4 million) and reduced revenue from Connectivity services linked to IRU contracts for fibre (down €7.6 million). These reductions were partially offset by the recognition of penalties receivable from suppliers in relation to construction of the private Italy-France interconnector (up €14.0 million) and increased revenue from gains on sale of infrastructure components (up €1.7 million).

**Operating costs****3. Raw and consumable materials used – €247.8 million**

This item includes the value of the various materials and equipment used in the ordinary operation and maintenance of the plant belonging to the Group and third parties, and the materials consumed in the performance of contract work by the Tamini Group, in the production of cables and accessories by the Brugg group.

The increase of €41.4 million compared with the previous year primarily reflects the cost of materials incurred by Brugg Cables Group and Tamini Group (up €20.6 million and €18.1 million, respectively) and the contribution from the LT Group (up €7.5 million, acquired in October 2021). This item also reflects reduced costs (down €3.1 million) linked to construction and development of the infrastructure operated under concession, accounted for in application of IFRIC 12.

**4. Services – €276.9 million**

(€m)

	2022	2021	CHANGE
Maintenance and sundry services	123.7	103.4	20.3
Tender costs for plant	68.5	46.7	21.8
IT services	38.5	28.4	10.1
Lease expense	19.4	15.4	4.0
Insurance	16.8	15.4	1.4
Remote transmission and telecommunications	10.0	9.0	1.0
<b>TOTAL</b>	<b>276.9</b>	<b>218.3</b>	<b>58.6</b>

This item, totalling €276.9 million, is up €58.6 million compared with 2021 (€218.3 million). This primarily reflects increased costs linked to the construction and development of infrastructure under concession, recognised in application of IFRIC 12 (up €23.2 million, in particular reflecting cost increases of €12.8 million for tenders for plant, IT services, up €8.6 million, and maintenance, up €2.3 million) and increased activity and new initiatives carried out by the Group, above all the LT Group (up €14.8 million). Fees payable to members of the Board of Statutory Auditors amount to €0.5 million whilst those payable to members of the Supervisory Board set up in compliance with Legislative Decree 231/2001 amount to €0.6 million.

## 5. Personnel expenses – €348.1 million

(€m)

	2022	2021	CHANGE
Salaries, wages and other short-term benefits	427.7	375.5	52.2
Directors' remuneration	2.3	1.8	0.5
Termination benefits (TFR), energy discounts and other employee benefits	21.6	20.6	1.0
Early retirement benefits	12.6	3.2	9.4
<b>Gross personnel expenses</b>	<b>464.2</b>	<b>401.1</b>	<b>63.1</b>
Capitalised personnel expenses	(116.1)	(105.8)	(10.3)
<b>TOTAL</b>	<b>348.1</b>	<b>295.3</b>	<b>52.8</b>

Personnel expenses, amounting to €348.1 million in 2022, are up €52.8 million compared with the previous year (€295.3 million). This is due to an increase in the average workforce and in net provisions for early retirement incentives, partly offset by the higher amount of capitalised expenses. The following table shows the Group's workforce by category at the end of the year and the average for the year.

(unit)

	AVERAGE WORKFORCE			WORKFORCE AT	
	2022	2021	DELTA	31 DECEMBER 2022	31 DECEMBER 2021
Senior managers	98	90	8	94	92
Middle managers	819	730	89	841	765
Office staff	2,941	2,693	248	3,090	2,815
Blue-collar workers	1,476	1,431	45	1,472	1,464
<b>TOTAL</b>	<b>5,334</b>	<b>4,944</b>	<b>390</b>	<b>5,497</b>	<b>5,136</b>

The net increase in the average workforce compared with 2021 is 390. This is essentially linked to the requirements relating to delivery of the investment programme provided for in the 2021-2025 Industrial Plan.

At 31 December 2022, the Terna Group's workforce breaks down as follows:

	TERNA S.P.A.	TERNA RETE ITALIA S.P.A.	TERNA ENERGY SOLUTIONS S.R.L.	TERNA PLUS S.R.L.	AVVENIA THE ENERGY INNOVATOR S.R.L.
No.	1,067	3,369	72	16	17

TAMINI GROUP	LT GROUP	BRUGG CABLES GROUP	TERNA CRNA GORA D.O.O.	SPE TRANSMISSORA DE ENERGIA LINHA VERDE I S.A.	TERNA PERU S.A.C.
349	123	455	11	14	4

**6. Amortisation, depreciation and impairment losses – €725.7 million**

(€m)

	2022	2021	CHANGE
Amortisation of intangible assets	93.2	66.8	26.4
- of which on infrastructure	26.7	18.2	8.5
Depreciation of property, plant and equipment	624.2	589.2	35.0
Impairment losses on property, plant and equipment	7.0	0.3	6.7
Impairment losses on current assets	-	0.8	(0.8)
Impairment losses on trade receivables	1.3	(2.7)	4.0
<b>TOTAL</b>	<b>725.7</b>	<b>654.4</b>	<b>71.3</b>

Amortisation, depreciation and impairment losses, amounting to €725.7 million (including €9.7 million recognised in application of IFRS 16), are up €71.3 million compared with 2021. This primarily reflects the entry into service of infrastructure and the higher value of impairment losses on assets recognized during the year (up €6.7 million).

**7. Other operating costs - €32.5 million**

(€m)

	2022	2021	CHANGE
Indirect taxes and local taxes and levies	11.8	7.1	4.7
Quality of service costs	1.9	5.9	(4.0)
of which mitigation and sharing mechanisms	1.6	4.9	(3.3)
of which the Fund for Exceptional Events	0.1	0.8	(0.7)
of which compensation mechanisms for HV users	0.2	0.2	-
Fees paid to regulators and membership dues	9.3	7.3	2.0
Adjustment of provisions for litigation and disputes	(3.2)	(1.3)	(1.9)
Net contingent liabilities	1.0	0.9	0.1
Losses on sales/disposals of plant and net contingent liabilities	1.3	0.8	0.5
Other	10.4	10.8	(0.4)
<b>TOTAL</b>	<b>32.5</b>	<b>31.5</b>	<b>1.0</b>

The Group's other operating costs, amounting to €32.5 million, are primarily attributable to the Parent Company (€19.8 million), the subsidiary, Terna Rete Italia S.p.A. (€3.7 million) and the Tamini Group (€2.4 million). They include indirect taxes, local taxes and levies (€11.8 million), membership dues and fees paid to trade bodies and associations relating to the Group's activities (€9.3 million), quality of service costs (€1.9 million) and other costs (€10.4 million) including provisions for risks and charges connected with the activities of the subsidiary, Tamini (€2.1 million, primarily in the form of provisions for product warranties) and other operating costs linked to the Brugg Group, relating to the cost of scrapping waste materials, donations and other expenses.

The increase of €1.0 million in the item, primarily reflects the increase in indirect taxes, local taxes and levies (up €4.7 million), an increase in the fees paid to regulators and membership dues (up €2.0 million), partly offset by a decrease in quality of service costs (down €4.0 million), primarily linked to the repayment made to Terna to cover the amount in excess of the threshold paid in 2021 to distribution companies for mitigation services (down €2.7 million, pursuant to Resolution 623/2022) and a reduction in faults and non-postponable unavailability and the adjustment of provisions for litigation and disputes (down €1.9 million).

**8. Financial income/(expenses) – (€99.1) million**

(€m)

	2022	2021	CHANGE
<b>FINANCIAL EXPENSES</b>			
Interest expense on medium/long-term borrowings and related hedges	(137.3)	(102.9)	(34.4)
Discounting of receivables, termination benefits (TFR), operating leases and other liabilities	(3.7)	(2.9)	(0.8)
Capitalised financial expenses	24.8	10.8	14.0
Other financial expenses	(5.6)	(0.8)	(4.8)
<b>Total expenses</b>	<b>(121.8)</b>	<b>(95.8)</b>	<b>(26.0)</b>
<b>FINANCIAL INCOME</b>			
Interest income and other financial income	14.6	11.6	3.0
Adjustment of borrowings and related hedges	5.4	1.2	4.2
Positive translation differences	2.7	3.8	(1.1)
<b>Total income</b>	<b>22.7</b>	<b>16.6</b>	<b>6.1</b>
<b>TOTAL</b>	<b>(99.1)</b>	<b>(79.2)</b>	<b>(19.9)</b>

Net financial expenses of €99.1 million are essentially attributable to the Parent Company (€99.2 million) and reflect €121.8 million in financial expenses and €22.7 million in financial income. The increase in net financial expenses compared with 2021, amounting to €19.9 million, primarily reflects the following:

- an increase of €35.8 million in financial expenses on medium/long-term debt due to rising inflation and the greater amount of debt;
- an increase of €14.0 million in capitalised financial expenses due to increased capital expenditure during the year.

**9. Share of profit/(loss) of investees accounted for using the equity method – (€1.0) million**

This item, amounting to €1.0 million, reflects a reduction of €1.3 million euro compared with the previous year (€0.3 million), broadly due to the negative impact of the adjustment of the Group's share of equity in the subsidiary, CESI (down €2.7 million), partially offset by the adjustment to the value of the investment in CGES (up €1.5 million).

**10. Income tax expense – €355.4 million**

Income tax expense for the year totals €355.4 million, an increase of €37.5 million on the previous year, essentially due to the increase in pre-tax profit and the higher amount of tax-exempt income recognised in the previous year. The tax rate of 28.8%, compares with the rate of 28.3% for 2021.

(€m)

	2022	2021	CHANGE
<b>Income tax for the year</b>			
Current tax expense:			
- IRES (corporate income tax)	327.7	296.2	31.5
- IRAP (regional tax on productive activities)	71.3	63.4	7.9
<b>Total current expense</b>	<b>399.0</b>	<b>359.6</b>	<b>39.4</b>
New temporary differences:			
- deferred tax assets	(56.4)	(14.7)	(41.7)
Reversal of temporary differences:			
- deferred tax assets	15.5	13.9	1.6
- deferred tax liabilities	(1.1)	(34.3)	33.2
<b>Total deferred tax (income)/expense</b>	<b>(42.3)</b>	<b>(35.1)</b>	<b>(7.2)</b>
Adjustments to taxes for previous years and other one-off changes	(1.3)	(6.6)	5.3
<b>TOTAL</b>	<b>355.4</b>	<b>317.9</b>	<b>37.5</b>

Current income tax expense of €399.0 million, is up €39.4 million, compared with the previous year, essentially due to the increase in pre-tax profit and the higher amount of tax-exempt income recognised in the previous year, as described above.



Net deferred tax expense of €42.3 million is up €7.2 million compared with the figure for the previous year (down €35.1 million). This reflects the impact of taxation on depreciation and amortisation, movements in provisions for risks and charges and for employee benefits recognized by the Group during the year.

Adjustments to taxes for previous years, amounting to expense of €1.3 million, primarily regard subsidiaries and include contingent assets resulting from recognition of the effective amount payable when filing annual tax returns. This item is €5.3 million lower than the figure for the previous year, primarily due to Brugg Cables Group.

For a clearer presentation of the differences between the theoretical and effective tax rates, the table below reconciles the profit before taxes with taxable income.

	(€m)	
	2022	2021
Profit before tax	1,233.4	1,121.5
<b>THEORETICAL IRES TAX CHARGE (24%)</b>	<b>296.0</b>	<b>269.2</b>
IRAP	71.3	63.4
Permanent differences	(10.6)	(8.1)
<b>TAX (after adjustment for previous years and one-off changes)</b>	<b>356.7</b>	<b>324.5</b>
<b>TAX RATE</b>	<b>28.9%</b>	<b>28.9%</b>
Adjustments to taxes for previous years and other one-off changes	(1.3)	(6.6)
<b>INCOME TAX EXPENSE FOR THE YEAR</b>	<b>355.4</b>	<b>317.9</b>
<b>EFFECTIVE TAX RATE</b>	<b>28.8%</b>	<b>28.3%</b>

#### 11. Profit/(Loss) for the year from discontinued operations and assets held for sale – (€20.3) million

This item reflects the net result from the assets included in the agreement signed by the Terna Group and CDPQ, a global investment group, on 29 April 2022 for the sale of all the Group's power line assets in Brazil, Peru and Uruguay.

The first transaction closing for the sale of the Brazilian companies, SPE Transmissora de Energia Linha Verde II S.A., SPE Santa Lucia Transmissora de Energia S.A. and SPE Santa Maria Transmissora de Energia S.A., was completed on 7 November 2022. The transaction closing for the sale of Difebal S.A., which operates a power line in Uruguay, was completed on 22 December 2022. The sale of the other assets in Brazil and Peru is due to take place in phases, following fulfilment of the conditions provided for in the agreement.

The revenue and cost items resulting in the net result for the year from assets held for sale, amounting to a loss of €20.3 million, are shown below:

	(€m)		
	2022	2021	CHANGE
Total revenue	49.3	43.2	6.1
Total operating costs	45.3	18.8	26.5
<b>OPERATING COSTS</b>	<b>4.0</b>	<b>24.4</b>	<b>(20.4)</b>
Financial income/(expenses), net	(9.7)	(16.3)	6.6
Impairment loss recognised on remeasurement of the fair value less costs to sell	(20.0)	(17.1)	(2.9)
<b>PROFIT/(LOSS) BEFORE TAX</b>	<b>(25.7)</b>	<b>(9.0)</b>	<b>(16.7)</b>
Income tax expense for the year	5.9	3.8	2.1
<b>Profit/(Loss) for the year attributable to owners of the Parent</b>	<b>(31.6)</b>	<b>(12.8)</b>	<b>(18.8)</b>
Net gains on disposals	23.0	-	23.0
Reserve for translation differences	(11.7)	-	(11.7)
<b>Profit/(Loss) for the year from discontinued operations and assets held for sale</b>	<b>(20.3)</b>	<b>(12.8)</b>	<b>(7.5)</b>

## Revenue

This item broadly consists of revenue from construction and development of infrastructure operated under concession, above all the discontinued operations and assets held for sale located in Brazil and Peru.

## Operating costs

Operating costs essentially regard the costs incurred for the construction work being carried out in Brazil, in addition to operating costs incurred in South America.

## Net gains on disposals

The item includes the gains on the planned sale of the net assets at fair value of the companies, SPE Santa Maria Transmissora de Energia S.A. (€3.2 million), SPE Santa Lucia Transmissora de Energia S.A. (€10.5 million), SPE Transmissora de Energia Linha Verde II S.A. (€14.5 million) and Difebal S.A (down €5.2 million) after costs to sell.

## Reserve for translation differences

The items includes the differences deriving from the translation of financial statements denominated in foreign currency and is reclassified to profit or loss following the deconsolidation of companies from which it originates (down €11.7 million).

The loss from assets held for sale, amounting to €20.3 million, marks a deterioration of €7.5 million compared with the previous year. This essentially reflects greater operating costs (up €26.5 million) primarily related to the subsidiary, Linha Verde I, adjustment of the fair value of the net assets held for sale in application of IFRS 5 (down €2.9 million), partly offset by net gains on disposals (up €23.0 million).

Basic and diluted earnings per share from discontinued operations and assets held for sale, amounting to a loss of €0.010 per share (the numerator of €20.3 million represents the net loss from assets held for sale, whilst the denominator of 2,006,683,355.2 shares is the weighted average number of shares outstanding during the year).

Under the agreements concluded with CDPQ for the sale of the Brazilian companies, the purchaser has been granted a put option for the sale of SPE Transmissora de Energia Linha Verde II S.A. back to Terna Plus, exercisable under certain conditions, no earlier than 31 December 2025. At the date of preparation of these financial statements the option is not exercisable, is designed to be protective of the counterparty, which does not have a significant economic incentive to exercise it.

At the date of preparation of this document, the following litigation is pending. The outcome has been classed as possible and, as a result, no provision has been made in the financial statements:

- ongoing arbitration between SPE Santa Lucia Transmissora de Energia S.A. and Planova Planejamento e Construções S.A. and Krasis Participações S.A., over responsibility for the delay in achieving the Commercial Operation Date ("COD"), as defined in the EPC contract;
- ongoing arbitration between SPE Transmissora de Energia Linha Verde I S.A. and Québec Engenharia S.A. and Construtora Quebec S.A., over cessation of the obligations provided for in the EPC contract;
- ongoing arbitration between SPE Transmissora de Energia Linha Verde II S.A. and Québec Engenharia S.A. and Construtora Quebec S.A., over cessation of the obligations provided for in the EPC contract.

## 12. Earnings per share

Basic earnings per share, which corresponds to diluted earnings per share, amount to €0.427 (based on profit for the year attributable to owners of the Parent, totalling €857.0 million divided by the number of shares outstanding, totalling 2,006,683,355.2 shares). Earnings per share from continuing operations, which corresponds to diluted earnings per share from continuing operations, is €0.438 (the numerator of €878.0 million is net profit for the year from continuing operations, whilst the denominator of 2,006,683,355.2 shares, is the weighted average number of shares outstanding during the year).

## C. Operating segments

In line with the 2021-2025 Industrial Plan, and in compliance with IFRS 8, the Terna Group's identified operating segments are described below:

- **Regulated**
- **Non-Regulated**
- **International**

The Regulated segment includes the development, operation and maintenance of the National Transmission Grid, in addition to dispatching and metering, and the activities involved in the construction of storage systems. These activities have been included in one operating segment, as they are all regulated by ARERA and have similar characteristics, in terms of the remuneration model and the method for setting the related tariffs.

The Non-regulated segment includes deregulated activities and specific business initiatives, above all relating to Industrial activities, which includes the operating results of the Tamini Group, relating essentially to the construction and commercialisation of electrical equipment, above all power transformers, and the Brugg Cables Group, which operates in the terrestrial cable sector, specialising in the design, development, construction, installation and maintenance of electrical cables of all voltages and accessories for high-voltage cables. The Non-regulated segment includes initiatives linked above all to the provision of services to third parties in the areas of Energy Solutions, consisting of the development of technical solutions and the supply of innovative services, including EPC (Engineering, Procurement and Construction) services, operation and maintenance of high-voltage and very high-voltage infrastructure, and the supply of energy efficiency services, broadly attributable to the subsidiary, Avvenia The Energy Innovator S.r.l.). This segment also includes Connectivity (support and housing services for fibre networks and IRU contracts for fibre). This segment includes the activities carried out in relation to the private interconnectors launched by Law 99/2009, legislation that assigned Terna responsibility for selecting undertakings (the "selected undertakings"), on the basis of public tenders, willing to finance specific cross-border interconnectors in exchange for the benefits resulting from a decree granting a third-party access exemption with regard to the transmission capacity provided by the new infrastructure. The Non-regulated Activities segment also includes the results of the LT Group, acquired in October 2021 and a leading provider of O&M services for photovoltaic plants.

On the other hand, the International segment includes the results deriving from opportunities for international expansion, which the Group aims to exploit by leveraging its core competencies developed in Italy as a TSO, where such competencies are of significant importance in its home country. Overseas investment focuses on countries with stable political and regulatory regimes and a need to develop their electricity infrastructure. This segment includes the results of the subsidiary Terna Plus S.r.l., the Peruvian company, Terna 4 Chacas S.A.C. (a charitable project), the Chilean company, Terna Chile S.p.A. and the US subsidiary, Terna USA LLC, acquired in August 2022.

The results of the Brazilian companies, SPE Santa Lucia Trasmisora de Energia S.A. and SPE Santa Maria Trasmisora de Energia S.A., SPE Trasmisora de Energia Linha Verde I S.A. and SPE Trasmisora de Energia Linha Verde II S.A., of the Peruvian company, Terna Peru S.A.C., the Uruguayan company, Difebal S.A.C., and the Chilean company, Terna Chile S.p.A., have been reclassified to the "Profit/(Loss) for the year from discontinued operations and assets held for sale".

(€m)

	2022	2021	CHANGE	% CHANGE
REGULATED REVENUE	2,542.3	2,253.5	288.8	12.8%
NON-REGULATED REVENUE	421.4	350.9	70.5	20.1%
INTERNATIONAL REVENUE*	0.8	0.4	0.4	100.0%
Cost of international activities	-	1.5	(1.5)	(100.0%)
<b>TOTAL REVENUE</b>	<b>2,964.5</b>	<b>2,606.3</b>	<b>358.2</b>	<b>13.7%</b>
<b>GROSS OPERATING PROFIT (EBITDA)**</b>	<b>2,059.2</b>	<b>1,854.8</b>	<b>204.4</b>	<b>11.0%</b>
of which regulated EBITDA ***	2,007.0	1,800.5	206.5	11.5%
of which non-regulated EBITDA	57.5	61.8	(4.3)	(7.0%)
of which International EBITDA	(5.3)	(7.5)	2.2	(29.7%)
<b>Reconciliation of segment result with the Company's profit before tax</b>				
<b>GROSS OPERATING PROFIT (EBITDA)</b>	<b>2,059.2</b>	<b>1,854.8</b>		
Amortisation, depreciation and impairment losses	725.7	654.4		
<b>OPERATING PROFIT/(LOSS) (EBIT)</b>	<b>1,333.5</b>	<b>1,200.4</b>		
Financial income/(expenses)	(99.1)	(79.2)		
Share of profit/(loss) of investees accounted for using the equity method	(1.0)	0.3		
<b>Profit/(Loss) before tax</b>	<b>1,233.4</b>	<b>1,121.5</b>		

\* Directly includes the margin earned on overseas concessions.

\*\* Gross operating profit - EBITDA is an indicator of operating performance, obtained by adding "Amortisation, depreciation and impairment losses" to "Operating profit/(loss) (EBIT)".

\*\*\* EBITDA including indirect costs.

The Group's revenue for 2022 amounts to €2,964.5 million, an increase of €358.2 million (13.7%) compared with 2021. Gross operating profit (EBITDA) of €2,059.2 million is up €204.4 million (11.0%) on the €1,854.8 million of 2021.

**EBITDA from Regulated Activities amounts to €2,007.0 million, an increase of €206.5 million** compared with the figure for the previous year. This primarily reflects the impact on tariff revenue and incentives (up €263.8 million) of the effect of output-based incentive mechanisms, the increase in the regulated asset base during the period, after the decrease reflecting the reduction in the WACC recognised for 2022 (equal to 5%, compared with the previous 5.6%) and the volume effect.

**EBITDA from Non-regulated Activities amounts to €57.5 million in 2022, a decrease of €4.3 million** compared with 2021. This reflects the reduced volume of IRU contracts for fibre concluded classified under revenue from connectivity services (down €7.6 million), partially offset by the greater contribution of the private Italy-France interconnector (up €2.2 million), essentially following its entry into service in November 2022.

**Negative EBITDA from International Activities, amounting to €5.3 million for 2022** essentially reflects the costs incurred by central departments to support overseas initiatives and marks an improvement of €2.2 million compared with the previous year (negative EBITDA of €7.5 million). This primarily reflects the impact on personnel expenses of a reduction in the average workforce following the reorganisation carried out within the Group.

**Discontinued operations and assets held for sale report a net loss of €20.3 million**, marking a deterioration of €7.5 million compared with the previous year. This essentially reflects increased losses and the adjustment to the value of discontinued operations and net assets held for sale, partially offset by the gain resulting from the first two transaction closings for the sale to CDPQ of the Latin American assets, which took place in November and December 2022. Further details are provided in the specific section of the notes to the consolidated financial statements.

Information on the financial position periodically reported to senior management is not provided directly on the basis of each individual segment, but based on the measurement and presentation of gross invested capital as a whole, given that the contribution from Non-regulated and International Activities is not material. The following table shows this indicator at 31 December 2022 and 31 December 2021.

	(€m)	
	31 DECEMBER 2022	31 DECEMBER 2021
Net non-current assets *	17,485.3	16,352.9
<i>of which investments in associates and joint ventures</i>	73.8	76.2
Net working capital **	(2,732.8)	(1,706.7)
Gross invested capital ***	14,752.5	14,646.2

\* *Net non-current assets include the value of "Property, plant and equipment", "Goodwill", "Intangible assets", "Investments accounted for using the equity method", "Other non-current assets" and "Non-current financial assets", excluding the value of cash flow hedges (€75.5 million).*

\*\* *Net working capital is the difference between total current assets less cash and the items, "Current financial assets" and total current liabilities, less the short-term portion of long-term borrowings and the items, "Short-term borrowings" and "Current financial liabilities", and the item, "Other non-current liabilities".*

\*\*\* *Gross invested capital is the sum of net non-current assets and net working capital.*

## D. Notes to the consolidated statement of financial position

### Assets

#### 13. Property, plant and equipment – €16,200.9 million

(€m)

	LAND	BUILDINGS	PLANT AND EQUIPMENT	INDUSTRIAL AND COMMERCIAL EQUIPMENT	OTHER ASSETS	ASSETS UNDER CONSTRUCTION AND PREPAYMENTS	TOTAL
<b>COST AT 31 DECEMBER 2021</b>	<b>211.7</b>	<b>2,287.9</b>	<b>20,162.3</b>	<b>213.1</b>	<b>211.1</b>	<b>2,192.7</b>	<b>25,278.8</b>
Investment	1.0	3.6	1.3	7.6	40.1	1,491.2	1,544.8
<i>of which right-of-use assets</i>	1.0	2.8	-	-	32.8	-	36.6
<i>of which finance leased assets</i>	-	-	0.4	-	-	-	0.4
Assets entering service	3.8	110.7	957.8	8.3	20.1	(1,100.7)	-
Translation differences	-	2.0	-	3.6	0.3	-	5.9
<i>of which right-of-use assets</i>	-	(0.1)	-	-	-	-	(0.1)
Disposals and impairments	(0.1)	(2.0)	(111.0)	(0.4)	(2.8)	(8.3)	(124.6)
<i>of which right-of-use assets</i>	-	(1.3)	-	-	(1.1)	-	(2.4)
<i>of which finance leased assets</i>	-	-	(1.1)	-	-	-	(1.1)
Other movements	1.3	1.1	(30.6)	-	0.5	6.4	(21.3)
<i>of which right-of-use assets</i>	-	-	-	-	0.6	-	0.6
<b>COST AT 31 DECEMBER 2022</b>	<b>217.7</b>	<b>2,403.3</b>	<b>20,979.8</b>	<b>232.2</b>	<b>269.3</b>	<b>2,581.3</b>	<b>26,683.6</b>
<b>ACCUMULATED DEPRECIATION AND IMPAIRMENT AT 31 DECEMBER 2021</b>	<b>(1.5)</b>	<b>(733.8)</b>	<b>(8,891.5)</b>	<b>(173.8)</b>	<b>(161.6)</b>	<b>-</b>	<b>(9,962.2)</b>
Depreciation for the year	(0.7)	(63.7)	(533.1)	(8.5)	(18.2)	-	(624.2)
<i>of which right-of-use assets</i>	(0.7)	(7.2)	-	-	(1.8)	-	(9.7)
<i>of which finance leased assets</i>	-	-	(2.5)	-	-	-	(2.5)
Translation differences	-	(0.5)	-	(3.4)	(0.3)	-	(4.2)
Disposals	-	1.0	107.1	0.3	2.6	-	111.0
<i>of which right-of-use assets</i>	-	0.5	-	-	0.7	-	1.2
<i>of which finance leased assets</i>	-	-	0.7	-	-	-	0.7
Other movements	-	(1.8)	(1.3)	0.2	(0.2)	-	(3.1)
<b>ACCUMULATED DEPRECIATION AND IMPAIRMENT AT 31 DECEMBER 2022</b>	<b>(2.2)</b>	<b>(798.8)</b>	<b>(9,318.8)</b>	<b>(185.2)</b>	<b>(177.7)</b>	<b>-</b>	<b>(10,482.7)</b>
<b>Carrying amount</b>							
<b>AT 31 DECEMBER 2022</b>	<b>215.5</b>	<b>1,604.5</b>	<b>11,661.0</b>	<b>47.0</b>	<b>91.6</b>	<b>2,581.3</b>	<b>16,200.9</b>
<i>of which right-of-use assets</i>	5.6	34.7	-	-	33.7	-	74.0
<i>of which finance leased assets</i>	-	0.6	19.4	-	2.1	-	22.1
<b>AT 31 DECEMBER 2021</b>	<b>210.2</b>	<b>1,554.1</b>	<b>11,270.8</b>	<b>39.3</b>	<b>49.5</b>	<b>2,192.7</b>	<b>15,316.6</b>
<i>of which right-of-use assets</i>	5.3	40.0	-	-	2.5	-	47.8
<i>of which finance leased assets</i>	-	0.6	21.9	-	1.5	-	24.0
<b>Change</b>	<b>5.3</b>	<b>50.4</b>	<b>390.2</b>	<b>7.7</b>	<b>42.1</b>	<b>388.6</b>	<b>884.3</b>

The category, "Plant and equipment" at 31 December 2022 includes the electricity transmission grid and transformer substations in Italy.

“Property, plant and equipment” is up €884.3 million compared with 31 December 2021, reflecting ordinary movements during the year as a result of:

- investment of €1,544.8 million during the year, including €1,481.5 million in the Group’s Regulated Activities and €63.3 million in Non-regulated Activities, primarily with regard to the private Italy-France and Italy-Austria interconnectors and the re-routing of power lines at the request of third parties;
- depreciation for the year of €624.2 million;
- other changes during the year, resulting in a reduction of €22.7 million, including grants related to assets (primarily in relation to projects financed by the Ministry for Economic Development and the EU and the re-routing of power lines at the request of third parties);
- disposals and impairments (down €13.6 million).

A summary of movements in property, plant and equipment during the year is shown below.

	(€m)
<b>Investment</b>	
- Power lines	867.2
- Transformer substations	503.6
- Other	174.0
<b>Total investment in property, plant and equipment</b>	<b>1.544.8</b>
Depreciation for the year	(624.2)
Other changes	(24.4)
Disposals and impairments	(13.6)
Translation differences	1.7
<b>TOTAL</b>	<b>884.3</b>

The following information regards work on the principal projects during the year in relation to Regulated Activities: the start of design work for the construction of the Tyrrhenian Link (€110.8 million), the installation of synchronous compensators and STATCOM systems (€83.7 million and €38.7 million, respectively), progress on construction of the Paternò-Pantano-Priolo power line (€32.6 million), Elba-Mainland (€31.3 million), Colunga-Calenzano (€26.4 million) and the Italy-France interconnector (€17.2 million, with entry into service of the private section in November), the construction of reactors (€21.0 million), extension of the fibre network as part of the “Fibre for the Grid” project (€16.3 million), and the construction of substations at Vizzini (€18.9 million), Cerignola (€15.9 million), Magenta (€12.3 million) and Celano (€10.3 million).

#### 14. Goodwill – €251.5 million

Goodwill regards the Parent Company’s acquisition of Terna Rete Italia S.r.l. in previous years, accounted in the financial statements at a carrying amount of €101.6 million, the acquisition of RTL, with a carrying amount of €88.6 million, the acquisition of Rete S.r.l., with a carrying amount of €26.3 million, the acquisition of TES - Transformer Electro Services by the Tamini Group, with a carrying amount of €13.6 million, and the acquisitions carried out by the parent Company in 2021 through the subsidiary, Terna Energy Solutions S.r.l., a 75% interest in LT S.r.l. (LT Group) in October, accounted for at a carrying amount of €19.9 million and through the Brugg Cables Group, a 100% interest in Laser TLC S.r.l. in November, accounted for at a carrying amount of €1.5 million.

The reduction in this item, amounting to €5.0 million compared with 31 December 2021, is due to final measurement of the business combination relating to the acquisition of the LT Group in 2021.

#### Impairment testing

For the purposes of impairment testing, goodwill has been allocated to three cash generating units (CGUs): the first consisting of “Transmission activities” within the Group’s Regulated Activities, amounting to €216.5 million, and the second relating to the “Production and commercialisation of transformers”, forming part of the Group’s Non-regulated Activities, totalling €13.6 million. The third relates to the production and sale of energy from renewable sources (€19.9 million).

Disclosures regarding the impairment testing of the goodwill allocated to the Group's "Transmission" CGU are provided below. Measurement of the recoverable value of the goodwill allocated to the transmission activities was based on fair value less costs of disposal. Determination of the carrying amount of the CGU represented by the NTG was based on Terna S.p.A.'s net invested capital at 31 December 2022, appropriately adjusted for the assets and liabilities not falling within the scope of Transmission activities (e.g., Dispatching, Non-regulated and International activities). The recoverable amount was based on fair value after applying an EBITDA multiple to the operating profit of the CGU represented by the NTG. This multiple was calculated at the level of the Group, as the ratio between the enterprise value (the sum of the stock market capitalization and net debt) and the Terna Group EBITDA. The result obtained is significantly higher than the carrying amount recognised in the financial statements inclusive of goodwill.

The impairment test of the CGU represented by the production and commercialisation of transformers was based on fair value less costs of disposal, determined on the basis of the average EBITDA multiple for the sector. Measurement of the recoverable value was based on estimated fair value applying the EBITDA multiple for 2024. This multiple was approximately 11.2, the average for a sample of companies operating in the sector. The resulting fair value was then appropriately discounted to present value at the end of 2022. The resulting value is higher than the carrying amount inclusive of goodwill.

With regard to the CGU related to the production and sale of energy from renewable sources, in accordance with IFRS 3, the purchase price allocation process was initiated and concluded in 2022, establishing the purchase price of the assets and liabilities. Taking into account the assessment conducted, the correct value of goodwill was calculated. The subsidiary's business plan and the projections made by Terna's management at the time of the acquisition also foresee strong earnings growth in the coming years.

## 15. Intangible assets – €524.3 million

(€m)

	INFRASTRUCTURE RIGHTS	CONCESSIONS	OTHER ASSETS	ASSETS UNDER DEVELOPMENT AND PREPAYMENTS	TOTAL
Cost	525.2	135.4	587.0	73.2	1,320.8
Accumulated amortisation	(394.9)	(90.5)	(435.4)	-	(920.8)
<b>BALANCE AT 31 DECEMBER 2021</b>	<b>130.3</b>	<b>44.9</b>	<b>151.6</b>	<b>73.2</b>	<b>400.0</b>
Investment	-	-	1.3	210.7	212.0
Assets entering service	57.8	-	117.7	(175.5)	-
Contribution from business combinations	-	-	5.2	-	5.2
Amortisation for the year	(26.7)	(5.6)	(60.9)	-	(93.2)
Other movements	-	-	-	0.3	0.3
<b>BALANCE AT 31 DECEMBER 2022</b>	<b>161.4</b>	<b>39.3</b>	<b>214.9</b>	<b>108.7</b>	<b>524.3</b>
Cost	583.0	135.4	711.2	108.7	1,538.3
Accumulated amortisation	(421.6)	(96.1)	(496.3)	-	(1,014.0)
<b>BALANCE AT 31 DECEMBER 2022</b>	<b>161.4</b>	<b>39.3</b>	<b>214.9</b>	<b>108.7</b>	<b>524.3</b>
<b>Change</b>	<b>31.1</b>	<b>(5.6)</b>	<b>63.3</b>	<b>35.5</b>	<b>124.3</b>

Intangible assets amount to €524.3 million (€400.0 million at 31 December 2021); this item includes:

- the infrastructure used in provision of the dispatching service in Italy accounted for in accordance with "IFRIC 12 – Service Concession Arrangements". The carrying amount, at 31 December 2022, is €161.4 million for infrastructure in service, whilst the carrying amount of infrastructure under construction, included in the category "Assets under development and prepayments", is €46.1 million (at 31 December 2021 €130.3 million and €32.1 million, respectively);
- the concession for electricity transmission and dispatching activities in Italy (with a carrying amount of €39.3 million at 31 December 2022); this 25-year concession was recognised in 2005, initially at fair value and subsequently at cost.

Other intangible assets primarily include software applications, either produced internally or purchased as part of systems development programmes, and the contract to provide support services for fibre networks acquired with Rete S.r.l. in



2015 (measured as part of the process of allocating the goodwill acquired by the Terna Group). Investment in these assets during the year, primarily attributable to the Parent Company (€138.7 million), essentially regard internal development programmes.

The increase compared with the previous year (up €124.3 million) broadly reflects the net effect of investment (up €212.0 million, including €72.0 million in infrastructure rights), the contribution from the allocation of goodwill resulting from the Terna Group's acquisition of the LT Group (€5.2 million) and amortisation (down €93.2 million).

Investment in intangible assets during the year (€212.0 million, including €210.7 million attributable to the Parent Company's Regulated Activities), included expenditure on the development of software applications for the Remote Management System for Dispatching (€35.6 million), the Power Exchange (€9.3 million), the Metering System (€2 million) and for protection of the electricity system (€1.9 million), as well as software applications and generic licences (€136.4 million).

## 16. Deferred tax assets – €121.0 million

(€m)

	31 DECEMBER 2021	PROVISIONS	USES AND OTHER MOVEMENTS	EFFECTS RECOGNISED IN COMPREHENSIVE INCOME	31 DECEMBER 2022
<b>DEFERRED TAX LIABILITIES</b>					
Property, plant and equipment	12.4	-	(21.8)	-	(9.5)
Other	(36.5)	-	21.2	-	(15.3)
Employee benefits and financial instruments	(7.1)	-	4.2	-	(2.9)
<b>Total deferred tax liabilities</b>	<b>(31.2)</b>	<b>-</b>	<b>3.6</b>	<b>-</b>	<b>(27.7)</b>
<b>DEFERRED TAX ASSETS</b>					
Property, plant and equipment	-	33.5	23.2	-	56.7
Provisions for risks and charges	18.2	8.6	(5.5)	-	21.2
Allowance for doubtful accounts	4.5	0.1	-	-	4.6
Employee benefits	9.4	4.8	(4.6)	1.9	11.5
Cash flow hedges and financial assets	45.1	-	-	(68.9)	(23.8)
Tax relief on goodwill	17.8	-	(3.0)	-	14.8
Other	82.9	9.4	(28.6)	-	63.7
<b>Total deferred tax assets</b>	<b>177.9</b>	<b>56.4</b>	<b>15.0</b>	<b>(67.1)</b>	<b>148.6</b>
<b>NET DEFERRED TAX ASSETS</b>	<b>146.6</b>	<b>56.4</b>	<b>18.6</b>	<b>(67.1)</b>	<b>121.0</b>

The balance of this item, amounting to €121.0 million, includes the net impact of movements in the Group's deferred tax assets and liabilities.

Deferred tax assets (€148.6 million) are down by a net amount compared with the amount at 31 December 2021 (€177.9 million). These assets underwent the following movements during the year:

- net uses that impact profit or loss, totalling €67.1 million, primarily reflecting the tax effect of movements in cash flow hedges and employee benefits;
- provisions recognised by Terna S.p.A. for the non-deductible portion of book depreciation recognised by the subsidiary (€33.5 million);
- use of the accrued portion recognised in relation to tax relief on the goodwill resulting from the merger of Terna Rete Italia S.r.l. and attributable to the Parent Company (€3.0 million);
- net provisions for risks and charges (€3.1 million), primarily reflecting the impact on taxation of the release of provisions for quality of service (€0.6 million) and uses for early retirement incentives (€1.4 million);
- net provisions and other movements, totalling €19.2 million, primarily regarding the recognition of deferred tax assets revaluations of properties and on other items recognized by the overseas companies.

Deferred tax liabilities (€27.7 million) are down by a net amount of €3.6 million, essentially due to net provisions and other movements of €4.2 million, primarily following the recognition of deferred tax liabilities on other provisions made by the Brugg Cables Group.

### 17. Investments accounted for using the equity method – €73.8 million

This item, amounting to €73.8 million, regards the Parent Company's investments in the associate CESI S.p.A. (€45.4 million), the associate CORESO S.A. (€0.8 million), the associate CGES – CrnoGorski Elektroprenosni Sistem AD (€26.7 million), the associate Equigy B.V. (€0.4 million) and in the joint ventures, ELMED Etudes S.a.r.l. (€0.2 million), SEleNe CC S.A. (€0.1 million) and BMT Energy Transmission Development LLC (€0.2 million), a US company established on 2 November 2022, 40% owned by the subsidiary, Terna USA LLC, with the remaining shares held by third parties.

The reduction compared with the previous year, totalling €2.4 million, essentially reflects the adjustment of the Group's share of equity at 31 December 2022 in the associate CESI S.p.A. (down €2.7 million) and recognition of the share of equity in the new joint venture, BMT Energy Transmission Development LLC (up €0.2 million).

Financial information for the Terna Group's main associates is provided below:

(€m)

	AT 31 DECEMBER 2022				EQUITY
	NON-CURRENT ASSETS	CURRENT ASSETS	NON-CURRENT LIABILITIES	CURRENT LIABILITIES	
CESI	191	25	24	(*)	102
CORESO	10	3	0	8	5
CGES	254	62	64	33	219
EQUIGY	2	1	0	1	2

(\*)The pre-closing amount for 2022 does not provide a breakdown of working capital.

(€m)

	2022		
	REVENUE	PROFIT/(LOSS) BEFORE TAX	PROFIT/(LOSS) FOR THE YEAR
CESI	155	(4)	(5)
CORESO	28	1	1
CGES	120	25	21
EQUIGY	6	1	1

**18. Financial assets**

(€m)

	MEASUREMENT	31 DECEMBER 2022	31 DECEMBER 2021	CHANGE
Deposit in the Guarantee Fund	Amortised cost	299.1	241.4	57.7
Fair value hedges	FVTPL	-	1.6	(1.6)
Cash flow hedges	FVTOCI	75.5	-	75.5
Government securities	FVTOCI	119.6	23.1	96.5
Financial assets included in employee benefit plan assets	FVTOCI	-	21.4	(21.4)
Other non-current financial assets	FVTOCI	0.1	0.1	-
Other investments	FVTOCI	0.1	0.1	-
<b>NON-CURRENT FINANCIAL ASSETS</b>		<b>494.4</b>	<b>287.7</b>	<b>206.7</b>
Government securities	FVTOCI	148.8	958.5	(809.7)
Other securities	FVTPL-FVTOCI	98.0	-	98.0
Deferred assets on fair value hedges		-	4.3	(4.3)
Deferred assets on cash flow hedges		3.5	-	3.5
Currency derivatives	FVTOCI	0.2	-	0.2
Other current financial assets		4.8	17.8	(13.0)
<b>CURRENT FINANCIAL ASSETS</b>		<b>255.3</b>	<b>980.6</b>	<b>(725.3)</b>

“Non-current financial assets” are up €206.7 million, compared with the previous year, reflecting:

- the balance, amounting to €75.5 million, of cash flow hedges hedging bonds and bank borrowings compared with the liability recognised at 31 December 2021; this amount was measured by discounting expected cash flows using market interest rates at the measurement date;
- an increase of €96.5 million in holdings of Italian government securities;
- a decrease in the benefit plan assets attributable to the employees of the Brugg Cables Group (down €21.4 million);
- an increase in the Interconnector Guarantee Fund, set up to fund investment in interconnections by art. 32 of Law 99/09 (up €19.6 million) and deposits by operators who participate in the capacity market pursuant to Resolution 98/2011/R/eel, as amended (up €38.1 million).

“Current financial assets” are down €725.3 million compared with the previous year, primarily following the repayment of Italian government securities held (down €809.7 million), the change in accrued but yet to be collected interest on financial products (down €13.0 million, primarily on government securities), partly offset by further investment in other securities during the year (up €98.0 million).

**19. Other assets**

(€m)

	31 DECEMBER 2022	31 DECEMBER 2021	CHANGE
Loans and advances to employees	11.0	10.4	0.6
Deposits with third parties	4.8	6.9	(2.1)
Other non-current assets	0.1	0.2	(0.1)
<b>OTHER NON-CURRENT ASSETS</b>	<b>15.9</b>	<b>17.5</b>	<b>(1.6)</b>
Other tax credits	86.4	11.2	75.2
Prepayments to suppliers	9.2	11.0	(1.8)
Prepayments of operating expenses and accrued operating income	22.7	16.8	5.9
Amounts due from partners selected for Interconnector projects	3.1	3.6	(0.5)
Amounts due from others	70.5	40.5	30.0
<b>OTHER CURRENT ASSETS</b>	<b>191.9</b>	<b>83.1</b>	<b>108.8</b>

“Other non-current assets” amount to €15.9 million and are down €1.6 million compared with the previous year. This primarily reflects decreases in guarantee deposits paid under contracts with public bodies and authorities (down €2.1 million) offset by an increase in loans to employees (up €0.6 million).

“Other current assets”, totalling €191.9 million, are up €108.8 million compared with 31 December 2021, primarily reflecting:

- other tax credits (up €75.2 million), mainly reflecting an increase in the Group’s refundable VAT (up €75.0 million);
- amounts due from others (up €30.0 million), broadly reflecting the acquisition of receivables related to the 110% bonus during the year by the subsidiary, Avvenia (€12.8 million) and an increase in amounts receivable by the Parent Company, Terna S.p.A. (up €9.5 million);
- an increase in prepaid expenses accruing after 31 December 2022 (up €5.9 million), including €4.6 million attributable above all to maintenance on third-party fibre networks, €0.5 million in rentals and €0.8 million in the form of insurance premiums.

## 20. Inventories – €83.0 million

This item, amounting to €83.0 million, is up €13.1 million compared with the previous year. This primarily reflects materials to be used in contract work by the subsidiary, Brugg Cables Group (up €6.2 million), by the LT Group (up €5.6 million) and by the Tamini Group (up €1.2 million).

## 21. Trade receivables – €2,358.3 million

(€m)

	31 DECEMBER 2022	31 DECEMBER 2021	CHANGE
Energy-related receivables	1,622.8	2,197.0	(574.2)
Transmission charges receivables	472.8	395.8	77.0
Other trade receivables	262.7	184.6	78.1
<b>TOTAL</b>	<b>2,358.3</b>	<b>2,777.4</b>	<b>(419.1)</b>

Trade receivables amount to €2,358.3 million at 31 December 2022 and are accounted for less any losses and recognised in the allowance for doubtful accounts (€19.7 million for energy-related receivables and €17.4 million for other items in 2022, compared with €33.2 million for energy-related items and €16.4 million for other items in 2021, with further details provided in the section “E. Commitments and risks”). The carrying amount shown broadly approximates to fair value.

The measurement of expected credit losses is described in the section, “A. Accounting policies and measurement criteria”.

### Energy-related/regulated receivables – €1,622.8 million

This item includes so-called “pass-through items” relating to the Parent Company’s activities in accordance with Resolution 111/06 (€1,260.5 million) and receivables due from the users of dispatching services forming part of Regulated Activities (€356.3 million). It also includes the amount due from the Fund for Energy and Environmental Services (*Cassa per i Servizi Energetici e Ambientali* – CSEA) (€5.9 million), relating to quality of service and output-based regulation.

These receivables are down €574.2 million compared with the end of 2021, primarily due to:

- a decrease in the Uplift (€800.2 million), reflecting the sharp reduction in energy-related costs, above all the cost of procuring services on the DSM, as partly reflected in the reduction in receivables relating to this market (€109.2 million); partly offset by the recognition of receivables related to output-based incentives (resolutions 699/2018 and 597/2021, commented on in the note to “Revenue from sales and services”);
- bonus recognised by Resolution 26/2023, so called intrazonal incentive<sup>5</sup> (€140.5 million);
- annual bonus related to the DSM incentive<sup>6</sup> (€194.2 million).

<sup>5</sup> Intrazonal incentive introduced by ARERA Resolution 699/2018 determined based on the benefits deriving from grid works during the three year period 2019-2021, designed to resolve domestic congestion, grid constraints due to voltage regulation and improve conditions for essential service provision.

<sup>6</sup> DSM incentive introduced by Resolution 597/2021 related to the three year incentive system (2022-2024) designed to reduce the cost of procuring services on the DSM, the shortfall in wind production and essential services.

**Transmission charges receivable – €472.8 million**

Transmission charges receivable, amounting to €472.8 million, represent the amount due to the Parent Company and other grid owners from electricity distributors for use of the National Transmission Grid. The receivable is up €77 million compared with 31 December 2021, linked broadly to the impact of:

- factoring transactions completed at the end of 2021 (€40 million);
- revised tariffs and recognition of the accrued amount due as a return on digital substation systems in accordance with ARERA Resolution 565/2020 (totalling €37 million).

**Other trade receivables – €262.7 million**

Other trade receivables primarily regard amounts receivable from customers of the non-regulated business. These amounts derive from the provision of specialist services to third parties, primarily in relation to plant engineering services, the operation and maintenance of high-voltage and very high-voltage infrastructure, and the housing of telecommunications equipment and maintenance services for fibre networks, as well as in relation to contract work carried out by the Tamini Group, Brugg Cables Group and the LT Group.

This item is up €78.1 million compared with the previous year, broadly due to increases in contract work at the Brugg Cables Group (up €5.0 million) and the Tamini Group (up €22.7 million). Further increases in receivables are attributable to the Parent Company (up €41.1 million) and the subsidiaries, Terna Rete Italia S.p.A. (up €20.1 million) and Terna Energy Solutions S.r.l. (up €11.5 million).

The following table shows receivables resulting from contract work in progress (€99.8 million), being carried out by the Group under multi-year contracts with third parties:

(€m)

	PRE-PAYMENTS	VALUE OF CONTRACT	BALANCE AT 31 DECEMBER 2022	PREPAYMENTS	VALUE OF CONTRACT	BALANCE AT 31 DECEMBER 2021
Receivables resulting from contract work in progress	(305.4)	405.2	99.8	(447.3)	533.7	86.4

The Group's receivables resulting from contract work in progress are up €13.4 million, primarily in relation to the increase in contract work at the subsidiaries, Terna Rete Italia S.p.A. (up €3.2 million) and Terna Energy Solutions S.r.l. (up €2.4 million) and the Tamini Group (up €18.5 million), partially offset by a reduction in contract work at the subsidiary, Brugg Cables Group (down €10.9 million).

**22. Cash and cash equivalents – €2,155.1 million**

Cash amounts to €2,155.1 million at 31 December 2022, including €1,527.9 million invested short-term readily convertible deposits and €627.2 million deposited in bank current accounts and cash in hand.

**23. Income tax assets – €6.8 million**

Income tax assets, amounting to €6.8 million, are up €2.0 million compared with the previous year, essentially reflecting an accrued IRES refund receivable by a subsidiary recognised at 31 December 2022.

## Equity and liabilities

### 24. Equity attributable to owners of the Parent and non-controlling interests

#### **Equity attributable to owners of the Parent – €6,142.0 million**

##### *Share capital – €442.2 million*

The Parent Company's share capital consists of 2,009,992,000 ordinary shares with a par value of €0.22 per share.

##### *Legal reserve – €88.4 million*

The legal reserve accounts for 20% of the Parent Company's share capital.

##### *Reserve for treasury shares - (€29.5) million*

In implementation of the buyback programme linked to the Performance Share Plan 2022-2026, approved by the Annual General Meeting of 29 April 2022, in the period between 27 May 2022 and 13 June 2022, the Parent Company purchased 1,280,717 own shares (equal to 0.064% of the share capital), at a cost of €10.0 million to service the Performance Share Plan 2022-2026.

These shares are in addition to the 3,095,192 own shares purchased by the Company in 2020 and 2021.

As a result, Terna S.p.A. now holds a total of 4,375,909 treasury shares (equal to 0.218% of the share capital), purchased at a cost of €29.5 million, thereby reducing other reserves by this amount.

##### *Reserve for equity instruments – €989.0 million*

On 2 February 2022, the Parent Company issued perpetual hybrid green bonds with a nominal value of €1 billion, recognised in the reserve for equity instruments at an amount of €989.0 million.

These non-convertible, perpetual, subordinated green bonds are non-callable for six years and will pay coupon interest of 2.375% until 9 February 2028, the first reset date. After this date, the bonds will pay annual interest equal to the 5-year Euro Mid-Swap rate plus a spread of 212.1 basis points. This will be increased by a further spread of 25 basis points from 9 February 2033 and by an additional 75 basis points from 9 February 2048.

##### *Other reserves – €827.3 million*

The other reserves have increased by €212.8 million compared with the previous year, primarily as a result of other comprehensive income. This reflects:

- fair value adjustments to the Parent Company's cash flow hedges for variable rate loans (up €222.7 million including the related hedging costs of €0.6 million, taking into account the related tax liability of €70.3 million);
- the decrease in actuarial gains and losses on provisions for employee benefits (down €10.4 million, taking into account the related taxation of €1.9 million);
- fair value adjustments to financial assets represented by government securities (down €4.4 million, taking into account the related taxation of €1.4 million).

Other reserves also include the increase in the reserve for share options (up €5.8 million), relating to the incentive plan for the Group's personnel involving the above share-based payments (the Performance Share Plan 2022-2026<sup>7</sup>).

##### *Retained earnings and accumulated losses – €3,180.9 million*

The increase in "Retained earnings and accumulated losses", amounting to €216.6 million, primarily regards the remaining portion of the Group's profit for 2021 (up €204.3 million), following the Parent Company's payment of the dividend for

<sup>7</sup> The LTI Plan 2022-2026 involves the grant of the right to the award of a certain number of shares in Terna S.p.A. (Performance Shares) free of charge at the end of a performance period, provided that the performance objectives to which the Plan is linked have been achieved.

2021 (totalling €585.1 million). This item includes the translation differences resulting from the conversion of financial statements in currencies other than the euro (up €36.2 million), recognition of the interest accruing on the hybrid green bonds (down €21.1 million) and the reduction of €1.7 million due to completion of the first and second transaction closing for the sale of the Latin American asset portfolio to CDPQ, in November and December 2022, respectively.

#### *Interim dividend for 2022 and the final dividend for 2021*

On 9 November 2022, the Company's Board of Directors, having obtained the Independent Auditor's opinion required by article 2433-bis of the Italian Civil Code, decided to pay an interim dividend of 10.61 euro cents per share. The dividend was payable from 23 November 2022, with an ex-dividend date for coupon 37 on 21 November 2022. The dividend was paid to the holders of each ordinary share outstanding, with the exception of the amount payable on treasury shares held at the record date of 22 November 2022 (amounting to €464,283.94 which was taken to retained earnings).

The Annual General Meeting of shareholders held on 29 April 2022 approved payment of a dividend for full-year 2021 of 29.11 euro cents per share, and the payment – before any withholdings required by law – of a final dividend of 19.29 euro cents per share, to be added to the interim dividend of 9.82 euro cents already paid on 24 November 2021. The final dividend was payable from 22 June 2022 with an ex-dividend date for coupon 36 of 20 June 2022.

#### **Equity attributable to non-controlling interests – €27.1 million**

Equity attributable to non-controlling interests, relating to the non-controlling shareholders of Terna Interconnector S.r.l., SPE Transmissora de energia Linha Verde I S.A., Brugg Cables Group, ESPERIA-CC S.r.l. and LT Group, amounts to €27.1 million, a reduction of €4.0 million compared with 31 December 2021.

This change primarily reflects the payment of a dividend approved on 27 September 2022 by the General Meeting of shareholders of the subsidiary, Terna Interconnector. The amount due to the non-controlling shareholder, Transenergia S.r.l. was €3.0 million. A further dividend was paid by the subsidiary, LT S.r.l., on 14 March 2022, with the amount due to the non-controlling shareholder, Solaris S.r.l., amounting to €0.4 million. There was also a decrease due to translation differences resulting from the translation of financial statements in currencies other than the euro (down €1.3 million). The change also reflects the share of profit for the period attributable to non-controlling shareholders recognised by Terna Interconnector S.r.l. (€2.4 million), Brugg Cables Group (€0.6 million), Linha Verde I S.A. (down €3.1 million) and the LT Group (€0.8 million).

## **25. Borrowings and financial liabilities**

	31 DECEMBER 2022	31 DECEMBER 2021	CHANGE
Bond issues	5,078.9	6,925.6	(1,846.7)
Bank borrowings	3,337.8	1,909.4	1,428.4
<b>LONG-TERM BORROWINGS</b>	<b>8,416.7</b>	<b>8,835.0</b>	<b>(418.3)</b>
Cash flow hedges	-	83.7	(83.7)
Fair value hedges	247.2	-	247.2
<b>NON-CURRENT FINANCIAL LIABILITIES</b>	<b>247.2</b>	<b>83.7</b>	<b>163.5</b>
<b>SHORT-TERM BORROWINGS</b>	<b>444.1</b>	<b>1,947.0</b>	<b>(1,502.9)</b>
Bond issues	1,658.8	999.9	658.9
Bank borrowings	250.5	640.1	(389.6)
<b>CURRENT PORTION OF LONG-TERM BORROWINGS</b>	<b>1,909.3</b>	<b>1,640.0</b>	<b>269.3</b>
<b>CURRENT FINANCIAL LIABILITIES</b>	<b>44.9</b>	<b>45.8</b>	<b>(0.9)</b>
<b>TOTAL</b>	<b>11,062.2</b>	<b>12,551.5</b>	<b>(1,489.3)</b>

Borrowings and financial liabilities are down €1,489.3 million compared with the previous year to €11,062.2 million. The reduction in bond issues (down €1,187.8 million) essentially reflects repayment of the bond issue, totalling €1,000.0 million. The change also reflects the adjustment of the fair value of these financial instruments.

The latest official prices at 31 December 2022 and 31 December 2021 for the bonds listed on the Luxembourg Stock Exchange are detailed below:

(€m)

	ISIN	PRICE AT 31 DECEMBER 2022	PRICE AT 31 DECEMBER 2021
bond maturity 2022:	XS1178105851	n.a.**	100.11
bond maturity 2023*:	XS0328430003	133.90	131.79
bond maturity 2023:	XS1858912915	99.13	101.88
bond maturity 2024:	XS0203712939	102.21	114.02
bond maturity 2025:	XS2033351995	91.69	100.05
bond maturity 2026:	XS1371569978	93.87	104.67
bond maturity 2026:	XS1980270810	92.27	103.30
bond maturity 2027:	XS1652866002	90.25	105.23
bond maturity 2028:	XS2536846236	100.78	n.a.**
bond maturity 2029:	XS1503131713	85.03	103.26
bond maturity 2030:	XS2357205587	80.02	98.89
bond maturity 2032:	XS2237901355	75.66	97.17
bond maturity 2023:	XS2209023402	73.78	99.66

\* Source BNP Paribas and Bloomberg.

\*\* Not applicable.

Compared with the previous year, bank borrowings have increased by €1,038.8 million. This is primarily due to the drawdown of new bank facilities, with a notional amount of €1,800.0 million, after repayments of bank loans, totalling €400.0 million, and repayments of existing EIB loans. The change also reflects the adjustment of the fair value of these financial instruments.



**Long-term borrowings**

The following table shows movements in long-term debt during the period, including the nominal amount:

(€m)

	31 DECEMBER 2021							31 DECEMBER 2022		
	NOTIONAL DEBT	CARRYING AMOUNT	FAIR VALUE	REPAYMENTS AND CAPITALISATIONS	DRAWDOWNS	OTHER	CHANGE IN THE CARRYING AMOUNT	NOTIONAL DEBT	CARRYING AMOUNT	FAIR VALUE
Bond maturing 2022	1,000.0	999.9	1,001.1					-	-	-
IL bond	594.1	622.9	783.0	-	-	36.7	36.7	662.0	659.6	886.4
Bond maturing 2023	1,000.0	997.8	1,018.8	-	-	1.4	1.4	1,000.0	999.2	991.3
Bond maturing 2024	800.0	889.8	912.2	-	-	(31.6)	(31.6)	800.0	858.2	817.7
Bond maturing 2025	500.0	496.6	500.2	-	-	0.9	0.9	500.0	497.5	458.4
Private Placement 2026	80.0	79.4	83.7	-	-	0.1	0.1	80.0	79.5	75.1
Bond maturing 2026	500.0	498.5	516.5	-	-	0.4	0.4	500.0	498.9	461.3
Private Placement 2027	-	-	-	-	100.0	(0.2)	99.8	100.0	99.8	100.8
Bond maturing 2027	1,000.0	1,013.7	1,052.3	-	-	(28.8)	(28.8)	1,000.0	984.9	902.4
Bond maturing 2028	750.0	763.7	774.5	-	-	(58.1)	(58.1)	750.0	705.6	637.7
Bond maturing 2029	600.0	596.7	593.3	-	-	0.4	0.4	600.0	597.1	480.1
Bond maturing 2030	500.0	496.1	485.8	-	-	(92.3)	(92.3)	500.0	403.8	378.3
Bond maturing 2032	500.0	470.4	498.3	-	-	(116.8)	(116.8)	500.0	353.6	368.9
<b>Total bond issues</b>	<b>7,824.1</b>	<b>7,925.5</b>	<b>8,219.7</b>	<b>(1,000.0)</b>	<b>100.0</b>	<b>(287.8)</b>	<b>(1,187.8)</b>	<b>6,992.0</b>	<b>6,737.7</b>	<b>6,558.4</b>
Borrowings	2,512.6	2,512.6	2,512.6	(633.2)	1,800.0	(158.8)	1,008.0	3,524.3	3,520.6	,520.6
Lease liabilities	36.9	36.9	36.9	(7.3)	0.9	37.2	30.8	67.7	67.7	67.7
<b>Total borrowings</b>	<b>2,549.5</b>	<b>2,549.5</b>	<b>2,549.5</b>	<b>(640.5)</b>	<b>1,800.9</b>	<b>(121.6)</b>	<b>1,038.8</b>	<b>3,592.0</b>	<b>3,588.3</b>	<b>3,588.3</b>
<b>Total debt</b>	<b>10,373.6</b>	<b>10,475.0</b>	<b>10,769.2</b>	<b>(1,640.5)</b>	<b>1,900.9</b>	<b>(409.4)</b>	<b>(149.0)</b>	<b>10,584.0</b>	<b>10,326.0</b>	<b>10,146.7</b>

At 31 December 2022, the Terna Group's has access to additional financing of €3,150.0 million, represented by two revolving credit facilities.

In addition, as provided for in IFRS 7, the table shows the fair value of borrowings and bond issues. In the case of bond issues, this is market value based on prices at the reporting date, whilst variable rate loans are measured by discounting expected cash flows based on the market interest rate curve at the reporting date.

The following table shows an analysis of bond issues and other borrowings by maturity, showing the related short-term portions.

(€m)

MATURITY	31 DECEMBER 2021*	31 DECEMBER 2022*	PORTION FALLING DUE WITHIN 12 MONTHS	PORTION FALLING DUE AFTER 12 MONTHS	2024	2025	2026	2027	2028	AFTER OTHER**	AVERAGE INTEREST RATE AT 31 DECEMBER 2022	AVERAGE INTEREST RATE AFTER HEDGES AT 31 DECEMBER 2022
	2022	999.9	-	-	-	-	-	-	-	-	0.88%	0.98%
	2023	622.9	659.6	659.6	-	-	-	-	-	-	2.73%	8.52%
	2023	997.8	999.2	1,000.0	-	-	-	-	-	(0.8)	1.00%	1.14%
	2024	889.8	858.2	-	800.0	800.0	-	-	-	58.2	4.90%	0.87%
	2025	496.6	497.6	-	500.0	-	500.0	-	-	(2.4)	0.13%	0.32%
	2026	498.5	498.8	-	500.0	-	500.0	-	-	(1.2)	1.00%	1.28%
Bonds	2026	79.4	79.5	-	80.0	-	80.0	-	-	(0.5)	1.60%	1.80%
	2027	1,013.7	984.8	-	1,000.0	-	-	1,000.0	-	(15.2)	1.38%	1.90%
	2027	-	99.8	-	100.0	-	-	100.0	-	(0.2)	3.44%	3.00%
	2028	763.7	705.6	-	750.0	-	-	-	750.0	(44.4)	1.00%	1.28%
	2029	596.7	597.2	-	600.0	-	-	-	-	600.0 (2.8)	0.38%	1.71%
	2030	496.1	403.8	-	500.0	-	-	-	-	500.0 (96.2)	0.38%	0.12%
	2032	470.4	353.6	-	500.0	-	-	-	-	500.0 (146.4)	0.75%	1.19%
EIB	2044	854.0	1,475.0	20.5	1,613.0	24.6	47.7	58.5	92.1	92.1 1,298.0 (158.5)	1.74%	0.97%
Terna's borrowing	2024	200.0	300.0	-	300.0	300.0	-	-	-	-	0.00%	0.49%
<b>Total fixed rate</b>		<b>8,979.5</b>	<b>8,512.7</b>	<b>1,680.1</b>	<b>7,243.0</b>	<b>1,124.6</b>	<b>547.7</b>	<b>638.5</b>	<b>1,192.1</b>	<b>842.1 2,898.0 (410.4)</b>		
EIB	2041	1,062.9	950.2	113.9	836.4	115.3	115.3	115.3	115.3	259.9 (0.1)	1.25%	0.76%
Terna's borrowing	2023	400.0	799.1	100.0	700.0	100.0	600.0	-	-	- (0.9)	1.47%	1.56%
<b>Total variable rate</b>		<b>1,462.9</b>	<b>1,749.3</b>	<b>213.9</b>	<b>1,536.4</b>	<b>215.3</b>	<b>715.3</b>	<b>115.3</b>	<b>115.3</b>	<b>259.9 (1.0)</b>		
<b>TOTAL</b>		<b>10,442.4</b>	<b>10,262.0</b>	<b>1,894.0</b>	<b>8,779.4</b>	<b>1,339.9</b>	<b>1,263.0</b>	<b>753.8</b>	<b>1,307.4</b>	<b>957.4 3,157.9 (411.4)</b>		

\* The balance does not include prepaid fees of €3.7 million at 31 December 2022 and of €4.3 million at 31 December 2021.

\*\* Includes portions measured at amortised cost and fair value adjustments at 31 December 2022.

(€m)

	31 DECEMBER 2021	31 DECEMBER 2022	PORTION FALLING DUE WITHIN 12 MONTHS	PORTION FALLING DUE AFTER 12 MONTHS
Finance leases	0.9	1.9	1.9	-
Operating leases	36.0	65.8	14.2	51.6
<b>TOTAL</b>	<b>36.9</b>	<b>67.7</b>	<b>16.1</b>	<b>51.6</b>

At 31 December 2022, payments on operating leases recognised in application of IFRS 16 amount to €7.3 million.

The total value of the Terna Group's borrowings at 31 December 2022 is €10,262.0 million (€1,894.0 million falling due within 12 months and €8,779.4 million falling due after 12 months net of portions measured at amortised cost and fair value adjustments), of which €3,157.9 million maturing after five years.

### Non-current financial liabilities – €247.2 million

(€m)

	31 DECEMBER 2022	31 DECEMBER 2021	CHANGE
Cash flow hedges	-	83.7	(83.7)
Fair value hedges	247.2	-	247.2
<b>TOTAL</b>	<b>247.2</b>	<b>83.7</b>	<b>163.5</b>

Non-current financial liabilities, amounting to €247.2 million, reflect the fair value of fair value hedges at 31 December 2022.

Fair value was measured by discounting the expected cash flows using the market yield curve at the reporting date. The increase of €163.5 million, compared with 31 December 2021 reflects the change in the market interest rate curve and the change in the notional value of the derivatives portfolio.

### Short-term borrowings – €444.1 million

"Short-term borrowings", amounting to €444.1 million at 31 December 2022, have decreased €1,502.9 million compared with the previous year, essentially reflecting the repayment of short-term loans disbursed to the Parent Company.

### Current financial liabilities – €44.9 million

Current financial liabilities at 31 December 2022 include the value of net interest expense accrued on financial instruments and not yet paid. This item is down €0.9 million compared with 31 december 2021.

(€m)

	31 DECEMBER 2022	31 DECEMBER 2021	CHANGE
Fair value hedges	0.8	-	0.8
<b>DEFERRED LIABILITIES ON:</b>			
Hedging derivatives	0.6	4.9	(4.3)
Bond issues	33.5	39.9	(6.4)
Borrowings	10	1	9.0
<b>TOTAL</b>	<b>44.9</b>	<b>45.8</b>	<b>(0.9)</b>

**Net debt**

Pursuant to the CONSOB Communication of 28 July 2006 and in compliance with Recommendation ESMA no. 32-382-1138 del 2021, the Group's net debt is as follows:

	(€m)
	<b>31 DECEMBER 2022</b>
A. Cash	627.2
B. Cash equivalents*	1,527.9
C. Other current financial assets**	251.6
<b>D. Liquidity (A) + (B) + (C)</b>	<b>2,406.7</b>
E. Current financial liabilities (including debt instruments, but excluding the current portion of non-current financial liabilities)	444.9
F. Current portion of non-current debt***	1,949.7
<b>G. Current debt (E+F)</b>	<b>2,394.6</b>
<b>H. Net current debt (G) - (D)</b>	<b>(12.1)</b>
I. Non-current financial liabilities (excluding the current portion and debt instruments)****	3,585.0
J. Debt instruments*****	5,003.4
<b>K. Non-current net debt (I) + (J)</b>	<b>8,588.4</b>
<b>L. Net debt (K) + (H)</b>	<b>8,576.3</b>

\* Corresponds with the item "Cash and cash equivalents" relating to the value of short-term deposits.

\*\* Corresponds with the item "Current financial assets" relating to the value of government securities (€246.8 million) and the value of the related accrued interest income (€4.8 million).

\*\*\* Corresponds with the item "Current portion of long-term borrowings" relating to the short-term portion of long-term borrowings (€234.4 million), the short-term portion of bond issues (€1,658.8 million) and the short-term portion of lease liabilities (€16.1 million), "Current financial liabilities" relating to the value of accrued expenses (€44.1 million) and the item, "Current financial assets" relating to the value of derivative assets (down €3.7 million).

\*\*\*\* Corresponds with the item "Long-term borrowings" relating to the value of borrowings (€3,286.1 million) and the long-term portion of lease liabilities (€51.7 million) and the item, "Non-current financial liabilities" relating to the value of derivative liabilities (€247.2 million).

\*\*\*\*\* Corresponds with the item "Long-term borrowings" relating to the value of bond issues (€5,078.9 million) and the item, "Non-current financial assets" relating to the value of derivative assets (down €75.5 million).

**Default risk and debt covenants**

This risk is associated with the possibility that the loan agreements or bond terms and conditions to which the Group is a party may contain provisions that, if certain events occur, authorise counterparties to call in such loans immediately, thereby generating liquidity risk.

Certain long-term loans obtained by the Parent Company, Terna S.p.A., contain covenants that are typical of international practice. The principal covenants relate to:

- the Company's bond issues, which consist of an €800.0 million issue in 2004 and nine issues as part of its EMTN Programme (the "€9.000.000.000 Euro Medium Term Notes Programme");
- bank borrowings, consisting of revolving lines of credit and bilateral term loans ("bank debt");
- a series of loans to the Company from the European Investment Bank (EIB), amounting to a total of €2.6 billion.

The main covenants relating to bond issues and the EMTN Programme involve clauses regarding i) "negative pledges", on the basis of which the Issuer or its Relevant Subsidiaries undertake not to create or maintain mortgages, pledges or other encumbrances on their assets or revenue to guarantee specific financial debt, unless the encumbrances are extended on an equal or pro rata basis to the bond issues in question (with the exception of certain "permitted guarantees"); ii) "pari passu", on the basis of which the securities constitute a direct, unconditional and unsecured obligation by the Issuer,

ranking equally among them and with at least the same level of seniority as other present and future unsecured and non-subordinated borrowings of the Issuer; iii) “event of default”, on the basis of which if certain predetermined events occur (e.g., failure to make a repayment, the liquidation of the Issuer, the breach of contractual obligations, a cross-default, etc.) a situation of default is established and the loan is immediately called in.

The main covenants relating to bank borrowings involve clauses related to: i) negative pledges, on the basis of which the Issuer or the Relevant Subsidiaries undertake not to create or maintain guarantees on their assets to secure borrowings, with the exception of “permitted guarantees”; ii) *pari passu* on the basis of which the Borrower’s payment obligations in relation to the loan agreements in question are not subordinated to any obligation related to other unsecured and non-subordinated creditors, without prejudice to privileges under the law; iii) “event of default”, on the basis of which if certain predetermined events occur (e.g. failure to make a repayment, serious inaccuracies in documents and/or declarations, insolvency, business discontinuation, substantially prejudicial effects, the breach of contractual obligations, including *pari passu* conditions, a cross-default, etc.) a situation of default is established and the loan is immediately called in; iv) “ratings”, which involve accelerated repayment should the rating fall below investment grade for the majority of rating agencies or should the Borrower cease to be rated by at least one agency.

The main covenants related to the EIB loans involve clauses related to i) negative pledges, on the basis of which the Company cannot create personal or real guarantees or, more generally, encumbrances, with the exception of encumbrances granted in relation to borrowings below given amounts and under contractually specified circumstances; ii) the provision to the Bank, at its request, of new guarantees should the ratings assigned by the rating agencies fall below the level indicated in the respective contracts agreed or should the Company cease to be rated by the rating agencies; iii) *pari passu*, on the basis of which the Company ensures that payment obligations rank equally with those related to all other unsecured, non-subordinated creditors, without prejudice to privileges under the law; iv) cases of contract termination/application of the call provision/withdrawal (e.g. failure to make a repayment, serious inaccuracies in documents and/or declarations, insolvency, events that have a negative impact on financial commitments made by the Company, extraordinary administration, liquidation, substantial prejudicial changes, the breach of contractual commitments, etc.); v) accelerated loan payment following the occurrence of given events (e.g. change of control over the Company, loss of the concession, extraordinary corporate events, etc.).

## 26. Employee benefits – €48.4 million

The Group provides its employees with benefits during their period of employment (loyalty bonuses), on termination of employment (TFR, additional months’ pay and payment in lieu of notice) and after termination in the form of post-employment benefits (ASEM health cover).

Loyalty bonuses are payable to the Group’s employees and senior managers once certain requirements have been met regarding length of service (on completing 25 and 35 years of service).

Termination benefits (*TFR*) are payable to all employees, whilst employees hired by 30 June 1996 receive energy discounts, senior managers recruited or appointed before 28 February 1999 receive payment in lieu of notice and employees (blue-collar workers, office staff and middle managers) employed prior to 24 July 2001 are due additional months’ pay on termination.

Post-employment benefits consist of a form of supplementary health cover in addition to that provided by the Italian national health service, as provided for in the national collective contract for industrial managers (the ASEM).

The following table shows the composition of provisions for TFR and other employee benefits and movements during the year ended 31 December 2022:

(€m)

	31 DECEMBER 2021	PROVISIONS	INTEREST COST	USES AND OTHER MOVEMENTS	ACTUARIAL GAINS/(LOSSES)	31 DECEMBER 2022
<b>Benefits during the period of employment</b>						
Loyalty bonuses and other incentives	5.0	(0.7)	-	(0.3)	-	4.0
<b>Total</b>	<b>5.0</b>	<b>(0.7)</b>	<b>-</b>	<b>(0.3)</b>	<b>-</b>	<b>4.0</b>
<b>Termination benefits</b>						
Deferred compensation benefits (TFR)	35.6	-	0.2	(2.8)	(3.8)	29.2
Energy discounts	3.2	-	-	(0.4)	(0.4)	2.4
Additional months' pay	5.6	0.2	-	(1.4)	(0.3)	4.1
Payment in lieu of notice and other similar	0.5	-	-	0.1	-	0.6
<b>Total</b>	<b>44.9</b>	<b>0.2</b>	<b>0.2</b>	<b>(4.5)</b>	<b>(4.5)</b>	<b>36.3</b>
<b>Post-employment benefits</b>						
ASEM	10.9	0.5	0.1	(0.5)	(2.9)	8.1
<b>Total</b>	<b>10.9</b>	<b>0.5</b>	<b>0.1</b>	<b>(0.5)</b>	<b>(2.9)</b>	<b>8.1</b>
<b>TOTAL</b>	<b>60.8</b>	<b>-</b>	<b>0.3</b>	<b>(5.3)</b>	<b>(7.4)</b>	<b>48.4</b>

This item, amounting to €48.4 million at 31 December 2022, is down €12.4 million compared with the previous year. This is primarily due to actuarial losses (down €7.4 million, broadly due to the change in the discount rate used) and to net uses and other movements (down €5.3 million, above all for TFR and the additional months' pay), relating essentially to employees who have opted to take part in the generational turnover plan launched in 2019.

The following table shows the current service cost and interest income and expense.

(€m)

	LOYALTY BONUSES AND OTHER INCENTIVES	TFR	ADDITIONAL MONTHS' PAY	ASEM	TOTAL
Net impact recognised in profit or loss					
- current service cost	(0.7)	-	0.2	0.5	-
- curtailment (revenue) and other costs	-	-	(0.8)	-	(0.8)
- interest income and expense	-	0.2	-	0.1	0.3
<b>TOTAL RECOGNISED IN PROFIT OR LOSS</b>	<b>(0.7)</b>	<b>0.2</b>	<b>(0.6)</b>	<b>0.6</b>	<b>(0.5)</b>

The revaluation of the net liability for employee benefits is shown in the following table, which provides details of the type of actuarial gain or loss recognised in other comprehensive income.

(€m)

	TFR	ADDITIONAL MONTHS' PAY	ENERGY DISCOUNTS	ASEM	TOTAL
Actuarial gain/losses					
- based on past experience	1.5	0.1	0.1	2.1	3.8
- due to changes in discount rate	(5.3)	(0.4)	(0.5)	(5.0)	(11.2)
<b>TOTAL IMPACT ON COMPREHENSIVE INCOME</b>	<b>(3.8)</b>	<b>(0.3)</b>	<b>(0.4)</b>	<b>(2.9)</b>	<b>(7.4)</b>

Finally, the following tables show the main actuarial assumptions applied, a sensitivity analysis of movements in the assumptions and the payment schedule for the plan. In line with 2021, the interest rate used to determine the present value of the obligation was calculated on the basis of the yield on the Iboxx Eurozone Corporates AA index at 31 December 2022, matching the duration of the relevant group of plan participants.

(€m)

	LOYALTY BONUSES AND OTHER INCENTIVES	TFR	ADDITIONAL MONTHS' PAY	PAYMENT IN LIEU OF NOTICE AND OTHER SIMILAR	ENERGY DISCOUNTS	ASEM
Discount rate	3.68%	3.77%	3.57%	-	3.63%	3.77%
Inflation rate	2.30%	2.30%	-	1.75%	-	2.70%
Duration (in years)	15.46-18.09	6.99-17.22	1.00-6.66	-	3.48-8.18	15.99-19.38

(€m)

	LOYALTY BONUSES AND OTHER INCENTIVES	TFR	ADDITIONAL MONTHS' PAY	PAYMENT IN LIEU OF NOTICE AND OTHER SIMILAR	ENERGY DISCOUNTS	ASEM	TOTAL
Discount rate +0.25%	3.4	10.5	3.9	-	2.4	10.5	30.7
Discount rate -0.25%	3.4	10.9	3.9	-	2.5	11.2	31.9
Inflation rate +0.25%	3.5	10.9	n/a	n/a	n/a	n/a	14.4
Inflation rate -0.25%	3.4	10.6	n/a	n/a	n/a	n/a	14.0
Annual rate of increase in health costs +3%	n/a	n/a	n/a	n/a	n/a	10.8	10.8
Annual rate of increase in health costs -3%	n/a	n/a	n/a	n/a	n/a	11.0	11.0

(€m)

	LOYALTY BONUSES AND OTHER INCENTIVES	TFR	ADDITIONAL MONTHS' PAY	PAYMENT IN LIEU OF NOTICE AND OTHER SIMILAR	ENERGY DISCOUNTS	ASEM	TOTALE
By the end of 2023	0.3	1.1	1.7	-	0.7	0.7	4.5
By the end of 2024	0.2	0.9	0.5	-	0.2	0.7	2.5
By the end of 2025	0.4	1.4	0.4	-	0.2	0.7	3.1
By the end of 2026	0.3	1.2	0.4	-	0.2	0.9	3.0
By the end of 2027	0.2	0.4	0.6	-	0.1	0.9	2.2
After 5 years	2.6	24.2	0.5	0.6	1.0	4.2	33.1
<b>TOTAL</b>	<b>4.0</b>	<b>29.2</b>	<b>4.1</b>	<b>0.6</b>	<b>2.4</b>	<b>8.1</b>	<b>48.4</b>

## 27. Provisions for risk and charges – €140.8 million

(€m)

	PROVISIONS FOR LITIGATION AND DISPUTES	PROVISIONS FOR SUNDRY RISKS AND CHARGES	PROVISIONS FOR EARLY RETIREMENT INCENTIVES	TOTAL
<b>Amount at 31 December 2021</b>	<b>17.9</b>	<b>94.3</b>	<b>22.0</b>	<b>134.2</b>
Provisions	3.6	36.3	11.8	51.7
Uses and other movements	(7.5)	(30.7)	(6.9)	(45.1)
<b>Amount at 31 December 2022</b>	<b>14.0</b>	<b>99.9</b>	<b>26.9</b>	<b>140.8</b>

**Provisions for litigation and disputes – €14.0 million**

These provisions, set aside to cover outstanding liabilities that, at the end of the year, could result from court judgements and out-of-court settlements regarding the activities of Group companies, have been assessed partly on the basis of recommendations from internal and external legal advisors. The balance at 31 December 2022, amounting to €14.0 million, primarily regards disputes involving the Parent Company in relation to the payment of damages relating to operation and maintenance, requests for compensation for easements and labour and social security disputes. This is down €3.9 million compared with the previous year as a result of lower net provisions during the year.

**Provisions for sundry risks and charges – €99.9 million**

These provisions amount to €99.9 million at 31 December 2022 and essentially regard liabilities associated with urban and environmental restoration projects, regulation of the quality of the electricity service, staff incentive plans, right-of-way fees and tax-related aspects.

These provisions are up by a net €5.6 million, compared with the previous year reflecting:

- net provisions of €4.4 million for urban and environmental restoration schemes;
- a net reduction of €2.3 million relating to staff incentive plans;
- a net reduction of €2.0 million in provisions linked to regulation of the quality of the electricity service (the mitigation and sharing mechanism introduced by ARERA Resolution 653/2015/R/eel) which, after provisions for estimated penalties linked to outages during the year, reflects payments to distribution companies and releases following final determination of the penalties due to previous years;
- net uses of €0.7 million related to tax liabilities.

**Provisions for early retirement incentives – €26.9 million**

Provisions for early retirement incentives reflects the estimated extraordinary expenses to be incurred in relation to the cost of the scheme for the year, linked to the early retirement of Group employees who have reached pensionable age and where the Group has an obligation. This item has increased by a net €4.9 million, reflecting payments in coming years in relation to the existing plan for generational turnover.

**28. Other non-current liabilities – €971.4 million**

This item, amounting to €971.4 million 31 December 2022, regards accrued grants related to assets receivable by the Parent Company (€69.4 million), in addition to payments on account received in relation to construction of the private Italy-Montenegro, Italy-France and Italy-Austria Interconnectors (totalling €449.9 million).

This item also includes the guarantee deposits received from operators participating in the capacity market in accordance with Resolution 98/2011/R/eel (€155.6 million), in addition to the Interconnector Guarantee Fund set up by Terna S.p.A. following the issue of the 2016 Stability Law (€146.7 million), in order to fund investment in interconnections by art. 32 of Law 99/09.

The increase in this item compared with the previous year, amounting to €86.6 million, essentially reflects the increase in the Interconnector Guarantee Fund (up €19.4 million) and in payments on account received from the entities financing the private Italy-Austria (up €0.2 million), Italy-France (up €39.8 million) and Italy-Montenegro (up €2.4 million) Interconnectors, after a reduction in deferred income relating to grants related to assets receivable by the Parent Company (down €5.1 million) and an increase in guarantee deposits received from operators participating in the capacity market in accordance with Resolution 98/2011/R/eel, as amended, after definition of each party's committed capacity (up €38.1 million).



**29. Current liabilities**

(€m)

	31 DECEMBER 2022	31 DECEMBER 2021	CHANGE
Short-term borrowings*	444.1	1,947.0	(1,502.9)
Current portion of long-term borrowings*	1,909.3	1,640.0	269.3
Trade payables	3,687.7	3,275.6	412.1
Tax liabilities	43.8	28.1	15.7
Current financial liabilities*	44.9	45.8	(0.9)
Other current liabilities	669.9	453.4	216.5
<b>TOTAL</b>	<b>6,799.7</b>	<b>7,389.9</b>	<b>(590.2)</b>

\* Information on these items is provided in note 25, "Borrowings and financial liabilities".

**Trade payables – €3,687.7 million**

(€m)

	31 DECEMBER 2022	31 DECEMBER 2021	CHANGE
Suppliers:			
- Energy-related payables	2,649.5	2,353.5	296.0
- Non-energy-related payables	982.7	883.8	98.9
Amounts due to associates	10.1	9.4	0.7
Payables resulting from contract work in progress	45.4	28.9	16.5
<b>TOTAL</b>	<b>3,687.7</b>	<b>3,275.6</b>	<b>412.1</b>

**Suppliers****Energy-related payables**

The increase of €296 million in this item compared with the end of 2021 essentially reflects energy-related pass-through payables (€254.8 million). This is primarily due to:

- an increase in payables linked to plants that are essential for the security of the electricity system – UESS (€446.2 million) reflecting a reduction in amounts collected to cover the costs awarded to owners of the plants by ARERA<sup>8</sup>;
- amounts payable in the form of capacity payments (€207.4 million) effective from 1 January 2022;
- an increase in payables due to imbalances (€66 million);
- increased net payables related to virtual import services (€41.8 million) resulting from the settlement of amounts due to the backers of interconnectors, applied on a transitional basis until the final procedure for settlements takes effect through the shippers to be selected by Terna<sup>9</sup>;

partly offset by:

- a reduction in payables linked to DSM transactions and services (€507.2 million) due to reduced selections for grid constraints<sup>10</sup> throughout most of the year.

<sup>8</sup> ARERA ordered payments to the owners of essential plants in the following resolutions: 42-43-67-76-92-131-172-214-223-237-267-319-362-656-657-658-659-660-661-662-663-664-665-666-667/2022.

<sup>9</sup> ARERA revised the method for settling amounts payable for virtual imports in resolutions 49/2022 and 93/2022.

<sup>10</sup> In resolutions 597/2021 and 132/2022, ARERA has established an output-based incentive scheme to be applied to Terna with the aim of cutting dispatching costs.

### Non-energy related payables

The exposure to suppliers regards invoices received and to be received for contract work, services and purchases of materials and equipment.

The balance at 31 December 2022 (€883.8 million) is up €98.9 million on the previous year, largely due to increased capital expenditure towards the end of the year (primarily by the subsidiary, Terna Rete Italia S.p.A., up €47.1 million and the Parent Company, Terna Sp.A., up €36.8 million), and an increase in payables at the Tamini Group (up €11.1 million).

### Amounts due to associates

This item, amounting to €10.1 million, is up €0.7 million on the previous year, and regards amounts payable to the associate CESI S.p.A., for services provided primarily to the Parent Company (€2.6 million) and to the subsidiary Terna Rete Italia S.p.A. (€7.4 million), relating to electro technical studies and research.

### Payables resulting from contract work in progress

Payables resulting from contract work in progress, amounting to €45.4 million at 31 December 2022, are up €16.5 million on the figure for 31 December 2021 (€28.9 million), essentially reflecting contract work in progress at Brugg Cables Group (up €8.9 million) and Tamini Group (up €7.8 million).

This item breaks down as follows.

(€m)

	PREPAYMENTS	VALUE OF CONTRACT	BALANCE AT 31 DECEMBER 2022	PREPAYMENTS	VALUE OF CONTRACT	BALANCE AT 31 DECEMBER 2021
Contract work in progress	(183.8)	138.4	(45.4)	(166.2)	137.3	(28.9)

The carrying amount of trade payables broadly approximates to fair value.

The commitments assumed by the Group towards suppliers amount to approximately €3,247.2 million and regard purchase commitments linked to the normal “operating cycle” projected for the period 2023-2027.

### Tax liabilities – €43.8 million

At 31 December 2022, this item amounts to €43.8 million compared with €28.1 million at 31 December 2021, reflecting an increase in tax payable for the period after payments on account paid during the year (essentially due to the increase in pre-tax profit).

### Other current liabilities – €669.9 million

(€m)

	31 DECEMBER 2022	31 DECEMBER 2021	CHANGE
Prepayments	152.0	91.4	60.6
Other tax liabilities	99.9	38.5	61.4
Social security payables	28.9	26.0	2.9
Amounts due to personnel	54.4	53.5	0.9
Other amounts due to third parties	334.7	244.0	90.7
<b>TOTAL</b>	<b>669.9</b>	<b>453.4</b>	<b>216.5</b>

### Prepayments

This item (€152.0 million) regards grants related to assets collected by the Group (€147.2 million attributable to the Parent Company, €2.6 million to Rete S.r.l. and €2.2 million to Terna Rete Italia S.p.A.) to fund the construction of non-current assets in progress at 31 December 2022.

Compared with the balance at 31 December 2021 (€91.4 million) this item is up €60.6 million, essentially due to the net impact of grants deducted directly from the carrying amount of the related assets, totalling €15.9 million, and new prepayments received from third parties.

### Other tax liabilities

Other tax liabilities, amounting to €99.9 million, are up €61.4 million compared with the previous year. This primarily reflects the increase in VAT payable by the Group (up €62.8 million).

### Social security payables

Social security payables, essentially relating to contributions payable to INPS (the National Institute of Social Security) by the Parent Company and the subsidiary, Terna Rete Italia S.p.A., amount to €28.9 million. The figure is up €2.9 million compared with the previous year, broadly due to increased contributions payable (up €3.1 million). This item also included the amount payable to the *Fondo Previdenza Elettrici – F.P.E.* (the Electricity Industry Pension Fund), amounting to €2.3 million (€2.6 million at 31 December 2021).

### Amounts due to personnel

Amounts due to personnel, amounting to €54.4 million, are up €0.9 million compared with the previous year, and essentially regard the Parent Company and the subsidiary Terna Rete Italia S.p.A.. They primarily relate to:

- incentives payable in the subsequent year (€33.3 million);
- amounts due to employees in the form of accrued and unused annual leave and bank holiday entitlements (€17.0 million);
- benefits payable to personnel leaving the Company by 31 December 2021 (€0.7 million).

### Other payables due to third parties

Other payables due to third parties, amounting to €334.7 million, primarily regard guarantee deposits (€224.3 million) received from electricity market operators to guarantee their contractual obligations under dispatching and virtual interconnection contracts. This item also includes the potential liabilities attributable to Brugg Cables Group, arising from the Purchase Price Allocation (€33.0 million, covered by an insurance policy) and resulting from ongoing litigation regarding a number of contracts with Colombian counterparties, and deferred income (€29.1 million, primarily attributable to the Group's non-regulated business).

This item is up by a total of €90.7 million, essentially due to an increase in guarantee deposits collected during the year, totalling €53.9 million, an increase in coupon interest payable to the holders of hybrid instruments (up €21.1 million), an increase in dividends payable (up €7.4 million), and an increase in accrued expenses (up €9.3 million).

### 30. Discontinued operations and assets held for sale

The items, “Discontinued operations and assets held for sale” and “Liabilities related to discontinued operations and assets held for sale” included the assets and liabilities that make up the net assets attributable to the companies included in the agreement signed by the Terna Group and CDPQ, a global investment group, on 29 April 2022 for the sale of all the Group’s power line assets in Brazil, Peru and Uruguay.

On 7 November 2022, the first transaction closing for the Brazilian companies, SPE Santa Maria Transmissora de Energia S.A., SPE Santa Lucia Transmissora de Energia S.A. and SPE Transmissora de Energia Linha Verde II S.A., owners of three power lines in Brazil, totalling 670 km, was completed. On 22 December 2022, the transaction closing for Difebal S.A., the owner of a power line in Uruguay, totalling 214 km, was completed. The sale of the other assets in Brazil and Peru is due to take place in phases, following fulfilment of the conditions provided for in the agreement.

Following the sale of the Brazilian companies, SPE Santa Lucia Transmissora de Energia S.A., SPE Santa Maria Transmissora de Energia S.A. and SPE Transmissora de Energia Linha Verde II S.A. and of the Uruguayan company, Difebal S.A., the item includes the reclassification, as required by IFRS 5, of the net assets attributable to the Brazilian company, SPE Transmissora de Energia Linha Verde I S.A., and the Peruvian company, Terna Perú S.A.C..

(€m)

	31 DECEMBER 2022	31 DECEMBER 2021	CHANGE
<b>ASSETS</b>			
Property, plant and equipment	1.3	2.3	(1.0)
Intangible assets	20.2	16.8	3.4
Deferred tax assets	2.9	5.7	(2.8)
Non-current financial assets	23.3	187.2	(163.9)
Other non-current assets	0.2	3.1	(2.9)
Inventories	26.9	19.3	7.6
Trade receivables	0.3	83.6	(83.3)
Current financial assets	6.0	20.6	(14.6)
Cash and cash equivalents	11.9	39.4	(27.5)
Income tax assets	0.4	2.9	(2.5)
Other current assets	14.4	11.7	2.7
<b>Total assets</b>	<b>107.8</b>	<b>392.6</b>	<b>(284.8)</b>
Accumulated impairment recognised on remeasurement of fair value less costs to sell	(37.1)	(17.1)	(20.0)
<b>TOTAL ASSETS HELD FOR SALE</b>	<b>70.7</b>	<b>375.5</b>	<b>(304.8)</b>
<b>LIABILITIES</b>			
Long-term borrowings	-	179.2	(179.2)
Deferred tax liabilities	1.6	32.1	(30.5)
Non-current financial liabilities	-	1.4	(1.4)
Current portion of long-term borrowings	-	40.8	(40.8)
Trade payables	7.5	2.5	5.0
Tax liabilities	0.4	0.8	(0.4)
Current financial liabilities	-	0.4	(0.4)
Other current liabilities	0.1	0.6	(0.5)
<b>TOTAL LIABILITIES RELATED TO ASSETS HELD FOR SALE</b>	<b>9.6</b>	<b>257.8</b>	<b>(248.2)</b>
<b>TOTAL NET ASSETS HELD FOR SALE</b>	<b>61.1</b>	<b>117.7</b>	<b>(56.6)</b>
<i>Amounts included in OCI:</i>			
Foreign currency translation reserve	0.9	(27.4)	28.3
CFH reserve	-	(1.0)	1.0
<b>Total reserves related to assets classified as held for sale</b>	<b>0.9</b>	<b>(28.4)</b>	<b>29.3</b>

Net assets held for sale, amounting to €61.1 million at 31 December 2022, primarily regard investment in the infrastructure operated under concession in Brazil, related to the subsidiary, SPE Transmissora de Energia Linha Verde I S.A. The item is down €56.6 million compared with 31 December 2021. This essentially reflects the sale of the Brazilian companies, SPE Santa Lucia Transmissora de Energia S.A. (€45.4 million), SPE Santa Maria Transmissora de Energia S.A. (€13.8 million) and SPE Transmissora de Energia Linha Verde II S.A (€11.9 million) and of the Uruguayan company, Difebal S.A (€25.4 million), partly offset by the increase in the net assets of the subsidiary, SPE Transmissora de Energia Linha Verde I S.A. (€48.9 million).

### Cash flow

The following statement of cash flows shows cash flows attributable to the Latin American assets held for sale:

(€m)

	CASH FLOW 2022	CASH FLOW 2021
Operating cash flow	(27.0)	(12.2)
Cash flow for investing activities	(3.3)	(31.4)
Cash flow from financing activities	2.8	13.9
<b>Cash flow for the year attributable to discontinued operations and assets held for sale</b>	<b>(27.5)</b>	<b>(29.8)</b>

Operating cash outflow attributable to the Latin American assets amounts to €27.0 million, primarily reflecting the the sale of the Brazilian companies, SPE Santa Lucia Transmissora de Energia S.A., SPE Santa Maria Transmissora de Energia S.A. and SPE Transmissora de Energia Linha Verde II S.A and of the Uruguayan company, Difebal S.A , and the adjustment to the value of the net assets held for sale recognised in application of IFRS 5.

Cash flow for investing activities, amounting to €3.3 million, primarily relates to infrastructure operated under concession in Peru.

Cash flow from financing activities (€2.8 million) essentially reflects the change in the debt of the companies being sold, after repayment of the loan attributable to the subsidiary, Linha Verde I.

## E. Commitments and risks

### Risk management

In the course of its operations, the Terna Group is exposed to different financial risks: market risk, liquidity risk and credit risk. This section provides information regarding the Terna Group's exposure to all the above risks, along with a presentation of the objectives, policies and processes for managing those risks and the methods used to assess them, with further quantitative disclosures concerning the separate financial statements for 2022.

The Group's risk management policies seek to identify and analyse the risks that Group companies are exposed to, establishing appropriate limits and controls and monitoring the risks and compliance with such limits. These policies and the related systems are reviewed on a regular basis, in order to take account of any changes in market conditions or in the companies' operations.

The Terna Group's exposure to the aforementioned risks is substantially represented by the exposure of the Parent Company.

As a part of the financial risk management policies approved by the Board of Directors, Terna has established the responsibilities and operating procedures for financial risk management, specifically as concerns the instruments to be used and the precise operating limits to apply in managing them.

The main financial statement items exposed to the above risks are shown below.

(€m)

	31 DECEMBER 2022			31 DECEMBER 2021		
	AMORTISED COST	FAIR VALUE	TOTAL	AMORTISED COST	FAIR VALUE	TOTAL
<b>Assets</b>						
Derivative financial instruments	-	75.7	75.7	-	1.6	1.6
Cash on hand and government securities	2,155.1	366.5	2,521.6	1,566.8	981.5	2,548.3
Trade receivables	2,358.3	-	2,358.3	2,777.4	-	2,777.4
<b>TOTAL</b>	<b>4,513.4</b>	<b>442.2</b>	<b>4,995.6</b>	<b>4,344.2</b>	<b>983.1</b>	<b>5,327.3</b>

(€m)

	31 DECEMBER 2022			31 DECEMBER 2021		
	AMORTISED COST	FAIR VALUE	TOTAL	AMORTISED COST	FAIR VALUE	TOTAL
<b>Liabilities</b>						
Borrowings	10,326.0	-	10,326.0	10,475.0	-	10,475.0
Derivative financial instruments	-	247.9	247.9	-	83.7	83.7
Trade payables	3,687.7	-	3,687.7	3,275.6	-	3,275.6
<b>TOTAL</b>	<b>14,013.7</b>	<b>247.9</b>	<b>14,261.6</b>	<b>13,750.6</b>	<b>83.7</b>	<b>13,834.3</b>

### Market risk

Market risk is the risk that the fair value or future cash flows of a financial instrument may fluctuate as a result of changes in financial market conditions. Market risk includes three types of risk: exchange rate risk, interest rate risk and inflation risk.

Risk management must be performed with the objective of minimising the related risks by selecting counterparties and instruments compatible with the Company's Risk Management Policy. Speculative activity is not form part of the Parent Company's activities.

The Terna Group seeks to adopt a dynamic approach to financial risk management. This approach is characterised by risk aversion, aimed at minimising risk through continuous monitoring of financial markets in order to obtain new financing and conclude hedging transactions in favourable market conditions. The dynamic approach enables the Group to intervene in order to improve existing hedges should there be a change in market conditions or changes in the hedged item, making the hedges inappropriate or excessively costly.

The fair value of financial instruments is determined in accordance with the fair value hierarchy envisaged under IFRS 7 (Level 2), by means of appropriate valuation techniques for each category of financial instrument, using market data at the closing date (such as interest rates, exchange rates and volatility) and discounting projected cash flows on the basis of the market yield curve at the reporting date.

## Interest rate risk

Interest rate risk is represented by the uncertainty associated with interest rate fluctuations. This is the risk that a change in market interest rates may produce effects on the fair value or future cash flows of financial instruments.

In the course of its operations, the Group is exposed to the risk of fluctuations in interest rates. Its main source of interest rate risk is associated with its borrowings and the related hedges in the form of derivative instruments that generate financial expenses. The borrowing strategy focuses on long-term borrowings, whose term reflects the useful life of the Group's assets. It pursues an interest rate risk hedging policy that aims to guarantee that percentage of debt represented by fixed rate liabilities is at least 40%, as provided for in the relevant policies. At the end of 2022, 87% of the Group's is fixed rate.

At 31 December 2022, interest rate risk is hedged by fair value hedges and cash flow hedges, which hedge the risk connected with movements in interest rates relating to borrowings.

Below are the notional amounts and fair values of the derivative financial instruments entered into by the Terna Group:

(€m)

	31 DECEMBER 2022		31 DECEMBER 2021		CHANGE	
	NOTIONAL	FAIR VALUE	NOTIONAL	FAIR VALUE	NOTIONAL	FAIR VALUE
Fair value hedges	1,973.5	(247.9)	1,700.0	1.6	273.5	(249.5)
Cash flow hedges	1,996.3	75.7	3,241.0	(83.7)	(1,244.7)	159.4

The notional amount of outstanding cash flow hedges at 31 December 2022, amounting to €1,996.3 million, breaks down as follows:

- €100.0 million (fair value gain of €1.9 million) maturing 2023;
- €1,496.3 million (fair value gain of €69.2 million) maturing 2024;
- €200.0 million (fair value gain of €1.8 million) maturing 2025;
- €200.0 million (fair value gain of €2.8 million) maturing 2028.

The notional amount of fair value hedges at 31 December 2022, amounting to €1,973.5 million, breaks down as follows:

- €100.0 million (fair value loss of €0.8 million) maturing 2023;
- €950.0 million (fair value loss of €90.2 million) maturing 2030;
- €343.5 million (fair value loss of €51.9 million) maturing 2039;
- €490.0 million (fair value loss of €88.1 million) maturing 2042;
- €90.0 million (fair value loss of €17.0 million) maturing 2043.

## Sensitivity to interest rate risk

Terna has floating-to-fixed interest rate swaps in place to manage the risk of movements in interest rates. Since the hedging relationship between the derivative and the hedged item is formally documented and the effectiveness of the hedge, as verified initially and periodically over its life, is high, the Company has elected to use hedge accounting to ensure a perfect match between the maturities of the hedge and the hedged item. The aim of hedge accounting is to recognise the effects of the hedges and the hedged items in profit or loss at the same time. Accordingly, in the case of cash flow hedges, changes in the fair value of the derivative must be recognised in “Other comprehensive income” (recognising any ineffective portion immediately through profit or loss) and then recycled through profit or loss in the same period in which the cash flows of the hedged instrument materialise. The characteristics of cash flow hedges mirror those of the underlyings, with the timing of the related cash flows matching the timing of interest payments on the debt, without changes in fair value having any impact on profit or loss.

The following table reports the amounts recognised through profit or loss and in “Other comprehensive income” for positions that are sensitive to changes in interest rates, in addition to the theoretical value of the positions following a positive or negative shift in the yield curve and the differential impact of such changes recognised through profit or loss and in “Other Comprehensive Income”. A hypothetical 10% movement in interest rates with respect to market interest rates at the reporting date was assumed:

	PROFIT OR LOSS			COMPREHENSIVE INCOME		
	CURRENT RATES +10%	CURRENT AMOUNTS	CURRENT RATES -10%	CURRENT RATES +10%	CURRENT AMOUNTS	CURRENT RATES -10%
(€m)						
<b>31 December 2022</b>						
Positions sensitive to interest rate variations (FVHs, bond issues, CFHs)	5.0	<b>3.6</b>	2.1	169.8	<b>159.1</b>	148.3
<i>Hypothetical change</i>	1.4	-	(1.4)	10.7	-	(10.8)
<b>31 December 2021</b>						
Positions sensitive to interest rate variations (FVHs, bond issues, CFHs)	1.4	<b>1.3</b>	1.2	169.5	<b>167.7</b>	165.9
<i>Hypothetical change</i>	0.1	-	(0.1)	1.8	-	(1.8)

Regulators around the world have launched a reform of IBOR (Interbank Offered Rates), which are used as the benchmark for most financial instruments sold throughout the world, with the aim of restoring confidence in the benchmark. The transition from EONIA to ESTER took place in 2022 without any significant impact. The Group is continuing to closely monitor the market and the results produced by the various working groups overseeing the transition to the new benchmark rates for the other maturities (EURIBOR). Management is aware of the associated risks and, for this reason, the Group plans to complete the transition in step with the change in the related legislation. At the same time, all the new financial contracts contain fallback provisions governing the transition period.

## Inflation risk

As regards inflation risk, the rates established by the regulator to provide a return on Terna S.p.A.’s activities are determined so as to cover the allowed costs. Such cost components are updated on an annual basis to take into account the impact of inflation. Having used an inflation-linked bond issue in 2007, the Company has put in place an effective hedge of net income; in fact, any decrease in expected revenue due to a decrease in the inflation rate would be offset by lower financial expenses and viceversa.



## Exchange rate risk

The management of exchange rate risk must aim to protect a company's earnings from the risk of currency fluctuations by keeping a close eye on market movements and constantly monitoring the existing exposures. In managing this risk, Terna from time to time selects hedging instruments with structures and durations matching the Group's exchange rate exposure. The instruments used by Terna are of limited complexity, highly liquid and easy to price, such as forwards and options. Such contracts have a notional amount and maturity date less than or equal to that of the underlying financial liability, or the expected cash flows, so that any change in the fair value and/or estimated cash flows deriving from a rise or fall in the euro against other currencies is fully offset by a corresponding change in the fair value and/or estimated cash flows of the underlying position.

At 31 December 2022, the Group's exposure to the impact of exchange rate risk on its profit or loss is residual and linked to foreign currency cash flows from the subsidiaries, Tamini and Brugg.

## Liquidity risk

Liquidity risk is the risk that the Terna Group might encounter difficulty in discharging its obligations in respect of its financial liabilities and operating cycle. Liquidity risk management seeks to ensure adequate coverage of borrowing requirements by obtaining adequate credit lines and appropriate management of any surplus liquidity. At 31 December 2022, the Terna Group has available short-term credit facilities of approximately €884 million (out of total facilities of approximately €1,010 million), and revolving credit facilities of €3,150 million.

## Credit risk

Credit risk is the risk a customer or one of the counterparties to a transaction in financial instruments could cause a financial loss by failing to discharge an obligation. It is mainly generated by the Group's trade receivables and financial investments.

The credit risk originated by open positions on transactions in derivatives is considered to be marginal since the counterparties, in compliance with the financial risk management policies adopted, are leading international banks with high ratings. Terna provides its services essentially to counterparties considered solvent by the market, and therefore with a high credit standing, and does not have high concentrations of credit risk.

Credit risk management is driven by the provisions of ARERA Resolution 111/06, which, in art. 49, introduced instruments designed to limit the risks related to the insolvency of dispatching customers, both on a preventive basis and in the event of an actual insolvency. In particular, the Resolution establishes three instruments to safeguard the electricity market: a guarantee system (bank guarantees provided by individual dispatching customers, based on their turnover); the option of terminating dispatching contracts (in the event of insolvency or failure to replace enforced guarantees); and, finally, the possibility of recovering uncollected debts, after having taken all other possible collection actions, through a specific fee to be fixed by ARERA.

The following table summarises the exposure to such risk at the reporting date:

	31 DECEMBER 2022	31 DECEMBER 2021	CHANGE
Derivative financial instruments	75.7	1.6	74.1
Cash and cash equivalents	2,155.1	1,566.8	588.3
Trade receivables	2,358.3	2,777.4	(419.1)
<b>TOTAL</b>	<b>4,589.1</b>	<b>4,345.8</b>	<b>243.3</b>

(€m)

The total value of the exposure to credit rate risk at 31 December 2022 is represented by the carrying amount of trade receivables, cash and cash equivalents and cash flows hedges.

The following tables provide qualitative information on trade receivables regarding the geographical distribution and type of customer.

### Geographical distribution

(€m)

	31 DECEMBER 2022	31 DECEMBER 2021
Italy	2,092.6	2,222.5
Euro-area countries	165.9	482.4
Other countries	99.8	72.5
<b>Total</b>	<b>2,358.3</b>	<b>2,777.4</b>

### Customer type

(€m)

	31 DECEMBER 2022	31 DECEMBER 2021
Distributors	472.8	395.8
CSEA	94.3	138.4
Dispatching customers for injections	826.2	755.1
Dispatching customers for withdrawals (non distributors)	682.0	1,288.1
Parties which have signed virtual import contracts and virtual import services (interconnectors and shippers)	11.8	13.8
Sundry receivables	271.2	186.2
<b>Total</b>	<b>2,358.3</b>	<b>2,777.4</b>

The following table breaks down customer receivables by due date, showing any potential impairment.

(€m)

	31 DECEMBER 2022		31 DECEMBER 2021	
	IMPAIRMENT	GROSS	IMPAIRMENT	GROSS
Current	(0.6)	2,103.6	(0.6)	2,701.9
0-30 days past due	(0.6)	28.8	-	30.8
31-120 days past due	(0.4)	56.2	(0.3)	14.0
Over 120 days past due	(35.4)	206.7	(48.7)	80.3
<b>Total</b>	<b>(37.0)</b>	<b>2,395.3</b>	<b>(49.6)</b>	<b>2,827.0</b>

Movements in the allowance for doubtful accounts in the course of the year were as follows.

(€m)

	31 DECEMBER 2022	31 DECEMBER 2021
Balance at 1 January	(49.6)	(52.0)
Release of provisions	14.3	2.8
Impairments for the year	(1.7)	(0.4)
<b>Balance</b>	<b>(37.0)</b>	<b>(49.6)</b>

The value of guarantees received from eligible electricity market operators is illustrated below.

(€m)

	31 DECEMBER 2022	31 DECEMBER 2021
Dispatching - injections	249.7	265.1
Dispatching - withdrawals	1,665.8	1,349.2
Transmission charges due from distributors	329.3	334.3
Virtual imports	269.6	134.3
Capacity market (*)	181.4	129.5
<b>Balance</b>	<b>2,695.8</b>	<b>2,212.4</b>

(\*) Guarantees relating to Capacity Market contracts to be executed from 2023.

In addition, Non-regulated Activities are exposed to "counterparty risk", in particular in relation to the entities with which sales contracts are entered into, in consideration of the credibility and solvency of the parties in question and the impact that their possible insolvency could have on the financial strength of the business. Counterparty risk is mitigated by implementing special procedures to assess counterparties, measuring operating, financial and reputational aspects of the counterparties in question.

## Default risk and debt covenants

This risk is associated with the possibility that the loan agreements or bond terms and conditions to which the Parent Company is a party may contain provisions authorising counterparties to call in such loans immediately upon the occurrence of certain events, thereby generating liquidity risk. More information on the contractual provisions of outstanding borrowings at 31 December 2022 is provided in the section, "Borrowings and financial liabilities" in the notes to the Terna Group's consolidated financial statements.

## Bank guarantees

Banks have issued guarantees to third parties on behalf of Group companies which, at 31 December 2022, amount to €315.1 million. This amount breaks down as follows: €76.5 million on behalf of Terna S.p.A., €78.7 million on behalf of Tamini Trasformatori S.r.l., €61.9 million on behalf of Terna Rete Italia S.p.A., €39.2 million on behalf of Terna Interconnector S.r.l., €47.7 million on behalf of Gruppo Brugg Cables, €0.1 million on behalf of Terna Plus S.r.l., €4.7 million on behalf of Terna Perù SAC, €0.4 million on behalf of Difebal S.A., €5.8 million on behalf of Terna Energy Solutions S.r.l. and €0.1 million on behalf of Terna Chile S.p.A..

## Litigation

The main commitments and risks not disclosed in the statement of financial position at and for the year ended 31 December 2022, relating to the Parent Company Terna, its subsidiary Terna Rete Italia S.p.A., are described below. There are no significant commitments or risks for the other subsidiaries at that date.

## Environmental and urban planning litigation

Part of environmental litigation deriving from the construction and operation of Terna's power plants, consists of legal actions taken against the alleged negative effects of electric and magnetic fields generated by power lines. In general, this litigation necessarily involves the Parent Company, which owns the infrastructure in question. Moreover, it cannot be ruled out that the parties concerned may also initiate legal proceedings against the subsidiary Terna Rete Italia S.p.A., as the electromagnetism generated by power lines relates not only to ownership of the plant, but also to its operation and the quantity and quality of electricity it transports.

Regarding this matter, it should be noted that the issue of the Cabinet Office Decree of 8 July 2003 – which specifically set the values of the three parameters (exposure limits, safety thresholds and quality targets) provided for in Framework Law 36 of 22 February 2001, which electricity infrastructure must comply with – led to a significant reduction in any such litigation. Other environmental and urban planning disputes, which do not relate to electromagnetic fields, are also pending with regard to Terna S.p.A.. These disputes are connected with the operation of certain Terna-owned plant, which in the event of an unfavourable outcome could also generate immediate effects for Terna Rete Italia S.p.A. (to date unforeseeable and therefore not included in "Provisions for litigation and sundry risks"), both as the entity appointed by Terna S.p.A. to build the related infrastructure and as the entity responsible for its operation. In particular, charges may arise for Terna Rete Italia S.p.A. connected with changes to the infrastructure involved in such disputes and its temporary unavailability. However, after examination of the disputes in question by Terna S.p.A. and external counsel appointed by the Company, it appears that the possibility of any negative outcomes is remote.

It should be noted that, there is a dispute pending in relation to the new 380kV Udine West – Redipuglia power line and the associated infrastructure, which has been in service for two years. Were the legal challenges lodged by local councils and/or private parties to result in cancellation of the consents granted for the project, this could affect operation of the infrastructure.

### Litigation regarding the legitimacy of construction permits and plant operations

Another aspect of litigation connected with the plant owned by the Parent Company derives from legal actions brought before the competent administrative courts, aimed at obtaining the annulment of decisions granting consent for the construction and operation of infrastructure.

### Litigation relating to activities carried out under concession

As the operator of transmission and dispatching activities since 1 November 2005, the Parent Company has been a party in a number of court cases, most of which have contested determinations adopted by ARERA (Italy's Regulatory Authority for Energy, Networks and the Environment), and/or the Ministry for Economic Development, and/or Terna itself, in relation to these activities. In cases in which the plaintiffs have, in addition to inherent defects in the contested determinations, alleged violation of the regulations laid down by the aforementioned authorities, or in cases in which the determination has had an impact on Terna, the Company has also taken action to defend its interests through the legal system. Within the scope of such litigation – even though some cases have been concluded, at first and/or second instance, with the annulment of ARERA's resolutions and, when applicable, of the consequent determinations adopted by Terna – any negative outcomes for the Company itself may be deemed unlikely, as these disputes normally relate to pass-through items.

## F. Business combinations

### Acquisition of LT

The business combination resulting from the acquisition of **LT S.r.l.** (LT Group), completed in the previous year, has been accounted for within 12 months of the date of completion.

The accounting effects of the business combination, in compliance with IFRS 3 – Business Combinations, are shown in the following table, which summarises the consideration paid in order to acquire the LT Group and the value of the assets acquired and liabilities assumed, as recognised at the acquisition date:

### Value of the assets acquired and liabilities assumed

(€000)

	CARRYING AMOUNT 12 OCTOBER 2021	CARRYING AMOUNT 31 DECEMBER 2021	ADJ.	FAIR VALUE
<b>ASSETS</b>				
<b>Non-current assets</b>				
Property, plant and equipment	252	265	-	265
Goodwill	546	537	-	537
Intangible assets	3,033	2,992	5,249	8,241
Deferred tax assets	48	58	-	58
<b>Total non-current assets</b>	<b>3,879</b>	<b>3,852</b>	<b>5,249</b>	<b>9,101</b>
<b>Current assets</b>				
Trade receivables	8,851	9,289	-	9,289
Inventories	2,088	7,271	-	7,271
Income tax assets	76	639	-	639
Other assets	2,024	1,276	759	2,035
Cash	980	2,177	-	2,177
<b>Total current assets</b>	<b>14,019</b>	<b>20,652</b>	<b>759</b>	<b>21,411</b>
<b>TOTAL ASSETS</b>	<b>17,898</b>	<b>24,504</b>	<b>6,008</b>	<b>30,512</b>
<b>EQUITY AND LIABILITIES</b>				
<b>Non-current liabilities</b>				
Employee benefits	456	483	-	483
Provisions for risks and charges	13	87	1,464	1,551
<b>Total non-current liabilities</b>	<b>469</b>	<b>570</b>	<b>1,464</b>	<b>2,034</b>
<b>Current liabilities</b>				
Short-term borrowings	495	2,033	-	2,033
Trade payables	8,373	14,129	-	14,129
Tax liabilities	491	853	-	853
Current financial liabilities	1,695	4	-	4
Other liabilities	1,935	1,671	759	2,430
<b>Total current liabilities</b>	<b>12,989</b>	<b>18,690</b>	<b>759</b>	<b>19,449</b>
<b>TOTAL EQUITY AND LIABILITIES</b>	<b>13,458</b>	<b>19,260</b>	<b>2,223</b>	<b>21,483</b>
<b>NET ASSETS ACQUIRED</b>	<b>4,440</b>	<b>5,244</b>	<b>3,785</b>	<b>9,029</b>
<b>Net assets contributed</b>	<b>4,440</b>	<b>5,244</b>	<b>-</b>	<b>5,244</b>
<b>CONSIDERATION AND SHARE ATTRIBUTABLE TO NON-CONTROLLING INTERESTS AT FAIR VALUE</b>	<b>27,599</b>	<b>27,571</b>	<b>-</b>	<b>27,571</b>
<b>Goodwill</b>	<b>23,159</b>	<b>22,327</b>	<b>(3,785)</b>	<b>18,542</b>

IFRS 3 requires the acquirer to allocate the cost of the business combination in its accounts by recognising all the assets, liabilities and potential liabilities meeting specific recognition criteria at their fair value at the acquisition date. Measurement of the fair value of the assets and liabilities has resulted in adjustments to potential liabilities, amounting to €1.5 million, linked to current litigation and tax risk and intangible assets arising from the Purchase Price Allocation process, amounting to €5.2 million, based on the estimated fair value at 31 December 2021, deemed similar to the value at 12 October 2021, the transaction date.

The expected consideration is higher than the value of the net assets at the acquisition date, resulting in goodwill of approximately €18.5 million.

## G. Related party transactions

Given that Terna S.p.A. is subject to the de facto control of Cassa Depositi e Prestiti S.p.A. (registered office at Via Goito 4, 00185 Rome, Italy and consolidated financial statements available on the website at [www.cdp.it](http://www.cdp.it)), a situation ascertained in 2007, related party transactions entered into by Terna during the year include transactions with the associates (Cesi S.p.A., Coreso S.A. and CGES) and employee pension funds (Fondenel and Fopen), as well as transactions with Cassa Depositi e Prestiti itself, with CDP Reti S.p.A. and with the companies directly or indirectly controlled by the Ministry of the Economy and Finance ("MEF").

Given that Terna Group companies and the companies directly or indirectly controlled by the Ministry of the Economy and Finance meet the definition for classification as "government-related entities", in accordance with IAS 24 – Related Party Disclosures, the Group has elected to adopt the partial exemption – permitted by the standard – from the disclosure requirements in respect of other companies controlled, influenced or jointly controlled by the same government entity. The remainder of this section provides qualitative and quantitative disclosures on transactions with government-related entities having a significant impact on the Group's results. Amounts relating to pass-through items are not included in these disclosures.

Related party transactions in 2022 broadly regard the provision of services in the course of ordinary activities and conducted on an arm's length basis.

The nature of sales to and purchases from related parties by the Terna Group is shown below, followed by details of the revenue and costs resulting from such transactions during the year and the related assets and liabilities outstanding at 31 December 2022.

RELATED PARTY	REVENUE-GENERATING TRANSACTIONS	COST-GENERATING TRANSACTIONS
<b>Parent</b>		
Cassa Depositi e Prestiti S.p.A.		Credit facilities.
<b>Associates</b>		
Cesi S.p.A.	Rental income on laboratories and other similar facilities for specific uses, dividends.	Technical studies and consultancy, research, design and experimentation.
CORESIO S.A.		Technical coordination service for the TSO.
<b>Other related parties</b>		
GSE Group	Metering charge, dispatching charge.	Rental of spaces and workstations.
Fincantieri Group		Development and construction of infrastructure.
Enel Group	Transmission charge and aggregation of meter readings, dispatching charge, leases and rentals, power line maintenance, movement / re-routing of power lines, housing of fibre cable and maintenance of communications carried over proprietary power lines.	Recovery of energy discount, building services, MV power to new substations, specialist services for connection to Terna's control and protection systems.
Ferrovie Group	Dispatching charge, movement of power lines.	Right-of-way fees.
ENI Group	Dispatching charge.	Contributions for NTG connections, sundry services.
Poste Italiane		Sundry services
Snam Rete Gas S.p.A.	Movement /re-routing of power lines.	
ANAS S.p.A.	Movement /re-routing of power lines.	Right-of-way fees.
Open Fiber S.p.A.	IRU agreements for fibre.	Provision of services for the rental of fibre.
Fondenel e Fopen		Pension contributions payable by the Terna Group.
Other related parties of the MEF	Sundry services.	
Ansaldo Energia S.p.A.	Infrastructure maintenance.	

## Revenue and costs

(€m)

	REVENUE COMPONENTS		COST COMPONENTS
	TRANSMISSION CHARGE AND OTHER REVENUE FROM REGULATED ACTIVITIES	NON-ENERGY-RELATED ITEMS	
<b>De facto parent:</b>			
Cassa Depositi e Prestiti S.p.A.	-	0.1	1.1
<b>Total de facto parent</b>	<b>-</b>	<b>0.1</b>	<b>1.1</b>
<b>Associates:</b>			
Cesi S.p.A.	-	0.1	1.3
CORESIO S.A.	-	-	4.2
<b>Total associates</b>	<b>-</b>	<b>0.1</b>	<b>5.5</b>
<b>Other related parties:</b>			
GSE Group	11.5	1.1	-
Enel Group	1,679.6	8.4	1.5
ENI Group	7.6	1.0	0.5
Ferrovie Group	2.5	1.3	0.4
Anas S.p.A.	-	-	0.6
Poste Italiane Group	-	-	0.1
Other related parties of MEF	-	0.2	0.9
<b>Total other related parties</b>	<b>1,701.2</b>	<b>18.1</b>	<b>4.0</b>
<b>Pension funds:</b>			
Fondenel	-	-	0.8
Fopen	-	-	2.8
<b>Total pension funds</b>	<b>-</b>	<b>-</b>	<b>3.6</b>
<b>TOTAL</b>	<b>1,701.2</b>	<b>18.3</b>	<b>14.2</b>



**Assets and liabilities**

(€m)

	PROPERTY, PLANT AND EQUIPMENT	RECEIVABLES AND OTHER ASSETS	PAYABLES AND OTHER LIABILITIES	CASH	GUARANTEES*
	CAPITALISED COSTS	OTHER	OTHER		
<b>De facto parent:</b>					
Cassa Depositi e Prestiti S.p.A.	4.5	-	2.8	-	5.4
<b>Total de facto parent</b>	<b>4.5</b>	<b>-</b>	<b>2.8</b>	<b>-</b>	<b>5.4</b>
<b>Associates:</b>					
Cesi S.p.A.	13.1	-	10.1	-	4.5
<b>Total associates</b>	<b>13.1</b>	<b>-</b>	<b>10.1</b>	<b>-</b>	<b>4.5</b>
<b>Other related parties:</b>					
GSE Group	0.3	1.5	0.3	-	-
Enel Group	19.7	316.3	35.9	-	2.8
ENI Group	-	2.0	0.8	-	-
Ferrovie Group	0.4	4.6	10.4	-	0.3
Anas S.p.A.	1.0	2.5	4.5	-	-
Snam Rete Gas S.p.A.	0.1	-	(0.1)	-	-
Fincantieri Group	0.2	0.1	3.3	-	0.1
Ansaldo Energia S.p.A.	1.2	4.0	10.7	-	24.3
Open Fiber S.p.A.	-	0.6	-	-	-
Other related parties of MEF	0.6	1.6	2.4	0.1	0.7
<b>Total other related parties</b>	<b>23.5</b>	<b>333.2</b>	<b>68.3</b>	<b>0.1</b>	<b>28.2</b>
<b>Pension funds:</b>					
Fopen	-	-	2.4	-	-
<b>Total pension funds</b>	<b>-</b>	<b>-</b>	<b>2.4</b>	<b>-</b>	<b>-</b>
<b>TOTAL</b>	<b>41.1</b>	<b>333.2</b>	<b>83.6</b>	<b>0.1</b>	<b>38.1</b>

\* Guarantees regard surety bonds received from contractors, with the exception of the amount relating to Cassa Depositi e Prestiti S.p.A. regarding a Revolving Credit Facility.

The impact of related-party transactions or positions on the statement of financial position and the income statement is summarised below:

### Statement of financial position

(€m)

	31 DECEMBER 2022			31 DECEMBER 2021		
	TOTAL	RELATED PARTIES	% SHARE	TOTAL	RELATED PARTIES	% SHARE
Property, plant and equipment	16,200.9	41.1	0.3%	15,316.6	60.3	0.4%
Trade receivables	2,358.3	333.2	14.1%	2,777.4	302.3	10.9%
Cash and cash equivalents	2,155.1	0.1	-	1,566.8	0.1	-
Trade payables	3,687.7	60.9	1.7%	3,275.6	59.9	1.8%
Other current liabilities	669.9	22.7	3.4%	453.4	19.4	4.3%

### Income statement

(€m)

	2022			2021		
	TOTAL	RELATED PARTIES	% SHARE	TOTAL	RELATED PARTIES	% SHARE
Revenue from sales and services	2,898.1	1,718.7	59.3%	2,534.5	1,766.9	69.7%
Other revenue and income	66.4	0.8	1.2%	71.8	1.6	2.2%
Raw and consumable materials used	247.8	-	-	206.4	0.1	-
Services	276.9	10.4	3.8%	218.3	11.0	5.0%
Personnel expenses	348.1	3.7	1.1%	295.3	3.5	1.2%
Other operating costs	32.5	0.1	0.3%	31.5	0.1	0.3%
Financial expenses	(121.8)	-	-	(95.8)	-	-

The impact of related party cash flows is shown below:

### Statement of cash flows

(€m)

	2022			2021		
	TOTAL	RELATED PARTIES	% SHARE	TOTAL	RELATED PARTIES	% SHARE
Cash flow from operating activities	2,323.7	(26.6)	(1.1%)	832.3	(89.6)	(10.8%)
Cash flow from investing activities	(1,855.4)	19.2	(1.0%)	(863.3)	(5.9)	0.7%
Cash flow from financing activities	92.5	-	-	(1,051.8)	-	-

## H. Significant non-recurring, atypical or unusual events and transactions

With the exception of the instances described above, no significant non-recurring, atypical or unusual events or transactions, involving either third or related parties, took place in 2022.

## I. Notes to the statement of cash flows

Cash flow from **continuing operations** amounts to €2,323.7 million, with approximately €2,072.7 million in operating cash flow and an outflow of approximately €251.0 million generated by changes in net working capital.

The cash outflow for **investing activities** totals €1,855.4 million and regards €1,492.3 million relating to investment in property, plant and equipment (excluding right-of-use assets recognised in application of IFRS 16), €212.4 million invested in intangible assets and €350.5 million reflecting the change in investments in securities, after €157.0 million in proceeds from the aforementioned sale of the Latin American assets and capitalised financial expenses of €24.8 million.

The net change in equity amounts to an increase of €381.5 million, due primarily to recognition of the reserve for the hybrid green bond, totalling €989.0 million. This was partly offset by the payment of dividends (totalling €595.8 million), primarily relating to payment of the final dividend for 2021 and the interim dividend for 2022 to the Parent Company's shareholders. More details are provided in note "24. Equity attributable to owners of the Parent and non-controlling interests".

As a result, net cash used in investing activities and to provide a return on equity during the year led to a total outflow of €1,473.9 million, covered entirely by cash flow from continuing operations of €1,855.4 million. The repayment of bonds early in the year (replaced by the €1 billion hybrid green bonds issued on 2 February 2022, accounted for in equity), has resulted in a reduction in net debt.

The following table shows the reconciliation of net changes deriving from financing activities in the statement of cash flows:

(€m)

	31 DECEMBER 2021	CASH FLOW FROM FINANCING ACTIVITIES	CHANGE IN FV AND OTHER	31 DECEMBER 2022
- Long-term borrowings (including current portion)	10,695.0	263.2	(632.2)	10,326.0
- Short-term borrowings	1,947.0	(552.2)	(950.7)	444.1
<b>Net change deriving from financing activities</b>	<b>12,642.0</b>	<b>(289.0)</b>	<b>(1,582.9)</b>	<b>10,770.1</b>

## L. Government grants

Article 1, paragraphs 125 to 129, of Law 124 of 4 August 2017 (the annual markets and competition law) has introduced a number of measures designed to ensure the transparency of the government grants system. These measures, later amended by Law Decree 34 of 30 April 2019, include an obligation for companies to disclose amounts and information regarding assistance, subsidies, benefits, grants or aid, whether in cash or in kind, in the notes to the annual financial statements and, where applicable, in consolidated financial statements, where such amounts are not of a general nature and do not have the form of a fee, remuneration or compensation and have been received from a public body (paragraph 125-*bis*). The legislation also requires the disclosure of any grants disbursed (paragraph 126).

In accordance with Circular 5 of 22 February 2019 "Transparency in the government grants system: an assessment of the regulations and interpretation guidance" and Circular 32 of 23 December 2019 "Enterprise and competition", published by Assonime, the Terna Group has adopted the following basis of reporting for government grants:

- the regulations only apply to entities resident in Italy;
- grants have the nature of grants or donations, and represent incentives or subsidies designed to give beneficiaries a recognised economic advantage; the grants therefore take the form of donations or giving and public aid for specific purposes, and are not awarded under a general aid regime;
- the public resources used are exclusively "national";
- grants are reported on a cash basis and if the amount is not less than €10,000 (with reference to each individual beneficiary) in the reporting period.

In line with the above, the following table shows government grants collected/dispensed by the Group in 2022:

### Grants received (paragraph 125-*bis*)

BENEFICIARY ENTITY	GRANTOR				
	NAME	VAT NUMBER	TYPE OF TRANSACTION	AMOUNT (€)	NOTE
TERNA SPA	Ministry for Economic Development	80230390587	State aid *	15,574,648.46	Grants collected on the basis of a report on the state of work in progress on projects carried out by Terna S.p.A. financed by government grants, with funding provided under the National Operational Programme (NOP) for Enterprises and Competitiveness 2014 - 2020 FESR - ASSE IV – Investment priority 4d - Action 4.3.1
<b>TOTAL</b>				<b>15,574,648.46</b>	

\* These grants are covered by the obligation to publish them in the national state aid register.

**Grants disbursed (paragraph 126)**

GRANTOR	BENEFICIARY			TYPE OF TRANSACTION	AMOUNT (€)	NOTE
	NAME	TAX CODE	VAT NUMBER			
TERNA SPA	Chiamonte Gulfi	00068940881		GIVING	10,000	Cultural and theatrical activities 2021-2022 season
TERNA SPA	Coldiretti	97467440588	10569111007	GIVING	25,000	Amica Campaign
TERNA SPA	Maggio Fiorentino	00427750484	00427750484	GIVING	20,000	Symphonic Season
TERNA SPA	Madonna di Pompei Parish	97521820015	97521820015	GIVING	10,000	Pompei Hackathon Project
TERNA SPA	Save The Children	97227450158	07354071008	GIVING	30,000	Ukraine Emergency
TERNA SPA	Caritas Italiana	80102590587	80102590587	GIVING	30,000	Ukraine Emergency
TERNA SPA	Confindustria Energia	97441040587		GIVING	20,000	Study on energy infrastructure
TERNA SPA	Komen	06073831007	06073831007	GIVING	60,000	Prevention day across the whole of Italy
TERNA SPA	Europacoloni Italia Onlus	97988510588		GIVING	40,000	Vinci Campaign 2022
TERNA SPA	Chigiana Music Academy Foundation	00068580521		GIVING	10,000	Summer Academy 2022
TERNA SPA	Save The Children	97227450158	07354071008	GIVING	24,417	Ukraine Emergency Donations
TERNA SPA	Caritas Italiana	80102590587	80102590587	GIVING	24,417	Ukraine Emergency Donations
TERNA SPA	Venezia World Sustainability Capital Foundation	94102820274		GIVING	34,000	Joining the foundation as co-founding member
TERNA SPA	Vespasiano Foundation	90053860574	01042190577	GIVING	10,000	Reate Festival
TERNA SPA	Sant' Erasmo Nautilus Association	05571220820		GIVING	40,000	Il Mare Di Tutti
TERNA SPA	Confindustria	80017770589		GIVING	19,215	Study on the proposal of reform for the Italian electricity market
TERNA SPA	Intercultura Onlus	91016300526		GIVING	45,000	Funding for 5 scholarships as part of the EmpowHer project
TERNA SPA	Santa Cecilia National Academy	05662271005	05662271005	GIVING	160,000	Second tranche
TERNA SPA	ASD Grifone		13928301004	GIVING	15,000	Sporting association support
LT SRL	TRIIRON Amateur Sporting Association		02789661200	GIVING	10,000	Sporting association support
TERNA SPA	Marcigliana Protection and sustainability project	97727100584	97727100584	GIVING	36,000	FUKYO O.d.V. Association donation
TERNA SPA	XXXVI international peace meeting	80191770587	02132561008	GIVING	30,000	Sant'Egidio community donation
TAMINI TRASFORMATORI SRL	FONDIMPRESA	97278470584		GIVING	16,309	English training plan no. 294897
<b>Total</b>					<b>719,358</b>	

## M. Events after 31 December 2022

### Green light for two new underground cables in Salerno

On **4 January 2023**, the Italian Ministry for the Environment and Energy Security gave its **consent** for Terna's project for the **construction of two new 220kV underground power cables that will connect the "Salerno Port" primary cabin to the "Salerno North" primary cabin**. For the project, which has also received the green light from Campania Region Authority, the Italian electricity grid operator has plans to invest around €24 million. Terna will build two completely underground cables stretching over 5 km each. The routes for the new power lines will initially run alongside existing roads. They will then diverge before reuniting up to the entrance of the Porta Ovest tunnel, forming part of the Salerno Port Authority's plan, which the cables will follow up to the Salerno Port primary cabin. The Company will use underground cables with XLPE insulation, a highly efficient and sustainable technology. The project is essential in upgrading energy infrastructure to keep pace with the development of the city of Salerno, whilst also promoting decarbonisation of the port area.

### Terna acquires asset in Alto Adige region for approximately €14 million

On **5 January 2023**, Terna agreed to acquire a 100% stake in Edyna Transmission Srl, an Alperia Group company operating in the transmission sector. The acquired company, which owns 34 km of high-voltage power lines and 2 electricity substations in Alto Adige, already part of Italy's electricity grid, was acquired for a total consideration of approximately €14 million. The agreement is subject to the fulfilment of certain conditions precedent. The transaction is part of the Terna Group's strategy to unify Italy's national electricity transmission infrastructure, consolidating parts of the high-voltage grid owned by local utilities, with the goal of further improving grid efficiency and reliability.

### Green light for new Livigno-Premadio underground connection in the province of Sondrio

On **5 January 2023**, the Italian Ministry for the Environment and Energy Security gave its **consent** for the **Livigno-Premadio electricity connection** that Terna plans to install in the province of Sondrio. Terna will invest €65 million in the project, which is one of the key projects planned by Terna in order to boost the reliability of energy supplies in the locations due to host the Milan-Cortina Olympic and Paralympic Games in 2026. The new infrastructure foresees the construction of a power line, formed of two underground cables, between the primary cabin in Livigno owned by the local distributor and the Terna substation located in Premadio, in the municipality of Valdidentro. The lines will almost entirely follow the same route, around a total of 20 km in length, partly following state highway 301 at over 1,500 metres above sea level. The plan will ensure greater meshing of the electricity grid in the area, also increasing the resilience of the energy transmission system in areas that have been heavily affected by extreme weather events in recent years. Preparations for work to begin, planned for 2023, will soon be made with the aim of completing and commissioning the connection by the second half of 2025, just in time for the start of the event.

### €105 million investment in new undersea electricity connection between Sicily and Calabria

On **10 January 2023**, the Italian Ministry for the Environment and Energy Security **launched the consents process for the 'Bolano-Annunziata'**, Terna's new electricity infrastructure that will connect Sicily with Calabria. To complete the project, which is strategic for the entire Italian electricity system, the Company will invest €105 million. The 380 kV AC infrastructure, part of Terna's ten-year Development Plan for the Italian transmission electricity grid, will make it possible to increase the total electricity exchange capacity between the island and the mainland up to 2000 MW, favouring the development of renewable sources planned in Southern Italy. It will also help improve the grid's meshing and operational flexibility, making the electricity systems of Southern Italy and Sicily even more secure. The project will have several

phases. The main phase will consist of laying around 7.5 km of undersea power cables to connect the Bolano (province of Reggio Calabria) and Annunziata (province of Messina) electricity substations. This power line will also have a fibre connection for data transmission. Additionally, Terna will create two underground power lines. The first, about 3 km long, will start at the Sicilian landing site and end at the Annunziata substation. The second, about 500 meters long, will make its way from the Calabrian landing site to the Bolano substation. Terna will adapt the latter by creating a new 380 kV section installed inside a newly constructed building. The entire adaptation will take place in areas near the current plant and will involve the municipalities of Reggio Calabria and Villa San Giovanni.

## Green light for rationalisation of the electricity grid between Dolo (VE) and Camin (PD)

On **11 January 2023**, the Italian Ministry for the Environment and Energy Security gave its **consent** for **Terna's plan to rationalise the electricity grid between Dolo (Venice) and Camin (Padua)**, designed to improve reliability, quality of service and the efficiency of the area's power grid. Terna plans to invest €130 million in construction of a new 380 kV underground cable power line approximately 16.5 km long and the demolition of 32 km of existing overhead power lines. The new connection will make it possible to dismantle 123 pylons and free up approximately 95 hectares of land from electricity infrastructure. The municipalities involved in the project are Dolo, Camponogara, Stra, Fossò and Vigonovo in the Venice province and the municipalities of Padua and Saonara (the latter only involved in removal operations) in the Padua province. The new underground cable connection will facilitate the safe management of energy exchanges between the areas of Venice and Padua and will increase the resilience of the North-Eastern grid, which is increasingly exposed to the effects of extreme weather events, in particular intense snowfall and gusts of wind. At the same time, the work will make it possible to reduce grid losses, resulting in improved efficiency of the energy transmission service. The project, which is part of a wider rationalisation of the high-voltage grid in the Venice and Padua areas, is one of the regional electricity grid development works provided for in the Memorandum of Understanding signed by Terna and the Veneto Region in 2019 and the result of many meetings and inspections with the Region and the municipalities involved, aimed at identifying shared solutions and defining the route.

## Consents obtained for new projects amounting to investment of over €2.5 billion in 2022

On **12 January 2023**, Terna achieved a **new all-time record: 2022 saw the Italian Ministry for the Environment and Energy Security and regional councils grant consent for 29 projects, representing total investment of over €2.5 billion in development of the national transmission grid**. After exceeding the €1 billion in approved investments in 2021 for the first time in history, in 2022, the Company achieved a new record, more than doubling the figure for the previous year and increasing the 2020 number tenfold (€266 million). Getting the green light for the eastern section of the Tyrrhenian Link was the biggest factor in achieving this result. This stretch of undersea power line, worth more than €1.9 billion, will connect Campania and Sicily. With 7 approved projects out of 29 decrees issued (24 from the Italian Ministry of the Environment and Energy Security and 5 from regional councils), the Lombardy Region has the highest number of new projects, totalling about €130 million. Next is Campania, with 5 projects, and then Sicily and the Self-governing Province of Bolzano, with 4. Additionally, 8 new electricity substations were approved, including 2 converter substations for the Tyrrhenian Link. After the record-breaking undersea cable, which will be fully operation in 2028, the most financially significant project approved in 2022 was the Dolo-Camin power line, which will run between the provinces of Venice and Padua. The power line (16.5 km of 380kV underground cable) will make it possible to demolish nearly 32 km of overhead power lines running through 7 municipalities. These are followed by, in order of investment value, the projects planned the southern quadrant of the Metropolitan City of Rome at a cost of over €70 million, 3 new underground cable lines, amounting to over 30 km, and a new electricity substation, and the €65 million Livigno-Premadio connection, essential for improving the reliability of the power supply and the resilience of the Lombardy grid in anticipation of the Milan-Cortina Olympic and Paralympic Games in 2026.

## Green light for new cable connection between Rome East and Enea Frascati

On **20 January 2023**, the Italian Ministry for the Environment and Energy Security gave its **consent** for the **new connection between Terna Rome East and ENEA Frascati**, in which the Company is to invest more than €70 million. The project involves the construction of a series of works in the eastern quadrant of the Metropolitan City of Rome aimed at fulfilling the connection request submitted by ENEA. ENEA, the Italian National Agency for New Technologies, Energy and Sustainable Economic Development, submitted a connection modification request to the national transmission grid to supply a consumption plant at the Research Centre in Frascati (RM) used to power the Divertor Tokamak Test facility, an experimental machine aimed at the production of renewable, safe and unlimited energy. Specifically, the authorised works will enable the construction of three new 150 kV underground power lines extending for a total of 40 km. For the three power lines, Terna will use cables with XLPE insulation, a highly reliable, efficient and sustainable technology. The planned power lines will almost entirely follow the route of the existing infrastructure. To guarantee the capacity and continuity of supply required by ENEA, Terna will also build a new 150kV switching substation in the municipality of Frascati, and will update the existing “Rome East” substation in the Municipality of Galliciano in Lazio. Once the works are complete, the existing “ENEA Frascati RM - ENEA Frascati UT” 150kV overhead power line, which extends for around 300 metres, will be demolished.

## Launch of consents process for new cable power line for Messina

On **25 January 2023**, with publication of the parcels of land regarding the area that will potentially host the infrastructure, Terna announced the launch of the consents process for the new 150kV power line that will connect the Messina North and Messina Riviera primary substations. The project, in which the Company will invest approximately €20 million, involves construction of a completely underground cable connection extending for over 10 km. The route will follow existing road infrastructure for almost its entire length. Terna will use latest-generation cables with XLPE insulation, a particularly reliable and sustainable technology. The works will enable increased meshing of the 150 kV line between the substations of Sorgente and Villafranca, which features four primary cabins for a total load of approximately 60 MW at peak times, when there is a significant tourist population on the coast. Once authorisation is secured, Terna will begin the design, planning and construction of the power line, which will be operational approximately 24 months later.

## Terna, Reware and Legambiente Sicily: computer lab and language lab opened at the San Giovanni Apostolo Association's centre in a former public housing complex in Palermo

Thanks to the donation of 40 computers by Terna as part of the **Terna-Reuse: Circular computers in the community project**, run in collaboration with the Reware Cooperative and Legambiente Sicily, on **30 January 2023**, two laboratories, a computer and a language lab, were opened at the **San Giovanni Apostolo Association's centre in the former public housing complex in Palermo**. The ceremony was attended by local administrators, Maria Antonietta Sidoni, Terna's Sicily Transmission District Manager, along with representatives of the Reware cooperative, Giuseppe Alfieri and Vanessa Rosano of Legambiente Sicilia, Libera Association, the local branch of the Carabinieri and a number of schools and associations that will benefit from the donation. To be precise, the two labs are located respectively in a meeting centre managed by the San Giovanni Apostolo Association, which has worked to integrate various elements of the social fabric and to counter marginalisation through education for 20 years, and in the “Giuliana Saladino” State Comprehensive School.



## Over €100 million in investment in the Brianza power grid

On **31 January 2023**, the Italian Ministry for the Environment and Energy Security **launched the consents process for the rationalisation of the HV electricity grid serving the western part of Brianza**. Terna plans to invest over €100 million in this project. The restructuring work, which will involve the municipalities of Seveso, Barlassina, Cesano Maderno, Cogliate and Ceriano Laghetto in the province of Monza-Brianza (Lombardy), will enable an increase in efficiency of the electricity transmission service in the area and, with improved meshing of the local grid, will guarantee greater continuity and security of operation. The Company will create approximately 13 km of new power lines in underground cable, enabling the demolition of 7.3 km of overhead power lines located predominantly in densely populated areas in the municipalities of Seveso and Cesano Maderno. Plans for the new infrastructure will enable the removal of 18 pylons and will free up approximately 30 hectares of land. In addition, Terna will create two new substations in the municipalities of Barlassina and Cesano Maderno: these systems will be integrated into the landscape, protecting the local area and adopting environmental mitigation measures, including green engineering works.

## Terna's place in Bloomberg's Gender Equality Index (GEI) confirmed

On **31 January 2023**, Terna confirmed its ranking as one of the world's most inclusive companies. This is because the Company has been **included in Bloomberg's Gender Equality Index (GEI) for the fifth successive year**. The GEI is an international index of companies' performances regarding gender equality issues and the quality and transparency of their public reporting. Terna is one of only 484 global businesses operating in 45 countries and 11 different sectors, selected from over 11,700 companies, to be included in the final index. This year, Terna saw its GEI score for 2022, that Bloomberg uses to evaluate companies' Gender Equality policies, improve compared with 2021, with a result above the overall average for the companies included in the index and the average for the companies in the utilities sector. The better score is mainly due to the Italian national electricity grid operator's performance in the "Inclusive Culture", "Pro-women brand" and "Female leadership & talent pipeline" areas. Additionally, Terna yet again achieved a perfect score in "Disclosure", a decisive aspect for the total assessment, confirming the Company's commitment to transparency and quality of reporting, distinctive features of the ESG policies pursued by the Company and presented in its Integrated Report.

## Consents process begins for Adriatic Link, the new submarine cable between Abruzzo and Marche

On **1 February 2023**, the Italian Ministry for the Environment and Energy Security **launched the consents process for construction of the Adriatic Link**, the new direct current undersea power line that will connect Abruzzo and Marche, in which Terna will invest over €1 billion, involving approximately 120 firms in the project, including contractors and the downstream supply chain. will enable an increase in exchange capacity of approximately 1000 MW between the Centre-South and Centre-North zones of the country, boosting the security, efficiency and resilience of the entire national transmission grid. The Adriatic Link, a project included in Terna's 2018 Development Plan, is highly advanced in both technological and environmental terms. The "invisible" power line, running for a total of approximately 250 km, will be made up of two submarine cables with a length of approximately 210 km and two underground cables of approximately 40 km. The two electrical converter stations will be created near the existing substations of Cepagatti (province of Pescara), for Abruzzo, and Fano (province of Pesaro-Urbino) for the Marche region, and will have a minimal impact on the local environments.

## Consents process begins for a new cable power line in the province of Viterbo

On **6 February 2023**, following the Italian Ministry for the Environment and Energy Security's launch of the consents process for a new cable power line in the province of Viterbo, **Terna published the notice containing the parcels of land regarding the area that will potentially host the infrastructure**. The project, in which the Company will invest €23 million, involves creation of a 150kV underground cable running for 9 km, connecting the primary cabins of Viterbo and Pian di Tortora, both in the Municipality of Viterbo. The work will enable improved meshing of the local grid and an increase in efficiency and reliability of the electricity transmission service, guaranteeing greater continuity and security of operation. The connection, which will run primarily along existing roads, will be created using latest-generation cables with XLPE insulation. This is particularly reliable and sustainable technology that guarantees greater transport capacity for the integration of renewable generation plants in the areas. Once authorisation is received from MASE, the new connection will go live within 24 months.

## Terna completes acquisition of shares in SEIeNe CC S.A.

On **7 February 2023**, the acquisition of shares in SEIeNe CC S.A. was completed, with the aim of enabling **Transelettrica to sell its stake**. As a result, the company's shareholders (all of whom hold an equal number of shares: 66,666) are now: IPTO S.A. (the Greek TSO), ESO-EAD (the Bulgarian TSO) and Terna S.p.A.

## Terna is the world's leading electricity company in S&P's Sustainability Yearbook 2023

On **9 February 2023**, **Terna was included among the 'Top 1%' companies in the Sustainability Yearbook 2023**, the leading publication produced by S&P Global, the international rating agency that assesses the ESG performance of over 7,800 companies worldwide. Thanks to an excellent score of 91 (out of 100) awarded by S&P Global in its 'Corporate Sustainability Assessment 2022', Terna recorded the best score among the 250 electric utilities assessed who, on average, obtained a score of 50. For the eighth time in 14 years of inclusion in the Dow Jones Sustainability index, the Company has achieved the highest possible ranking in the Sustainability Yearbook.

## Green light for underground cable linking Moena with Campitello (Trento)

On **9 February 2023**, the Self-governing Province of Trento gave its **consent for the 132kV connection between Moena and Campitello**, which will cross the municipalities of Moena, Soraga, San Giovanni, Mazzin and Campitello in Val di Fassa. The Company will invest €48 million in the project, one of the main initiatives planned by Terna to increase energy reliability at the Milan-Cortina Olympic and Paralympic Games in 2026. The project involves the construction of 19 km of new underground power lines that will connect the Primary Cabins of Moena and Campitello, owned by the local distributor, with the new Terna Electrical Substation in the Municipality of Moena. The latter will be built using compact gas-insulated technology architecturally in-keeping with the surrounding landscape to maintain the beauty that Val di Fassa is known for. The plan will ensure greater meshing of the local grid and will increase the resilience of the energy transmission system in areas that have been heavily affected by extreme weather events in recent years. All the design solutions are the result of a profitable process of dialogue undertaken by Terna, together with the Self-governing Province of Trento, with all the municipalities involved. All the preliminary activities to begin the works will be launched in early 2023 with the aim to complete and commission the connection by the second half of 2025.

## Agreement with Greenpeace Italia, Legambiente and WWF for increasingly sustainable electricity infrastructure

On **14 February 2023**, Terna signed a new **Memorandum of Understanding with environmental associations for the development and construction of increasingly sustainable electricity infrastructure, integrated into the local areas and respectful of the environment and biodiversity**. Today in Rome, the Chairwoman of Terna, Valentina Bosetti, the President of Greenpeace Italia, Ivan Novelli, the President of Legambiente, Stefano Ciafani, and the President of WWF Italia, Luciano di Tizio, renewed and further extended the existing collaboration established in recent years between them for the next 3 years. The collaboration between Terna, Greenpeace Italia, Legambiente and WWF Italia aims at an increasingly ambitious improvement of the environmental sustainability of the ten-year Development Plan for the Italian transmission grid and of Terna's industrial plan, with a view to the decarbonisation of the electricity system, also through concrete and constant dialogue and institutional discussion on subjects and measures of mutual interest. The agreements between the company led by the CEO Stefano Donnarumma and the environmental associations will make it possible to start a conversation on future energy scenarios and on the technological innovations of the electricity grids to support renewable energy sources, on the basis of the objectives set by European legislative packages and national directives contained in the PNIEC and in the NRRP. Furthermore, they will serve to focus attention on the integration, in local planning, of the other resources necessary for the energy transition, i.e. storage systems and sustainable energy sources, in particular offshore wind farms.

## Launch of the Driving Energy Award 2023 – Contemporary Photography

After the success of the first edition, on **15 February 2023**, Terna launched the **Driving Energy Award 2023 – Contemporary Photography**, the free competition open to all photographers in Italy, aimed at promoting the country's cultural development and nurturing new talent in the sector. This year's theme is "In praise of balance". From 15 February and until 30 June, photographers are invited to interpret one of the key concepts of our culture which, thanks to the wealth of meanings and connotations, can provide various points for artistic and creative reflection. Balance is also a fundamental cornerstone of Terna's mission which guarantees a balance between energy produced and energy consumed, round the clock and every day of the year, through its dispatching activity, enabling the electricity system to function better to enable the energy transition and transmission of all the energy the country needs.

## Memorandum of Understanding signed for re-routing of the Villavalle-Spoleto power line in the province of Perugia

On **16 February 2023**, the **Mayor of Spoleto (PG), Andrea Sisti**, signed a **memorandum of understanding with Terna for the joint development of a new route for the 132kV Villavalle-Spoleto power line**. Signature of the memorandum of understanding confirms the good result of the consultation carried out by the Municipality of Spoleto and Terna, which has always been keen to listen to the needs of local communities, to minimise the impact of the project authorised in 2019 by the Ministry of Economic Development with the Ministry of the Environment (today Ministry of the Environment and Energy Security). The project involves the delocalisation of a 6 km section of the current power line that crosses Spoleto, thanks to the construction of a new line, in part overhead and in part in underground cable, and of a switching station, near the Colacem plant, connected to the 132kV "Giuncano – Foligno" and "Cementir – Spoleto" power lines. The work, as well as making the local power supply more reliable, will bring important environmental benefits thanks to the demolition in the town centre of Spoleto of approximately 4 km of obsolete lines, for a total of 19 pylons, thus returning approximately 10 hectares of land to the community.

## Launch of new cable power line in Naples

On **20 February 2023**, following the Italian Ministry for the Environment and Energy Security's launch of the consents process for a new cable power line for Naples, **Terna published the notice containing the parcels of land regarding the area that will potentially host the infrastructure**. The project, in which the Company will invest around €12 million, involves the creation of a 220kV underground power line running for approximately 5 km, connecting the primary cabins of Doganella and Poggioreale, both in the Municipality of Naples. The project, which will increase the meshing of the electricity grid in the region and provide greater security for the transmission system, will improve power flow distribution in the eastern part of the city. The power line will travel through the fourth and sixth municipalities of Naples and will cross the industrial area in Poggioreale, mainly following the route of the existing infrastructure. The connection will be developed using latest-generation cables with XLPE insulation, a particularly reliable and sustainable technology. Once the consent has been granted, the power line is scheduled to enter service within the next 36 months.

## Laying of submarine cable between Elba and the Mainland begins

On **23 February 2023**, Terna **began laying submarine cable for the 132kV connection between the island of Elba and Piombino (LI)**. The 34 km of submarine cable, transported by the biggest cable-laying ship in the world, the Leonardo Da Vinci operated by the Prysmian Group, will be placed at a maximum depth of around 70 metres below sea level, starting from the island landing site at Portoferraio and continuing towards the continental coast of Piombino. The works will take approximately 10 days. The undersea cable of the new connection will be protected from possible damage caused by human activity for the entire length of the route thanks to the use of specially designed latest-generation machinery. In designing and implementing the project, Terna has been guided by the highest sustainability standards, taking steps to protect the marine habitat. The new power line between the Island of Elba and Tuscany, in which the Company has invested around €90 million, will represent strategic infrastructure that will double the number of connections between the national electricity system and the grid on the island of Elba. The new power line will contribute to improving the quality of the local infrastructure, guaranteeing important benefits in terms of safety, reliability and sustainability on the entire island, which tends to have high electricity consumption over the summer period.

## First online digital platform for requesting the connection of renewable energy plants to the grid goes live

In collaboration with the Ministry of the Environment and Energy Security, on **27 February 2023**, Terna inaugurated its digital platform that, for the first time, centralises all information on high-voltage connection requests from renewable plants in Italy. Designed by the Company and the only system of its kind in the world, **Econnexion will enable stakeholders and electricity sector operators to view information on the geographic location and authorisation status of new, onshore and offshore photovoltaic and wind initiatives across Italy**. The data available the dashboard (<https://www.terna.it/en/electric-system/grid/econnexion>), which are updated every three months, are divided by source and shown in terms of output, and can be viewed by users as a graph or as a table. Specifically, the "Connection Requests" section enables users to filter requests by source (solar, onshore wind, offshore wind) in an aggregated format (number, output and percentage distribution). Using the interactive map, it is possible to view details at a regional, provincial or municipal level, and, thanks to the search filters, to select all active requests in a certain municipality and their authorisation status, for example, and compare renewable energy plant initiatives in various provinces or regions based on the so-called "General Minimum Technical Solution" (GMTS) produced by Terna. The "Fit for 55 Target" section shows the most significant data on photovoltaic and wind power initiatives (onshore and offshore) broken down by market area, with reference to the target set by the "Fit for 55" package for 2030, which envisages a reduction in greenhouse gas emissions of at least 55% by 2030 compared with 1990 levels.

## Terna strengthens commitment to decarbonisation. The aim is to cut CO<sub>2</sub> emissions by 46% by 2030

On **2 March 2023**, Terna announced that it was **strengthening its commitment to combatting climate change by setting new targets for cuts in greenhouse gas emissions from its direct and indirect activities**. The Company has adopted a new Science-Based Target (SBT) through which it undertakes to cut by 2030 its CO<sub>2</sub> emissions by 46%, compared with 2019, improving the previous target that called for a reduction in climate-altering emissions by approximately 30%. In line with its sustainability strategy and the Paris Agreement, Terna had adopted its first Science-Based Target in 2021 when it committed to a cut in emissions from its direct activities (“Scope 1”) and indirect activities (“Scope 2”) in line with the “well below 2°C” scenario, i.e. complying with the guidelines recommended by scientists to keep the global temperature increase well below the limit of 2 degrees centigrade. The new decarbonisation commitment adopted by the national transmission grid operator and approved by SBTi (Science-Based Targets initiative) provides for targets in line with the “1.5°C” scenario, the most ambitious temperature target established by the Paris Agreement, which recommends a limit on the increase in global warming below 1.5 degrees. The Science-Based Target signed by Terna also introduces a target to reduce “Scope 3” indirect emissions, such as those relating to employee mobility or the supply chain. The new target also extends the scope of application to the subsidiaries Brugg and Tamini.

## Terna: the first and only Italian company to receive compliance management system certification

On **6 March 2023**, Terna became the only company in Italy to have achieved **ISO 37301:2021 (International Standards Organization), certification granted by Accredia**, Italy’s sole national accreditation body, extended to all relevant compliance obligations of the main Group companies (Terna Rete Italia, Terna Energy Solutions and Terna Plus). The certification, issued by IMQ, Istituto Italiano del Marchio di Qualità, following an assessment, recognises the national electricity grid operator’s ability to guarantee not only processes compliant with national and European regulations, but an important opportunity to grow the compliance culture within the Group. ISO 37301:2021 is a recent international standard which specifies requirements and provides guidelines to develop, maintain and improve compliance management systems. Adoption of this model also contributes to the achievement of three important sustainable development goals: decent work and economic growth, peace, justice and strong institutions and sustainable cities and communities.

## 8 March: Terna to provide eight STEM scholarships to refugee women

To mark International Women's Rights Day, **Terna made eight STEM scholarships available for refugee women on 7 March 2023**. The initiative, carried out in collaboration with Sistech, a European non-profit association that promotes the access of refugee women to the digital & tech world of work, aims to promote inclusion and diversity through innovation, requalification and improvement of their skills. In particular, Terna has chosen to finance a number of quarterly scholarships whose courses focus on data science, web or software development, digital project management, cyber security and digital marketing. The project chosen by the national electricity grid operator is called Boost and also includes a series of services to help refugee women access the jobs market through language courses and psychosocial support, in addition to logistics. In continuity with previous years, the Group has identified a specific theme for 8 March: “Education and Training”, through which to draw attention to the importance of gender equality and overcoming gender stereotypes, as evidenced by the Data Girls and SheTech programmes, promoted by Terna regarding the training of women in STEM subjects.

## Terna meets the public in Vico Equense (NA) to discuss restructuring of the grid serving the Sorrentino peninsula

On **10 March 2023**, a well-attended ‘Terna Incontra’ meeting with the public in Vico Equense (NA) came to a successful conclusion. The meetings was held to discuss work on the 150kV “Sorrento - Vico Equense - Agerola - Lettere” electricity connection within the local area. The Mayor of Vico Equense, Giuseppe Aiello, and local councillor Rossella Staiano spoke at the meeting held at the Oratorio San Raffaele. During the meeting, Terna technicians gave citizens all the information about the work that will involve the municipality, also noting comments about the project from local people. The project, in which Terna will invest around €40 million, is part of a larger restructuring plan for the Sorrento peninsula and will make it possible to improve the reliability of the electricity system and provide voltage in excess of 60kV, which is no longer adequate to ensure the security, resilience and quality of the electricity transmission service in the area. Once complete, it will also make it possible to demolish around 60 km of old power lines and more than 160 pylons on the Sorrento peninsula, following their replacement with 23 km of new overhead power lines and 12 km of underground cable.

## New Suvereto (LI) office opens

On **10 March 2023**, the **Terna’s new Suvereto (LI) office opened**. The event was attended by the Company’s senior management and local dignitaries. The new eco sustainable building, completed in just 18 months, will host approximately 50 employees and will play a central role in preparations for the construction of Sa.Co.I 3, the submarine connection that will link Tuscany, Sardinia and Corsica, and its converter substation. The project, in which Terna has invested €10 million, is a concrete example of urban redevelopment through the recovery of an abandoned building of around 26,000m<sup>2</sup> and the relocation and construction of new high energy efficiency class A4 buildings, in place of the current outdated offices. The external shell consists of distinctive elements of sustainable building, such as ventilated walls covered in terracotta, thermo-regulated spaces and renewable energy systems. The environmental regeneration work carried out, including about 9,000m<sup>2</sup> of green area made up of native plants, contributes to the structure’s perfect integration into the surrounding landscape. In addition to offices, the new headquarters will also house services, warehouses, workshops, storage for materials, waste collection and parking lots. The project represents an example of construction designed and built through the redevelopment of heritage assets in terms of environmental sustainability, in full compliance with the Group’s energy development goals.

## Planting of approximately 130 new trees in Roma gets underway

On **13 March 2023**, Terna **began the planting of over 130 trees**, including oleander, pear and oak trees, in Viale Buoizzi in Rome and later in the Villa Borghese park and in via Gramsci. The new trees have replaced those felled last July during work on the underground cable that makes up the 150kV “Nomentana - Villa Borghese” line, as previously agreed with the local authority. Planting will be completed by the end of March. Work on construction of the underground cable between Via Nomentana and Villa Borghese are included in the Memorandum of Understanding for the modernisation of the Rome electricity grid signed, in March last year, by Terna, the Municipality of Rome and Lazio Regional Authority. The agreement provides for the construction of four completely underground cable connections, making a total of approximately 25 km from the “Laurentina” primary substation to the “Flaminia” primary substation. The total investment amounts to over €60 million.

## 2023 Development Plan for the national transmission grid presented

The **2023 Development Plan** for the national transmission grid was presented on **15 March 2023**: investment of over €21 billion in the next 10 years, 17% up on the previous Plan, with the aim of accelerating the energy transition, enable the country's decarbonisation, reduce Italy's dependence on overseas sources of energy and make the Italian electricity system more environmentally sustainable. Taking into account total investment in strategic infrastructure over the entire life of the assets, which goes beyond the ten-year period, the figure rises to more than €30 billion. The new Plan drawn up by the Company chaired by Valentina Bosetti and led by Stefano Donnarumma was presented today during a press conference attended by Gilberto Pichetto Fratin, Minister of the Environment and Energy Security, and Stefano Besseghini, President of ARERA, the Italian Regulatory Authority for Energy, Networks and the Environment. The main new feature introduced by the 2023 Development Plan is the Hypergrid network, which will leverage the technologies of the HVDC (High Voltage Direct Current) transmission system to achieve the energy transition and security targets. In addition to the development projects that have already been announced, Terna has planned five new electricity backbones designed to integrate renewable energy capacity, backed by investment totalling €11 billion. The project involves a major modernisation of the existing power lines on the Tyrrhenian and Adriatic backbones on the mainland and towards the islands, and - a first for the Company - the construction of new 500kV undersea connections. With the Hypergrid it will be possible to double the exchange capacity between market areas from the current 16 GW to over 30 GW. Development of the direct current backbones will also minimise land use and the impact on the landscape. The projects planned by Terna will make a significant contribution to achieving the targets set at European level in the "Fit-for-55" package of measures, which aims to achieve a 55% reduction in CO<sub>2</sub> emissions by 2030 compared to 1990 levels. In Italy, renewable energy will need to cover at least 65% of final consumption in the electricity sector by 2030, compared to the 55% initially set out in the National Integrated Energy and Climate Plan (PNIEC), making a total of 70 GW of additional capacity.

# Disclosure

## pursuant to art. 149-*duodecies* of the CONSOB Regulations for Issuers

The following table, prepared pursuant to art. 149-*duodecies* of the CONSOB Regulations for Issuers, shows the fees paid for audit and other services provided to the Terna Group by the Parent Company's independent auditors and the network of the Parent Company's independent auditors in 2022.

	ENTITY PROVIDING SERVICE	FEES DUE FOR THE YEAR
Audit of the accounts and financial statements	Parent Company's auditor	480,864
Attestation and other services <sup>11</sup>	Parent Company's auditor	123,422
Audit of the accounts and financial statements	Network of the Parent Company's auditor	189,586
<b>Total</b>		<b>793,872</b>

(€)

<sup>11</sup> Attestation and other services include the services linked to the audit of the regulatory accounts, the opinion on the distribution of interim dividends, the limited review of the Non-financial Statement, the limited assurance for the Green Bond Report and Comfort Letters for bonds.





# Attestation

of the consolidated financial statements pursuant to  
art. 81-*ter* of CONSOB Regulation 11971 of 14 May 1999,  
as amended

“Terna Group”

1. The undersigned, Stefano Antonio Donnarumma, as Chief Executive Officer, and Agostino Scornajenchi, as Manager responsible for Terna SpA's financial reporting, having also taken account of the provisions of art. 154-bis, paragraphs 3 and 4 of Legislative Decree 58 of 24 February 1998, attest to:
  - the adequacy with regard to the nature of the Company, and
  - the effective application of the administrative and accounting procedures adopted in preparation of the consolidated financial statements during the year ended 31 December 2022.
2. The administrative and accounting procedures adopted in preparation of the consolidated financial statements for the year ended 31 December 2022 were drawn up, and their adequacy assessed, on the basis of the regulations and methods adopted by Terna SpA in accordance with the Internal Control–Integrated Framework model issued by the Committee of Sponsoring Organizations of the Treadway Commission. This Commission has established a body of general principles providing a standard for internal control and risk management systems that is generally accepted at international level.
3. We also attest that:
  - 3.1 the consolidated financial statements for the year ended 31 December 2022:
    - a. have been prepared in compliance with the International Financial Reporting Standards endorsed by the European Union through EC Regulation 1606/2002, issued by the European Parliament and by the Council on 19 July 2002 and the statutory requirements implementing the provisions of art. 9 of Legislative Decree 38/2005;
    - b. are consistent with the underlying accounting books and records;
    - c. provide a true and fair view of the financial position and results of operations of the issuer and the companies included in the scope of consolidation.
  - 3.2 the Directors' report on operations includes a reliable analysis of the operating and financial performance and situation of the issuer and the companies included in the scope of consolidation, as well as a description of the main risks and uncertainties to which they are exposed.

Rome, 22 March 2023

Chief Executive Officer  
**Stefano Antonio Donnarumma**

*(original signed)*

Manager responsible for financial reporting  
**Agostino Scornajenchi**

*(original signed)*



# Independent Auditor's Report

pursuant to articles 14 of Legislative Decree 39 of 27  
January 2010 and article 10 of Regulation (EU) 537/2014 -  
Consolidated financial statements for the year ended  
31 December 2022

INDEPENDENT AUDITOR'S REPORT  
PURSUANT TO ARTICLE 14 OF LEGISLATIVE DECREE No. 39 OF JANUARY 27, 2010  
AND ARTICLE 10 OF THE EU REGULATION 537/2014

To the Shareholders of  
Terna S.p.A.

## REPORT ON THE AUDIT OF THE CONSOLIDATED FINANCIAL STATEMENTS

### Opinion

We have audited the consolidated financial statements of Terna group (the "Group"), which comprise the statement of financial position as at 31 December 2022, the income statement, the statement of comprehensive income, the statement of changes in equity and the statement of cash flows for the year then ended, and notes to the consolidated financial statements, including a summary of significant accounting policies.

In our opinion, the accompanying consolidated financial statements give a true and fair view of the consolidated financial position of the Group as at 31 December 2022, and of its consolidated financial performance and its consolidated cash flows for the year then ended in accordance with International Financial Reporting Standards as adopted by the European Union and the requirements of national regulations issued pursuant to art. 9 of Italian Legislative Decree no. 38/05.

### Basis for Opinion

We conducted our audit in accordance with International Standards on Auditing (ISA Italia). Our responsibilities under those standards are further described in the *Auditor's Responsibilities for the Audit of the Consolidated Financial Statements* section of our report. We are independent of Terna S.p.A. (the "Company") in accordance with the ethical requirements applicable under Italian law to the audit of the financial statements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

### Key Audit Matters

Key audit matters are those matters that, in our professional judgment, were of most significance in our audit of the consolidated financial statements of the current period. These matters were addressed in the context of our audit of the consolidated financial statements as a whole, and in forming our opinion thereon, and we do not provide a separate opinion on these matters.

*Investments for the operation and development of the electricity transmission grid, relevant for the purposes of determining the transmission and dispatching activities charges*

**Description of the key audit matter** As of 31 December 2022, the Group accounts in “Property, Plant, and Equipment” and “Intangible Assets”, respectively equal to Euro 16.201 million and Euro 524 million, the amounts mainly related to investments made for operation and development of the Italian national transmission grid (NTG) for high and extra-high voltage power. Investments made in the financial year relating to these items totalled Euro 1.757 million.

The Group operates as a natural monopoly and within a market regulated by the Italian Regulatory Authority for Energy, Networks and Environment (Autorità di Regolazione per Energia Reti e Ambiente, “ARERA”), which defines, among the others, the rules for the remuneration of the transmission and dispatching services. In particular, the regulated revenues for these services are determined annually by ARERA and provide for recognition of a predefined return on the regulatory net invested capital recognized (RAB – Regulated Asset Base), of the relative depreciation and of some operating expenses. The RAB value is determined by ARERA mainly through the revalued historical cost method.

We believe that investments for the operation and development of the electricity transmission grid represent a key audit matter for the Group's consolidated financial statements as of 31 December 2022 due to: i) the relevance of the tangible and intangible assets related to operation and development of the electricity transmission grid compared to the Group's total assets, ii) the relevance of the investments made during the year, iii) their impact in determining the fees for the transmission and dispatching services.

Notes “13. Property, Plant, and Equipment ” and “15. Intangible Assets” of the consolidated financial statements include the disclosure on the investments for the operation and development of the electricity transmission grid.

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**Audit procedures performed** With reference to investments for the operation and development of the electricity transmission grid, our audit procedures included, among the others, the following:

- understand the processes for recognition of such investments in the financial statements;
- understand the relevant controls implemented by the Group in relation to these processes and assessment of their operating effectiveness;

- comparative analysis of the items “Property, Plant, and Equipment” and “Intangible Assets”, as well as critical analysis of the composition of investments made during the year related to these items, including the analysis of any unusual item;
- with reference to investments occurred during the year, selection of a sample of transactions and test of the compliance with the capitalization criteria provided by accounting standards;
- test the accurate start of depreciation when the asset is available for use for a sample of assets recorded within tangible and intangible assets entered into depreciation during the year, also through the analysis of their ageing;
- test the correct application of the depreciation rate with respect to the asset category and recalculation of the amortisation and depreciation for the year.

Finally, we assessed the adequacy of the disclosure provided in the notes to the consolidated financial statements and its compliance with the accounting standards.

#### **Responsibilities of the Directors and the Board of Statutory Auditors for the Consolidated Financial Statements**

The Directors are responsible for the preparation of consolidated financial statements that give a true and fair view in accordance with International Financial Reporting Standards as adopted by the European Union and the requirements of national regulations issued pursuant to art. 9 of Italian Legislative Decree no. 38/05, and, within the terms established by law, for such internal control as the Directors determine is necessary to enable the preparation of consolidated financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the consolidated financial statements, the Directors are responsible for assessing the Group’s ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless they have identified the existence of the conditions for the liquidation of the Company or the termination of the business or have no realistic alternatives to such choices.

The Board of Statutory Auditors is responsible for overseeing, within the terms established by law, the Group’s financial reporting process.

#### **Auditor’s Responsibilities for the Audit of the Consolidated Financial Statements**

Our objectives are to obtain reasonable assurance about whether the consolidated financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor’s report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with International Standards on Auditing (ISA Italia) will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and

are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these consolidated financial statements.

As part of an audit in accordance with International Standards on Auditing (ISA Italia), we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the consolidated financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Group's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by the Directors.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Group's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the consolidated financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the Group to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the consolidated financial statements, including the disclosures, and whether the consolidated financial statements represent the underlying transactions and events in a manner that achieves fair presentation.
- Obtain sufficient appropriate audit evidence regarding the financial information of the entities or business activities within the Group to express an opinion on the consolidated financial statements. We are responsible for the direction, supervision and performance of the group audit. We remain solely responsible for our audit opinion.

We communicate with those charged with governance, identified at an appropriate level as required by ISA Italia, regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

We also provide those charged with governance with a statement that we have complied with relevant ethical requirements regarding independence applicable in Italy, and to communicate with them all relationships and other matters that may reasonably be thought to bear on our independence, and where applicable, actions taken to eliminate threats or safeguards applied.



From the matters communicated with those charged with governance, we determine those matters that were of most significance in the audit of the consolidated financial statements of the current period and are therefore the key audit matters. We describe these matters in our auditors' report.

#### **Other information communicated pursuant to art. 10 of the EU Regulation 537/2014**

The Shareholders' Meeting of Terna S.p.A. has appointed us on 8 May 2019 as auditors of the Company for the years from 31 December 2020 to 31 December 2028.

We declare that we have not provided prohibited non-audit services referred to in art. 5 (1) of EU Regulation 537/2014 and that we have remained independent of the Company in conducting the audit.

We confirm that the opinion on the financial statements expressed in this report is consistent with the additional report to the Board of Statutory Auditors, in its role of Audit Committee, referred to in art. 11 of the said Regulation.

#### **REPORT ON OTHER LEGAL AND REGULATORY REQUIREMENTS**

##### **Opinion on the compliance with the provisions of the Delegated Regulation (EU) 2019/815**

The Directors of Terna S.p.A. are responsible for the application of the provisions of the European Commission Delegated Regulation (EU) 2019/815 with regard to the regulatory technical standards on the specification of the single electronic reporting format (ESEF – European Single Electronic Format) (hereinafter referred to as the "Delegated Regulation") to the consolidated financial statements as at 31 December 2022, to be included in the annual financial report.

We have carried out the procedures set forth in the Auditing Standard (SA Italia) n. 700B in order to express an opinion on the compliance of the consolidated financial statements with the provisions of the Delegated Regulation.

In our opinion, the consolidated financial statements as at 31 December 2022, have been prepared in XHTML format and have been marked up, in all material respects, in accordance with the provisions of the Delegated Regulation.

Due to certain technical limitations, some information contained in the illustrative notes to the consolidated financial statements, when extracted from XHTML format in an XBRL instance, may not be reproduced in the same way as the corresponding information displayed in the consolidated financial statements in XHTML format.

##### **Opinion pursuant to art. 14 paragraph 2 (e) of Legislative Decree 39/10 and art. 123-bis, paragraph 4, of Legislative Decree 58/98**

The Directors of Terna S.p.A. are responsible for the preparation of the report on operations and the report on corporate governance and the ownership structure of Terna Group as at 31 December 2022, including their consistency with the related consolidated financial statements and their compliance with the law.

We have carried out the procedures set forth in the Auditing Standard (SA Italia) n. 720B in order to express an opinion on the consistency of the report on operations and some specific information contained in the report on corporate governance and the ownership structure set forth in art. 123-bis, n. 4 of Legislative Decree 58/98, with the consolidated financial statements of Terna Group as at 31 December 2022 and on their compliance with the law, as well as to make a statement about any material misstatement.

In our opinion, the above-mentioned report on operations and some specific information contained in the report on corporate governance and the ownership structure are consistent with the consolidated financial statements of Terna Group as at 31 December 2022 and are prepared in accordance with the law.

With reference to the statement referred to in art. 14, paragraph 2 (e), of Legislative Decree 39/10, made on the basis of the knowledge and understanding of the entity and of the related context acquired during the audit, we have nothing to report.

Statement pursuant to art. 4 of the Consob Regulation for the implementation of Legislative Decree 30 December 2016, no. 254

The Directors of Terna S.p.A. are responsible for the preparation of the non-financial statement pursuant to Legislative Decree 30 December 2016, no. 254.

We verified the approval by the Directors of the non-financial statement.

Pursuant to art. 3, paragraph 10 of Legislative Decree 30 December 2016, no. 254, this statement is subject of a separate attestation issued by us.

DELOITTE & TOUCHE S.p.A.

Signed by  
**Domenico Falcone**  
Partner

Rome, Italy  
April 17, 2023

*This independent auditor's report has been translated into the English language solely for the convenience of international readers. Accordingly, only the original text in Italian language is authoritative.*







**SEPARATE FINANCIAL  
STATEMENTS**



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# Financial statements

## Income statement of Terna S.p.A.

(€)

	NOTE	2022	2021
<b>A - REVENUE</b>			
1. Revenue from sales and services	1	2,459,716,731	2,146,811,627
<i>of which: related parties</i>		1,701,200,000	1,757,378,433
2. Other revenue and income	2	60,771,937	77,270,263
<i>of which: related parties</i>		33,058,251	31,267,339
<b>Total revenue</b>		<b>2,520,488,668</b>	<b>2,224,081,890</b>
<b>B - OPERATING COSTS</b>			
1. Raw and consumable materials used	3	6,369,068	5,976,243
<i>of which: related parties</i>		4,317	2
2. Services	4	482,977,197	411,931,685
<i>of which: related parties</i>		396,569,826	350,578,841
3. Personnel expenses	5	102,351,580	76,342,716
- gross personnel expenses		116,841,972	88,448,387
- capitalised personnel expenses		(14,490,392)	(12,105,671)
<i>of which: related parties</i>		1,212,603	1,096,829
4. Amortisation, depreciation and impairment losses	6	650,291,846	585,810,876
5. Other operating costs	7	21,946,270	23,028,603
<i>of which: related parties</i>		76,572	68,501
<b>Total costs</b>		<b>1,263,935,961</b>	<b>1,103,090,123</b>
<b>A-B OPERATING PROFIT/(LOSS)</b>		<b>1,256,552,707</b>	<b>1,120,991,767</b>
<b>C - FINANCIAL INCOME/(EXPENSES)</b>			
1. Financial income	8	38,576,427	14,360,043
<i>of which: related parties</i>		14,171,302	436,302
2. Financial expenses	8	(125,644,106)	(92,772,644)
<i>of which: related parties</i>		7,884,814	(20,867)
<b>D - PROFIT/(LOSS) BEFORE TAX</b>		<b>1,169,485,028</b>	<b>1,042,579,166</b>
<b>E - INCOME TAX EXPENSE</b>	9	<b>334,802,306</b>	<b>297,665,547</b>
<b>F - PROFIT/(LOSS) FOR THE YEAR FROM CONTINUING OPERATIONS</b>		<b>834,682,722</b>	<b>744,913,619</b>
<b>G - PROFIT/(LOSS) FOR THE YEAR FROM DISCONTINUED OPERATIONS AND ASSETS HELD FOR SALE</b>	10	<b>(544,018)</b>	<b>(9,665,093)</b>
<b>H - PROFIT FOR THE YEAR</b>		<b>834,138,704</b>	<b>735,248,526</b>



## Statement of comprehensive income of Terna S.p.A.\*

(€)

	NOTE	2022	2021
<b>PROFIT FOR THE YEAR</b>		<b>834,138,704</b>	<b>735,248,526</b>
Other comprehensive income for the year reclassifiable to profit or loss			
- Cash flow hedge	21	222,870,545	74,275,418
- Financial assets at fair value through other comprehensive income	21	(4,364,155)	(2,974,000)
- Cost of hedges	21	(603,150)	350,773
Other comprehensive income for the year not reclassifiable to profit or loss			
- Actuarial gains/(losses) on provisions for employee benefits	21	1,398,106	825,777
<b>COMPREHENSIVE INCOME FOR THE YEAR</b>		<b>1,053,440,050</b>	<b>807,726,494</b>

\* Amounts are shown net of tax, where applicable.

## Statement of financial position of Terna S.p.A.

(€)

	NOTE	31 DECEMBER 2022	31 DECEMBER 2021
<b>A – NON-CURRENT ASSETS</b>			
1. Property, plant and equipment	11	14,252,842,069	13,447,430,700
<i>of which: related parties</i>		121,293,597	160,872,604
2. Goodwill	12	190,228,231	190,228,231
3. Intangible assets	13	478,476,472	353,625,748
4. Deferred tax assets	14	69,861,565	109,342,277
5. Non-current financial assets	15	1,636,686,066	1,415,091,938
6. Other non-current assets	16	7,923,963	6,361,704
<i>of which: related parties</i>		2,800,167	1,415,511
<b>Total non-current assets</b>		<b>16,636,018,366</b>	<b>15,522,080,598</b>
<b>B – CURRENTS ASSETS</b>			
1. Trade receivables	17	2,179,392,711	2,633,333,626
<i>of which: related parties</i>		343,259,089	309,176,439
2. Current financial assets	15	255,177,882	980,574,975
3. Cash and cash equivalents	18	2,202,562,495	1,619,814,640
<i>of which: related parties</i>		172,981,760	137,693,625
4. Income tax assets	19	3,277,022	3,454,116
<i>of which: related parties</i>		23,050,708	26,421,752
5. Other current assets	16	53,590,269	21,018,618
<b>Total current assets</b>		<b>4,694,000,379</b>	<b>5,258,195,975</b>
<b>C- Discontinued operations and assets held for sale</b>	<b>20</b>	<b>-</b>	<b>23,044,212</b>
<b>TOTAL ASSETS</b>		<b>21,330,018,745</b>	<b>20,803,320,785</b>

(€)

	NOTE	31 DECEMBER 2022	31 DECEMBER 2021
<b>D – EQUITY</b>			
1. Share capital		442,198,240	442,198,240
2. Other reserves		1,888,190,860	684,132,325
3. Retained earnings/(accumulated losses)		2,794,828,077	2,665,343,879
4. Interim dividend		(213,260,151)	(197,381,214)
5. Profit for the year		834,138,704	735,248,526
<b>Total equity</b>	<b>21</b>	<b>5,746,095,730</b>	<b>4,329,541,756</b>
<b>E – NON-CURRENT LIABILITIES</b>			
1. Long-term borrowings	22	8,372,355,904	8,813,900,637
2. Employee benefits	23	10,330,998	12,320,918
3. Provisions for risks and charges	24	97,382,471	104,626,447
4. Non-current financial liabilities	22	247,170,043	83,661,191
5. Other non-current liabilities	25	397,089,647	346,621,805
<i>of which: related parties</i>		25,323,200	27,325,796
<b>Total non-current liabilities</b>		<b>9,124,329,063</b>	<b>9,361,130,998</b>
<b>F – CURRENT LIABILITIES</b>			
1. Short-term borrowings	22	419,496,075	1,917,570,334
2. Current portion of long-term borrowings	22	1,895,331,276	1,634,927,207
3. Trade payables	26	3,515,917,931	3,090,931,401
<i>of which: related parties</i>		722,369,117	627,816,091
4. Tax expense	26	50,819,421	33,912,907
5. Current financial liabilities	22	44,851,810	45,708,530
6. Other current liabilities	26	533,177,439	389,597,652
<i>of which: related parties</i>		18,776,726	12,566,139
<b>Total current liabilities</b>		<b>6,459,593,952</b>	<b>7,112,648,031</b>
<b>TOTAL LIABILITIES AND EQUITY</b>		<b>21,330,018,745</b>	<b>20,803,320,785</b>

# Statement of changes in equity

31 December 2021 - 31 December 2022

Share Capital and Reserves of Terna S.p.A.

(€m)

	SHARE CAPITAL	LEGAL RESERVE	SHARE PREMIUM RESERVE	CASH FLOW HEDGE RESERVE	RESERVE FOR TREASURY SHARES	RESERVE FOR EQUITY INSTRUMENTS - PERPETUAL HYBRID BONDS	OTHER RESERVES	RETAINED EARNINGS/ (ACCUMULATED LOSSES)	INTERIM DIVIDEND	PROFIT FOR THE YEAR	EQUITY
<b>EQUITY AT 31 DECEMBER 2021</b>	442.2	88.4	20.0	(140.4)	(19.5)		735.6	2,665.4	(197.4)	735.2	4,329.5
<b>PROFIT FOR THE YEAR</b>										834.1	834.1
<b>OTHER COMPREHENSIVE INCOME:</b>											
- Change in fair value of cash flow hedges				222.9							222.9
- Financial assets at fair value through other comprehensive income							(4.4)				(4.4)
- Cost of hedges				(0.6)							(0.6)
- Actuarial gains/(losses) on employee benefits							1.4				1.4
<b>Total other comprehensive income</b>				222.3			(3.0)				219.3
<b>COMPREHENSIVE INCOME</b>				222.3			(3.0)			834.1	1,053.4
<b>TRANSACTIONS WITH SHAREHOLDERS:</b>											
- Appropriation of profit for 2021											
- Retained earnings								150.1		(150.1)	
- Dividends									197.4	(585.1)	(387.7)
- Interim dividend 2022									(213.3)		(213.3)
- Purchase of treasury shares					(10.0)						(10.0)
<b>Total transactions with shareholders</b>					(10.0)			150.1	(15.9)	(735.2)	(611.0)
Share option reserve							5.8				5.8
Equity instruments – Perpetual hybrid bonds						989.0					989.0
Coupon payable to holders of hybrid bonds								(21.1)			(21.1)
Other changes								0.5			0.5
<b>Total other changes</b>						989.0	5.8	(20.6)			974.2
<b>EQUITY AT 31 DECEMBER 2022</b>	442.2	88.4	20.0	81.9	(29.5)	989.0	738.4	2,794.9	(213.3)	834.1	5,746.1

### 31 December 2020 - 31 December 2021

#### Share Capital and Reserves of Terna S.p.A.

(€m)

	SHARE CAPITAL	LEGAL RESERVE	SHARE PREMIUM RESERVE	CASH FLOW HEDGE RESERVE	RESERVE FOR TREASURY SHARES	OTHER RESERVES	RETAINED EARNINGS/ (ACCUMULATED LOSSES)	INTERIM DIVIDEND	PROFIT FOR THE YEAR	EQUITY
<b>EQUITY AT 31 DECEMBER 2020</b>	<b>442.2</b>	<b>88.4</b>	<b>20.0</b>	<b>(215.1)</b>	<b>(9.5)</b>	<b>733.8</b>	<b>2,518.9</b>	<b>(182.7)</b>	<b>687.6</b>	<b>4,083.6</b>
<b>PROFIT FOR THE YEAR</b>									<b>735.2</b>	<b>735.2</b>
<b>OTHER COMPREHENSIVE INCOME:</b>										
- Change in fair value of cash flow hedges				74.3						74.3
- Financial assets at fair value through other comprehensive income						(3.0)				(3.0)
- Cost of hedges				0.4						0.4
- Actuarial gains/(losses) on employee benefits						0.8				0.8
<b>Total other comprehensive income</b>				<b>74.7</b>		<b>(2.2)</b>				<b>72.5</b>
<b>COMPREHENSIVE INCOME</b>				<b>74.7</b>		<b>(2.2)</b>			<b>735.2</b>	<b>807.7</b>
<b>TRANSACTIONS WITH SHAREHOLDERS:</b>										
Appropriation of profit for 2020										
- Retained earnings							145.9		(145.9)	
- Dividends								182.7	(541.7)	(359.0)
Interim dividend 2021								(197.4)		(197.4)
Purchase of treasury shares					(10.0)					(10.0)
<b>Total transactions with shareholders</b>					<b>(10.0)</b>		<b>145.9</b>	<b>(14.7)</b>	<b>(687.6)</b>	<b>(566.4)</b>
Share option reserve						4.0				4.0
Other changes							0.6			0.6
<b>Total other changes</b>						<b>4.0</b>	<b>0.6</b>			<b>4.6</b>
<b>EQUITY AT 31 DICEMBRE 2021</b>	<b>442.2</b>	<b>88.4</b>	<b>20.0</b>	<b>(140.4)</b>	<b>(19.5)</b>	<b>735.6</b>	<b>2,665.4</b>	<b>(197.4)</b>	<b>735.2</b>	<b>4,329.5</b>

## Statement of cash flow

(€m)

	NOTE	2022	2021
<b>PROFIT FOR THE YEAR</b>		<b>834.1</b>	<b>735.2</b>
<b>ADJUSTED BY:</b>			
Amortisation, depreciation and impairment losses /(reversals of impairment losses) on non-current property, plant and equipment and intangible assets*		639.5	589.4
Accruals to provisions (including provisions for employee benefits) and impairment losses		27.8	18.7
(Gains)/Losses on sale of property, plant and equipment		(5.9)	(12.6)
Financial (income)/expense	8	88.9	79.9
Income tax expense	9	334.8	297.7
Other non-cash movements	21	5.8	4.0
<b>CASH FLOW FROM OPERATING ACTIVITIES BEFORE CHANGES IN NET WORKING CAPITAL</b>		<b>1,925.0</b>	<b>1,712.3</b>
Increase/(decrease) in provisions (including provisions for employee benefits and taxation)		(35.5)	(56.1)
(Increase)/decrease in trade receivables and other current assets		421.7	(1,528.9)
Increase/(decrease) in trade payables and other current liabilities		541.4	1,312.2
(Increase)/decrease in other non-current assets		76.6	(10.8)
Increase/(decrease) in other non-current liabilities		(155.0)	(59.3)
Interest income and other financial income received		62.6	51.6
Dividends collected	8	11.9	-
Interest expense and other financial expenses paid		(152.2)	(209.0)
Income tax paid		(344.8)	(285.5)
<b>CASH FLOW FROM OPERATING ACTIVITIES [A]</b>		<b>2,351.7</b>	<b>926.5</b>
of which: related parties		31.4	(211.2)
Purchase of non-current property, plant and equipment after grants collected	11	(1,358.1)	(1,206.1)
Proceeds from the sale of non-current property, plant and equipment and other movements		11.7	(0.1)
Purchase of non-current intangible assets	13	(210.7)	(128.3)
Intercompany (additions)/sales of property, plant and equipment		(16.5)	0.1
Capitalised financial expenses		24.8	10.8
(Increase)/decrease in investments		(0.5)	(5.4)
Movements in short- and medium/long-term financial investments		(350.5)	600.0
Proceeds from sale of companies		27.4	-
<b>CASH FLOW FOR INVESTING ACTIVITIES [B]</b>		<b>(1,872.4)</b>	<b>(729.0)</b>
of which: related parties		39.6	(44.3)
Movement in reserve for treasury shares	21	(10.0)	(10.0)
Movement in reserve for equity instruments	21	989.0	-
Dividends paid		(592.4)	(546.7)
Movements in short- and medium/long-term financial liabilities (including short-term portion)**		(283.1)	(472.9)
<b>CASH FLOW FROM/(FOR) FINANCING ACTIVITIES [C]</b>		<b>103.5</b>	<b>(1,029.6)</b>
<b>INCREASE/(DECREASE) IN CASH AND EQUIVALENTS [A+B+C]</b>		<b>582.8</b>	<b>(832.1)</b>
Cash and cash equivalents at beginning of year		1,619.8	2,451.9
Cash and cash equivalents at end of year		2,202.6	1,619.8

\* After grants related to assets recognised in the income statement for the year.

\*\* After derivatives and impact of fair value adjustments, including cash movements in right-of-use assets.



# Notes

## A. Accounting policies and measurement criteria

### Introduction

Terna S.p.A., which provides electricity transmission and dispatching services, is a joint-stock company and its registered office is at Viale Egidio Galbani 70, Rome, Italy.

Publication of the separate financial statements was authorised by the Board of Directors on 22 March 2023.

The separate financial statements at and for the year ended 31 December 2022 are available for inspection on request at Terna S.p.A.'s registered office at Viale Egidio Galbani 70, Rome, or on the Company's website at [www.terna.it](http://www.terna.it).

The Board of Directors has authorised the Chairwoman and the Chief Executive Officer to make any alterations to the form of the financial statements that may be necessary during preparation of the final text to be presented to the Annual General Meeting, and to make any additions and adjustments to the sections concerning significant subsequent events. As of the financial statements for the year ended 31 December 2021, Terna has complied with the requirement introduced by the European Transparency Directive and publishes its Annual Report using the xhtml format, tagging all the numbers in the consolidated financial statements and the issuer's basic financial information using the ixbrl format. In addition, as of 31 December 2022, all the notes to the consolidated financial statements have been block tagged.

### Compliance with IAS/IFRS

The separate financial statements have been prepared in accordance with International Financial Reporting Standards (IFRS), International Accounting Standards (IAS) issued by the International Accounting Standards Board (IASB) and the interpretations of the International Financial Reporting Interpretations Committee (IFRIC) and the Standing Interpretations Committee (SIC), as endorsed by the European Commission ("IFRS").

This document has also been prepared taking into account the provisions of Legislative Decree 38 of 28 February 2005 of the Italian Civil Code and CONSOB Resolutions 15519 ("Provisions governing financial statements in implementation of art. 9, paragraph 3 of Legislative Decree 38/2005") and 15520 ("Amendments to the implementing rules for Legislative Decree 58/1998"), as well as CONSOB Communication DEM/6064293 ("Disclosure requirements for listed issuers and issuers of financial instruments that are widely held among the public pursuant to art. 116 of the Consolidated Law on Finance").

The separate financial statements have been prepared on a historical cost basis, with the exception of certain financial instruments, and on a going concern basis.

### Basis of presentation

The separate financial statements consist of the statement of financial position, the income statement, the statement of comprehensive income, the statement of changes in equity, the statement of cash flows and the notes thereto.

In the statement of financial position, assets and liabilities are classified on a "current/non-current" basis, with separate reporting of assets and liabilities held for sale. Current assets, which include cash and cash equivalents, are those held for realisation, sale or consumption in the Company's normal operating cycle; current liabilities are those expected to be settled in the Company's normal operating cycle or within one year of the end of the financial year.



The income statement is classified on the basis of the nature of costs. The income statement is presented as two statements, the first of which (the income statement) presents revenue and expense items for the year; the second (the statement of comprehensive income) starts with the result for the year and then presents the revenue and expense items that are recognised in equity rather than profit or loss for the year.

The statement of cash flows has been prepared using the indirect method.

The separate financial statements are accompanied by the Integrated Report for Terna S.p.A. and the Group, which as from financial year 2008 have been prepared as a single document, exercising the option granted by Legislative Decree 32 of 2 February 2007, which amended art. 40 (Report on Operations) of Legislative Decree 127 of 9 April 1991. From 2021, the Terna Group's Annual Financial Report contains the Integrated Report, including in a single document the Report on Operations, the Sustainability Report and the Consolidated Non-financial Statement (the "NFS"), in addition to the consolidated financial statements and the Parent Company's separate financial statements.

The separate financial statements are presented in euros, whilst amounts in the statement of changes in equity, the statement of cash flows and these notes are presented in millions of euros to the first decimal place, unless otherwise stated.

The separate financial statements have been prepared on a historical cost basis, with the exception of certain items that, in accordance with IFRS, are recognised at fair value, as indicated in the measurement criteria for individual items.

Given that the requirements of IFRS 5 have been met, gains and losses for 2022 and 2021 on the investment in the Uruguayan subsidiary involved in the planned sale of assets have been classified in the item "Profit/(Loss) for the year from discontinued operations and assets held for sale" in the reclassified income statement. The Uruguayan subsidiary was sold on 22 December 2022.

Certain amounts in the financial statements at and for the year ended 31 December 2021 have been restated in order to provide an improved basis of comparison, without however modifying the amount of equity at 31 December 2021 or amounts in the income statement and statement of comprehensive income for 2021.

## Use of estimates

In application of IFRS, preparation of the statement of financial position and the income statement requires the Company to use estimates and assumptions that affect the carrying amounts of assets and liabilities and the related disclosures, in addition to contingent assets and liabilities at the reporting date. Estimates are based on the information available to management at the date of preparation of the financial statements. These estimates and the associated assumptions are based on previous experience and various factors that are believed to be reasonable under the circumstances. The resulting estimates form the basis for making the judgements about the carrying amounts of assets and liabilities that are not readily apparent from other objective sources. Actual results may differ from these estimates. The estimates and underlying assumptions are reviewed periodically and the effects of any changes are recognised in the income statement for the year, if they relate solely to that period. In the case that the revision affects both current and future years, the change is recorded in the year in which the estimate is reviewed as well as in the relevant future years.

The assets and liabilities subject to key estimates and assumptions used by the Company in applying the IFRS endorsed by the European Commission, and that could have a significant impact on the separate financial statements, or that could give rise to risks that would entail significant adjustments to the carrying amounts of assets and liabilities in subsequent years, are summarised below.

The assessment of external and systemic aspects are dealt with in an integrated manner at Group level. The Terna Group's considerations on the conflict in Ukraine, the macroeconomic environment and climate change are thus summarised below in a single note.

## Revenue related to incentives

Recognition in the financial statements of output-based incentives requires management to use estimates and assumptions based on judgements made using actual data and estimates of the quantity and likelihood of future events. In the case of incentive mechanisms where the performance obligation is satisfied over a period of time, the Group estimates how to allocate the reward in the period, estimating the potential for the return of all or part of the accrued amounts. The amount recognised as revenue in the accounting period is the amount that is most likely not to be returned in the future. The Group also evaluates, for each incentive mechanism, whether or not the right (or obligation) is subject to confirmation or verification by the regulator, ARERA.

If the mechanism includes a significant financial component, the Group determines a discount rate that takes into account the credit risk associated with the asset which, given the way in which the mechanisms work and the guarantees provided to Terna under the regulatory framework, broadly coincides with the electricity system.

Certain incentive mechanisms may result in penalties for underperformance.

## Impairment losses

Property, plant and equipment and intangible assets with finite useful lives are tested at least once a year to check for evidence of impairment. If there is evidence that an asset may be impaired, its recoverable amount is estimated.

The recoverable amount of goodwill and intangible assets with indefinite useful lives, where present, as well as intangible assets not yet available for use, is estimated at least annually. The recoverable amount is equal to the greater of the fair value less costs to sell and value in use. Value in use is measured by discounting estimated future cash flows considering information available at the time of estimate and on the basis of estimates of the performance of future variables, such as prices, costs, demand growth rates, production profiles, and discounted at a pre-tax rate that reflects current market assessments of the time value of money for the investment period and risks specific to the asset. If the intangible asset does not generate cash inflows that are largely independent, the asset's recoverable amount is calculated as part of the Cash Generating Unit ("CGU") to which it belongs.

An impairment loss is recognised in the income statement when the asset's carrying amount, or the net invested capital of the CGU to which it belongs, is greater than its recoverable amount.

Impairment losses on CGUs are first taken as a reduction in the carrying amount of any allocated goodwill and then as a reduction in other assets allocated to the CGU on a pro rata basis. Except for goodwill, impairment losses may be reversed up to the recoverable amount or the original cost of the asset if there is an indication that the impairment loss no longer exists or when there is a change in the methods used to measure the recoverable amount.

## Allowance for doubtful accounts

Trade receivables are initially recognised at fair value net of any losses relating to sums considered non-recoverable, for which specific provisions have been made in the allowance for doubtful accounts.

Credit losses are determined in application of IFRS 9 (a model based on expected credit losses). This requires the Company to assess expected credit losses, and the related changes, at each reporting date.

Specifically, the Company has applied the simplified approach permitted by IFRS 9 to trade receivables, finance lease receivables and assets deriving from contracts with customers, in order to measure the allowance for doubtful accounts based on expected losses over the life of the receivable. The Company has thus determined the amount of expected credit losses using a provisioning matrix, based on information regarding historical credit losses for similar past due exposures, adjusted to take into account current conditions and forward-looking elements.

## Provisions for risks and charges

Provisions for risks and charges are allocated when a disbursement of cash, for an amount which can be reliably estimated, will be necessary to fulfil a legal or constructive obligation arising as a result of a past event.

Where the time value of money is significant, provisions are discounted, using a rate that the Company believes to be appropriate (a rate is used gross of taxes, which reflects current market conditions and the specific risks connected with the liability). After initial recognition, the value of the provisions for risks and charges is updated to reflect the passage of time and any changes in the estimate following alterations to the amounts forecast, the timing and the discount rates used. Any increase in provisions associated with the passage of time is recognised in the income statement under "Financial expenses".

Liabilities that can be associated with legal and tax disputes, early retirement incentives, urban and environmental restoration projects and other sundry charges are estimated by the Company. The measurement of provisions for legal disputes is based on the probability of incurring an expense, including through the use of external legal advisors supporting the Company; the estimate of provisions to be set aside for urban and environmental restoration projects, the offsets aimed at compensating for the environmental impact of the construction of new infrastructure, is based on an analysis of the agreements entered into with the local authorities concerned and the progress of work on construction of the new infrastructure.

## Employee benefits

Post-employment benefits are defined on the basis of plans, even if not formalised, that based on their nature are classified as either “defined benefit” plans or “defined contribution” plans.

The liability for employee benefits paid upon or following termination of employment in relation to defined benefit plans or other long-term benefits is recognised net of any plan assets and is measured on the basis of actuarial assumptions, estimating the amount of future benefits that employees have vested at the reporting date and is recognised on an accruals basis in line with the period of service necessary to obtain the benefit.

Changes in the value of the net liabilities (revaluations) deriving from actuarial gains or losses, resulting from changes in the actuarial assumptions used or adjustments based on past experience, are recognised in other comprehensive income in the year in which they occur. If a plan is modified, curtailed or extinguished, the related effects are recognized in profit or loss.

Net financial expenses include the component of the return on plan assets and the interest cost to be recognised in profit or loss and are measured by multiplying the liabilities, net of any plan assets, by the discount rate applied to the liabilities; net interest on defined benefit plans is recognized in “Financial income/(expenses)”.

The actuarial valuations used to quantify employee benefits (of all plans except termination benefits or *TFR*) were based on “vested benefits”, applying the projected “unit credit method”. These valuations are based on economic and demographic assumptions: the discount rate (used to determine the present value of the obligation, determined considering returns on high quality bonds in line with the duration of the group of workers measured), the inflation rate, the rate at which future salary levels are expected to rise, the rate of increase for average health reimbursements, rate of increase for electricity prices and demographic factors, such as mortality and invalidity, retirement, resignation, advances and household composition. The method of calculation used for *TFR* consists of discounting to present value, at the measurement date, each estimated payment due to every employee, projected through to the estimated period in which the *TFR* will be paid. The Company’s obligation under defined contribution plans, limited to the payment of contributions to the state or to a legally separate entity (a fund), is measured on the basis of the contributions payable. The cost of such plans is recognised in profit or loss based on the contribution paid during the period.

## Conflict between Russia and Ukraine and macroeconomic environment

The Terna Group has been closely monitoring the current macroeconomic environment and the recent international political events, particularly focusing on geopolitical developments and the relevant legislation.

In this respect, in its Public Statement of 28 October 2022, “European common enforcement priorities for 2022 annual financial reports”, ESMA highlighted the need to ensure the correct degree of transparency in financial reporting in order to adequately reflect the current and, as far as possible, foreseeable impact of the conflict on entities’ financial position, financial performance and cash flows.

Despite the current extremely volatile macroeconomic environment and slowing economic growth, marked by extremely high inflation at global level, monetary tightening by central banks (completely the opposite of the easing seen during Covid-19), rising interest rates, the geopolitical crisis caused by the ongoing conflict between Russia and Ukraine and continuing commodity market tensions, which are affecting the world’s ability to recover from the Covid-19 pandemic, the Group is continuing to focus on delivering on our “Driving Energy” 2021-2025 Industrial Plan. As a result, to date, we are not aware of any circumstances requiring an in-depth assessment of the validity of application of the going concern basis.

This assumption is based on the fact that the largest part of the Group's income is represented by revenue generated by Regulated Activities in Italy and that this revenue consists of remuneration to cover both operating and capital expenditure, with both components revised annually based on the performance of inflation and a deflator. In addition, the return on invested capital is based on a WACC that is periodically revised by ARERA to enable the parameters used in calculating the cost of equity and debt to be updated.

Assessment of the impact of the current macroeconomic environment and the conflict between Russia and Ukraine has not, moreover, resulted in trigger events requiring the conduct of an impairment test of the value of the property, plant and equipment owned by the Group or of intangible assets with finite useful lives.

With regard to the recoverable amount of property, plant and equipment and intangible assets with finite useful lives forming part of the RAB (regulated asset base), the assessment of expected future cash flows generated by these assets has shown that the macroeconomic effects of the conflict between Russia and Ukraine have not given rise to impacts constituting trigger events requiring the Group to test for impairment.

In addition, neither the impact of the changed macroeconomic environment or the conflict between Russia and Ukraine has resulted in an increase in credit risk and has not affected the outcome of the measurement of expected credit losses. The Group's trade receivables fall within the hold to collect business model, primarily fall due within 12 months and do not include a significant financial component. The effect of these events has not, therefore, had any impact, including with regard to the identified business model for financial instruments, thus avoiding any changes to the chosen classification.

In addition, fair value measurement of the financial assets and liabilities held by the Group has not undergone changes in terms of an increase in the related risks (market, liquidity and credit). Similarly, movements in the underlying assumptions have not altered the sensitivity analyses linked to their measurement.

In terms of recoverable amount, it should be noted that there has not been any deterioration in 2022 in the receivables due from the Group's main counterparties (dispatching customers for injections or for withdrawals and distributors), considered solvent by the market and therefore assigned high credit ratings.

As described in more detail in the section, "Credit risk", management of this risk is also driven by the provisions of ARERA Resolution 111/06, which introduced instruments designed to limit the risks related to the insolvency of dispatching customers, both on a preventive basis and in the event of an actual insolvency. The assessment conducted has, moreover, not provided evidence of the need to modify the model used following an evaluation of the impact of the conflict.

Terna is not exposed to any risk of greater contract expenses due to rising inflation or increased costs incurred as a result of rising commodity and energy prices and salaries, or to the possibility that, as an issuer of financial instruments, it is unable to pass such increases on by raising the prices of its own services or goods. This is because any price increases agreed by law are covered by tariff revisions, which envisage adjustments for inflation.

It should, moreover, be noted that Terna S.p.A. and its subsidiaries do not have offices or significant operations in the regions affected by the conflict.

## Climate change

Awareness of the progress of climate change and its effects has led to a growing need to provide disclosure in the Report on Operations. Although there is no international accounting standard governing how the impact of climate change should be taken into account in the preparation of financial statements, the IASB has issued certain documents providing support for IFRS-adopters seeking to satisfy the demand for disclosure from interested parties. Similarly,

ESMA, in its European Common Enforcement Priorities dated 28 October 2022, highlighted the need for issuers to consider climate risks when preparing their IFRS financial statements to the extent that such risks are material, regardless of whether or not this is explicitly required by the relevant accounting standards.

The Terna Group describes its considerations on the actions linked to the need to mitigate the impact of climate change primarily in the sections “Reference Scenario – Energy scenario” and “Opportunities and risks linked to climate change” in the Report on Operations. In these sections, as a TSO providing transmission and dispatching services, the Terna Group undoubtedly plays an active role in supporting the system in achieving the challenging targets linked to efforts to reduce CO2 emissions. Indeed, in addition to the emissions connected with electricity consumption, the most significant component relating to Terna's indirect emissions is linked to grid losses that in turn lead to the indirect need to produce CO2 to offset such losses with additional electricity. In themselves, a TSO's emissions (scopes 1 and 2 in the ‘GHG emission protocol’) are extremely modest when compared with the potential system-level reduction resulting from the integration of renewable sources and electrification.

## IAS 1 – Presentation of Financial Statements

In the event of uncertainties, IAS 1 requires entities to analyse potential impacts in terms of the entity's ability to continue as a going concern and, with regard to the assumptions and estimates made when preparing the financial statements. Entities are required to provide disclosure of the forward-looking estimates used and that have a significant risk of resulting in a material adjustment within the next financial year. As recommended by ESMA, which, as mentioned above, requires entities to take into account climate risks when preparing financial statements, disclosures are provided that, despite not being specifically required by IFRS, are relevant to an understanding of the financial statements.

In terms of the short term, management has not identified any specific effects of climate-related risks to be considered when applying the accounting standards.

With regard to the medium to long term, management has identified risks primarily linked to the Company's role as a TSO, deriving from the need to adapt the electricity grid in the form of work designed to boost resilience and allow it to handle the new profile and mix of the energy injected into the grid. However, as described in greater detail in the specific sections that follow, the steps planned with the aim of mitigating such risks do not require further consideration during application of the accounting standards used in preparation of these financial statements.

It should be noted, however, that assessment and, more specifically, quantification of climate-related risks generally requires the use of highly uncertain future-oriented assumptions, such as future technological and policy developments and Government measures.

## IAS 16 – Property, Plant and Equipment

With specific regard to the grid and the related transmission service, the action plan requires a commitment to the planning, approval and delivery of investment projects related to work in response to current and future needs to integrate renewable sources, guarantee the reliability, security, adequacy and efficiency of the electricity system, such as, for example, cross-border interconnections and the development of infrastructure to enable the growing integration of renewable energy sources.

In addition, as described in the Group's Risk Framework, the Group is exposed to the risks linked to the increased intensity of weather events (tornados, heavy snowfall, ice, flooding) with a resulting impact on the continuity and quality of the service provided by Terna and/or damage to equipment, machinery, infrastructure and the grid. In response, the Group continues to carry out new investment designed to increase the resilience of the electricity grid and identify mitigation strategies.

In line with our role in driving the country's energy transition, Terna's strategic plans, further described in the chapter "The value creation strategy", include action to tackle climate change, identifying:

- the works needed to develop and strengthen the electricity grid in the ten-year Development Plan, including overseas interconnections, to ensure the integration of renewable sources;
- tools to ensure the security and reliability of the electricity system in the Security Plan, in a scenario where renewable sources are increasingly more widespread and thermoelectric plants are decommissioned, resulting in issues relating to system inertia and voltage regulation;
- predictive solutions for maintenance and renewal in the Renewal Plan for electricity assets.

Common to all these plans is the Resilience Plan, which includes all the initiatives designed to increase grid resilience to enable it to withstand increasingly intense and frequent severe weather events, damaging infrastructure and resulting in outages at plants connected to the NTG. For example, it involves the development of innovative technologies through structured collaborations with start-ups ("Open Innovation"), designed to monitor weather events and increase NTG resilience.

Mitigating climate-related risk also involves the need to plan maintenance of NTG infrastructure to ensure quality of service, the security of the assets operated (power lines and electricity substations) and their ability to remain fully operational.

In addition to initiatives falling within the scope of the Group's routine maintenance programmes, in this regard, Terna is increasingly required to carry out work on the grid that calls for the replacement of specific components. Aside from renewing grid infrastructure, this enables the Company to mitigate the risk arising from the increased intensity and frequency of disruptive weather events. Management considers that this investment does not reduce or modify the expected economic benefits deriving from use of the existing grid accounted for in property, plant and equipment. In the light of the above, it has not been necessary to conduct a critical review of the useful lives of the fixed assets recognised in the financial statements.

The Group also considers that there may be a risk connected with the supply chain due to significant changes in the strategies of key suppliers. This risk is heightened by the crisis in the global supply chain following the pandemic and the conflict between Russia and Ukraine, the energy transition launched in many countries, with a potential impact on construction and maintenance projects, and a resulting impact on the continuity and quality of service and on the time needed to complete infrastructure. The Group constantly monitors developments in the supply chain and has not so far identified any critical issues.

## IAS 38 – Intangible Assets

With regard to non-regulated activities, the Group is committed to developing innovative, digital technological solutions to support the ecological transition. In addition, the Group is also committed to investing in digitalisation and innovation, involving the development of solutions for the remote control of electricity substations and key infrastructure. This involves the installation of sensor, monitoring and diagnostic systems, including predictive solutions, improving the security of the grid and the surrounding area.

With the Resilience Methodology, approved by ARERA in Resolution 9/2022, Terna has established a new innovative and probabilistic tool to plan work that will increase the resilience of the NTG. This involves measuring the related benefit in terms of reducing expected energy not supplied, above all due to ice, snow and strong winds.

The Group has also developed tools for studying and planning new works designed to respond to issues relating to climate change. To promote the spread of a well-informed energy culture and facilitate broad awareness of the issues faced by the electricity sector, in 2021, the Company developed a new Development Plan application and the digital platform called Terna4Green with a view to monitoring the progress made towards Italy's decarbonisation. Via these two new initiatives, Terna continues and strengthens its commitment to ever greater transparency and the spread of information and data, specific expertise and in-depth knowledge of the national electricity system.

In response to the risk linked to the greater intensity and frequency of extreme weather events (tornados, heavy snowfall, ice, flooding), the Group could also benefit from the “Patentability” of the above innovative solutions, with resulting non-regulated business opportunities.

Investment in research is expensed as incurred, whilst development costs that meet certain requirements may be recognised as intangible assets. Further information on the criteria used in the recognition of an intangible asset resulting from development work is provided in the paragraph, “Intangible assets”.

### IAS 36 – Impairment of Assets

As indicated above with regard to property, plant and equipment, management has not identified factors requiring a critical review of useful lives. Similarly, with regard to the risk of impairment losses on property, plant and equipment, management considers that, whilst the steps taken to mitigate climate-related risk involve the need to plan maintenance work on NTG infrastructure, in keeping with the past, so as to ensure quality of service, the security of the assets operated (power lines and electricity substations) and their ability to remain fully operational, these activities do not, in any event, have a negative impact on the measurement of fair value less costs of disposal. This is because a market operator would take this investment into account as part of the fair value measurement process.

### IFRS 9 – Financial Instruments

With regard to borrowings and bond issues, the Group has obtained ESG-linked loans and has issued green bonds, as further described in the section “Sustainable Finance”. In terms of borrowings (other than “Green Bonds”) there is a link between the achievement or not of ESG targets and the related interest payment mechanisms. The Group believes that there may thus be a risk, albeit not significant, connected with the achievement of such goals. Failure to achieve the targets within a contractually agreed date would result in a slight increase in the cost of debt. Nevertheless, the impact of this risk on financial expenses is entirely negligible. The Group constantly monitors activities relating to climate change and has not so far identified any critical issues.

### IAS 37 - Provisions, Contingent Liabilities and Contingent Assets

The legislation introduced in response to climate change may give rise to new obligations that did not previously exist. In this regard, the Terna Group has introduced an environmental policy setting out its commitment to containing and reducing its environmental impact, in some cases going beyond legal requirements when this does not compromise the protection of other general interests provided for under the concession. Full implementation of this policy, which also covers efforts to reduce greenhouse gas emissions, also involved energy efficiency initiatives and the adoption of measures designed to protect birdlife. Terna extends the issue of environmental protection to both its supply chain and local stakeholders directly affected by NTG development projects, through increasingly eco-sustainable offsets.

Given the regulatory framework, management does not believe that such policies give rise to the need to recognise liabilities not previously accounted for. The same conclusion has also been reached with regard to the previously mentioned risk linked to the supply chain due to significant changes in the strategies of key suppliers. As a result, it has not been necessary to carry out a critical review of provisions in the financial statements.

### IFRS 15 – Revenue from Contracts with Customers

In terms of Regulated Activities, part of the remuneration for transmission and dispatching services derives from regulatory incentive mechanisms linked to specific targets. The achievement of these targets may be influenced by climate change risks, as for example the intensification of extreme weather events could have an impact on the continuity and quality of the service offered by Terna. The Group monitors these risks and, at this time, has not identified a need to revise the estimates relating to these incentives.

Climate change and the subsequent adoption of policies designed to reduce CO2 emissions and achieve Net Zero Emissions targets by most industrial clients could result in increased business opportunities.

## IFRS 2 – Share-based Payments

The current long-term incentive plans, so called Share Performance Plans, are 25% linked to the inclusion of a series of ESG indices, selected to represent the Group's ability to deliver an all-round sustainability performance, including the Dow Jones Sustainability Index World, Stoxx ESG Leaders and the MIB 40 ESG. The inclusion is subject to assessments conducted by three rating agencies: S&P Global, Sustainalytics and Moody's ESG in that order. A significant part of these assessments is linked to the issue of climate change: specifically, in order to be included in the selected ESG indexes every year, and for the whole duration of the LTI Plan, performance and positioning in terms of, for example, climate strategy, the assessment and management of climate risks, cuts in greenhouse gas emissions and public disclosures on relevant metrics, is of great importance.

## Investments in subsidiaries and associates

Investments in subsidiaries are investments where Terna has the power to directly or indirectly govern the financial and operating policies of the investee so as to obtain benefits from its activities. Associates are investees over which Terna exercises significant influence.

In assessing whether or not Terna has control or significant influence, being the ability to participate in the determination of these companies' financial and operating policies, without having control or joint control, potential voting rights that are exercisable or convertible are also taken into account.

Investments in subsidiaries and associates are recognised at cost, written down in the event of an impairment loss. If the circumstances that gave rise to the impairment cease to exist, the value of the investment is restored to the extent of the impairment loss recognised and the reversal is recognised in the income statement.

In the event that the loss attributable to the Company exceeds the carrying amount of the equity interest, and the Company is required to meet the legal or constructive obligations of the investee or, in any case, to cover its losses, any excess is recognised in a specific provision.

## Joint arrangements

Investments in joint arrangements, in which the Company exercises joint control with other entities, are recognised initially at cost and subsequently measured using the equity method. The Company recognises its share of the assets and liabilities attributable to joint arrangements in accordance with IFRS 11.

In assessing the existence of joint control, it is ascertained whether the parties are bound by a contractual agreement and whether this agreement attributes to the parties the joint control of the agreement itself. Joint control exists when an entity has control over an arrangement on a contractual basis, and only when decisions relating to the relevant activities require the unanimous consent of all parties that jointly control the arrangement.

## Translation of foreign currency items

Terna's financial statements are prepared in euros, the Company's functional currency. In the financial statements, all transactions in currencies other than the functional currency are recognised at the exchange rate prevailing on the date of the transaction. Monetary assets and liabilities in currencies other than the functional currency are subsequently adjusted at the exchange rate prevailing at year end. Any translation differences are taken to the income statement.



Non-monetary assets and liabilities in foreign currency stated at historical cost are converted at the exchange rate prevailing when the transaction was initially recognised. Non-monetary assets and liabilities in foreign currency stated at fair value are converted at the exchange rate prevailing when fair value was measured.

## Property, plant and equipment

Property, plant and equipment is recognised at historical cost, including costs directly attributable to preparing the asset for its intended use. In the event of legal or constructive obligations, cost also includes the present value of the estimated cost of dismantling or removing the asset. The corresponding liability is recognised in provisions for risks and charges.

Borrowing costs directly attributable to the purchase, construction or production of an asset that qualify for capitalisation pursuant to IAS 23 are capitalised as part of the cost of the asset. Costs incurred after purchase are recognised as an increase in the carrying amount of the asset to which they relate if it is probable that the future benefits of that cost will flow to the Company, and if the cost can be reliably measured. All other costs are expensed as incurred.

Each element of an item of property, plant and equipment of material value, with respect to the total value of the item to which it belongs, is recognised and depreciated separately.

Property, plant and equipment is shown net of accumulated depreciation and any impairment losses. Depreciation is calculated on a straight-line basis over the estimated useful economic life of the asset, which is reviewed annually, with revisions applied on a prospective basis. Depreciation of an asset begins when the asset becomes available for use.

Liabilities associated with items of property, plant and equipment are taken to a specific provision as a contra account of the related asset. The amount is taken to the income statement through the depreciation of the asset.

Property, plant and equipment is written off either at the time of disposal or when no future economic benefit is expected from their use or disposal. Any profit or loss, recognised in the income statement, is determined as the difference between the net proceeds deriving from disposal and the net carrying amount of the assets eliminated.

The main rates of depreciation, calculated on the basis of the useful lives of the relevant assets, are as follows:

### Rates of depreciation

Buildings - Civil and industrial buildings	2.50%
Plant and equipment - Transmission lines	2.22%
<b>Plant and equipment - Transformer substations:</b>	
- Electrical machinery	2.38%
- Electrical devices and equipment	3.13%
- Automation and control systems	6.70%
<b>Plant and equipment - Central systems for remote management and control:</b>	
- Devices, electrical equipment and ancillary plant	5.00%
- Computers	10.00%

Land, regardless of whether it is free of constructions or related to civil and industrial buildings, is not depreciated, since it has an indefinite useful life.

This asset class also includes right-of-use assets, recognised under IFRS 16, arising from lease arrangements where the Company is lessee and relating to the use of property, plant and equipment. A lease arrangement is, or contains, a lease if the contract conveys the right to control the use of an identified asset for a period of time in exchange for consideration. Applying this standard, the lessee recognises: (i) a right-of-use asset in its statement of financial position and a liability representing its obligation to make the payments provided for under the arrangement, for all leases with terms in excess of twelve months where the asset cannot be considered of low value (Terna has elected to apply the practical expedient provided for in the standard, recognising payments relating to arrangements that do not fall within the scope of this type of lease in the income statement); (ii) depreciation of the recognised assets and interest expense on the lease liability separately in the income statement.

In determining the lease term, the Group considers the non-cancellable period of the lease and the additional periods resulting from any options to extend the lease, or from the decision not to exercise the option to terminate the lease early (where there is reasonable certainty that such options will be exercised).

The lease liability is initially recognised at the present value of the remaining lease payments at the commencement date: (i) fixed payments; (ii) variable lease payments that depend on an index or a rate; (iii) amounts expected to be payable by the lessee under residual value guarantees; (iv) the exercise price of a purchase option if the lessee is reasonably certain to exercise that option; and finally (v) payments of penalties for terminating the lease, if the lease term reflects the lessee exercising an option to terminate the lease. The present value of the payments is determined using a discount rate equal to the Group's incremental borrowing rate, bearing in mind the frequency and duration of the payments provided for in the lease contract.

Following initial recognition, the lease liability is accounted for at amortised cost and remeasured, with a matching change in the value of the related right-of-use asset, when there is a change in future lease payments as a result of: (i) a renegotiation of the contract; (ii) changes in the index or rate; or (iii) changes in the assessment of whether or not the options contained in the contract will be exercised (e.g., the purchase of the leased asset, extension or termination of the lease). The right-of-use asset is initially recognised at cost, measured as the sum of the following components: (i) the amount of the initial measurement of the lease liability; (ii) any initial direct costs incurred by the lessee; (iii) any lease payments made at or before the commencement date, less any lease incentives received; and (iv) an estimate of costs to be incurred by the lessee in dismantling and removing the underlying asset, restoring the site on which it is located (or restoring the underlying asset to the condition required by the terms and conditions of the lease). Following initial recognition, the right-of-use asset is adjusted to take into account (i) any accumulated depreciation, (ii) any accumulated impairment losses, and (iii) the effects of any remeasurement of the lease liability.

## Intangible assets

Intangible assets, which all have finite useful lives, are recognised at cost, and shown net of accumulated amortisation and any impairment losses. Amortisation begins when the asset becomes available for use and is calculated on a straight-line basis over the estimated useful life of the related asset, which is reviewed annually. Any revisions to estimated figures are applied on a prospective basis.

Intangible assets essentially consist of the concession to exclusively provide electricity transmission and dispatching services, granted to Terna S.p.A., on 1 November 2005, with the acquisition of the TSO business unit. As established in the Decree issued by the Ministry of Productive Activities on 20 April 2005, this concession has a 25-year term, renewable for another 25 years, from the date of effective transfer of the activities, functions, assets and legal arrangements of the concession from GSE (formerly GRITN) to Terna S.p.A.. This intangible asset was initially recognised at cost, which reflected fair value.

Other intangible assets essentially refer to software developments and upgrades with a useful life of three years.

Development costs are capitalised by the Company only if they can be reliably estimated and there is the technical possibility and intention to complete the intangible asset so that it will be available for use, and the asset can be used and it is possible to demonstrate that it will generate probable future economic benefits.

Financial expenses directly attributable to the acquisition, construction or production of a non-current asset which justifies capitalisation pursuant to IAS 23 are capitalised to the asset as part of its cost.

All other development costs and research expenses are recognised in the income statement when incurred. These intangible assets are amortised over their estimated residual useful life, which is normally three years, given their rapid obsolescence.

## Infrastructure rights

Infrastructure includes the property, plant and equipment and intangible assets employed in dispatching activities in Italy. These activities are carried out under concession arrangements, which fall within the scope of application of IFRIC 12, since the services provided are regulated and control exists over the residual interest. More specifically, infrastructure rights have been recognised as an intangible asset, as valued on the basis of the Intangible Asset model, given the return generated by dispatching activities thanks to the charges paid by users. These assets have a useful life of three years.

The revenue and costs relating to investment activities are recognised with reference to the contracts concerned on a stage-of-completion basis; revenue recognised during the construction phase is limited to the amount of the internal and external construction costs incurred, considering that the fair value of the construction services is equivalent to the construction cost paid to third-party contractors plus the internal cost of the technical personnel employed on such construction activities. The assets continue to be amortised and depreciated in accordance with the initial schedule.

By contrast, dispatching revenue continues to be recognised in accordance with IFRS 15 and financial expenses continue to be capitalised pursuant to IAS 23.

IFRIC 12, instead, is not applicable to the part of the Parent Company's concession arrangement relating to transmission activities, since neither the concession nor the related legislation envisages that ownership of the NTG is to be restored to the public grantor, even for a consideration.

## Goodwill

Goodwill, deriving from the acquisition of subsidiaries, is allocated to each of the cash generating units (CGU) identified, corresponding with Terna S.p.A.'s regulated activities. Goodwill is not amortised after initial recognition but is adjusted to reflect impairment losses, measured as described above. Goodwill relating to investments in associates and joint ventures is included in the carrying amount of those companies. Where negative goodwill arises, it is recognised in the income statement at the time of acquisition.

## Financial instruments

### Financial assets

IFRS 9 – Financial Instruments, effective from 1 January 2018, is divided into the following phases: classification and measurement, derecognition, impairment and hedge accounting.

In order to classify and measure financial instruments, the Company recognises financial assets at fair value inclusive of transaction costs.

Financial assets represented by debt instruments, falling within the scope of application of the standard, may be measured at amortised cost, at fair value through other comprehensive income or at fair value through profit or loss, depending on the business model adopted to manage the financial assets and the characteristics of the contractual cash flows.

In accordance with the provisions of IFRS 9, the Company correctly classifies these assets based on the results of co-called SSPI (“solely payments of principal and interest”) tests. Under this test, assets may be recognised at amortised cost or fair value through other comprehensive income if they generate cash flows that are solely payments of principal and interest on the principal amount outstanding. This measurement is applied at the level of each individual instrument.

Specifically, the Company measures financial assets:

- at amortised cost, if the financial asset is held with the aim of collecting the contractual cash flows that meet the SPPI test, as the cash flows represent solely payments of principal and interest;
- at fair value through other comprehensive income (“FVOCI”), if the financial asset is held within a business model whose objective is achieved by collecting the contractual cash flows and by selling the financial asset, and the contractual terms of the financial asset give rise on specified dates to cash flows that are solely payments of principal and interest on the principal amount outstanding. Changes in fair value after initial recognition are recognised in other comprehensive income and recycled through profit or loss on derecognition. The government securities held by the Parent Company are included in this category;
- at fair value through profit or loss (“FVTPL”), if the asset is not held in one of the above business models. This category primarily includes derivative financial instruments held for trading and debt instruments with contractual cash flows that are not solely payments of capital and interest.

## Trade receivables

Trade receivables are initially recognised at fair value and subsequently measured at amortised cost, using the effective interest method. Receivables with due dates that reflect normal commercial terms are not discounted.

In accordance with the provisions of IFRS 9, the Company’s trade receivables fall within the hold to collect business model, as these assets are held with the objective of collecting the cash flows primarily by collecting the contractual cash flows, the receivables primarily fall due within 12 months and do not include a significant financial component, and the Company does not intend to sell such receivables.

Trade receivables are recognised net of any losses recognised in a specific allowance for doubtful accounts (identified on the basis described in the paragraph, “Allowance for doubtful accounts”). The new standard, IFRS 9, has introduced application of a model based on expected credit losses. This requires the Company to assess expected credit losses, and the related changes, at each reporting date. Specifically, the Company has applied the simplified approach permitted by IFRS 9 to trade receivables, finance lease receivables and assets deriving from contracts with customers, in order to measure the allowance for doubtful accounts based on expected losses over the life of the receivable. The Company has thus determined the amount of expected credit losses using a provisioning matrix, based on information regarding historical credit losses for similar past due exposures, adjusted to take into account current conditions and forward-looking elements.

## Cash and cash equivalents

Cash and cash equivalents are recognised at nominal value and include amounts that are available on demand or can be readily converted into a known amount of cash and are subject to an insignificant risk of changes in value.

## Trade payables

Trade payables are initially recognised at fair value and subsequently stated at amortised cost. If their due dates reflect normal commercial terms, they are not discounted.

## Financial liabilities

Financial liabilities are recognised at the settlement date and measured at fair value, net of directly related transaction costs. Subsequently, financial liabilities are measured at amortised cost, using the original effective interest method. If the liabilities are covered by fair value hedges, they are adjusted to reflect changes in fair value with respect to the hedged risk. Subsequent measurement of financial liabilities depends on their classification as financial liabilities at amortised cost and at fair value through profit or loss.

## Derivative financial instruments

Derivatives are recognised at fair value at the trade date.

The qualifying criteria applied in classifying derivatives as eligible for hedge accounting are as follows:

- the hedging relationship consists only of eligible hedging instruments and eligible hedged items;
- at the inception of the hedging relationship there is formal designation and documentation of the hedging relationship and the entity's risk management objective and strategy for undertaking the hedge. That documentation shall include identification of the hedging instrument, the hedged item, the nature of the risk being hedged and how the entity will assess whether the hedging relationship meets the hedge effectiveness requirements (including its analysis of the sources of hedge ineffectiveness and how it determines the hedge ratio);
- the hedge ratio of the hedging relationship is the same as that resulting from the quantity of the hedged item that the entity actually hedges and the quantity of the hedging instrument that the entity actually uses to hedge that quantity of hedged item.

The Company discontinues hedge accounting prospectively only when the hedging relationship (or a part of a hedging relationship) ceases to meet the qualifying criteria. This includes instances when the hedging instrument expires or is sold, terminated or exercised. For this purpose, the replacement or rollover of a hedging instrument into another hedging instrument is not an expiration or termination if such a replacement or rollover is part of, and consistent with, the entity's documented risk management objective.

For hedge accounting purposes, there are three types of hedge:

- fair value hedges when the hedge regards the exposure to changes in the fair value of the recognised asset or liability or there is an unrecognised firm commitment;
- cash flow hedges when the hedge regards the exposure to variability in cash flows that is attributable to a particular risk associated with all of the recognised asset or liability or a highly probable forecast transaction or the exchange rate risk on an unrecognised firm commitment;
- the hedge of a net investment in a foreign operation.

When derivatives cover the risk of changes in the cash flows of the hedged instruments (cash flow hedges), the portion of changes in the fair value qualifying as effective is initially recognised in "Other comprehensive income" (accumulated in equity) and subsequently in profit or loss, as the cash flows from the hedged item affects profit or loss. The portion of the fair value of the hedging instrument that does not qualify as effective is recognised in profit or loss.

When hedging derivatives cover the risk of changes in the fair value of hedged instruments (fair value hedges), they are recognised at fair value in profit or loss. Accordingly, the hedged items are adjusted to reflect changes in the fair value associated with the hedged risk.

Changes in the fair value of derivatives that do not meet hedge accounting requirements in accordance with IFRS are recognised in profit or loss.

Fair value is measured on the basis of official quotations for instruments traded in regulated markets. The fair value of instruments not traded in regulated markets is measured by discounting projected cash flows along a yield curve prevailing in the market at the reporting date, and by translating amounts in currencies other than the euro at closing exchange rates.

Financial and non-financial contracts (which are not already measured at fair value) are also analysed to identify any embedded derivatives, which must be separated and measured at fair value.

This analysis is conducted at the time the entity becomes party to the contract or when the contract is renegotiated in a manner that produces a material change in the original associated cash flows.

## Hybrid bonds

Issues of non-convertible, perpetual hybrid bonds are classified as equity instruments. These are in fact instruments that allow Terna to defer coupon payments over time and whose early redemption is permitted on the occurrence of certain events or at the reset date. These instruments cannot be converted into shares and, in the event of the Company's liquidation, winding up or insolvency, interest payments are subordinated to all the issuer's other payment obligations. The proceeds received from the sale of the instruments and subsequent returns of capital are accounted for as an increase or a reduction in equity, respectively, in compliance with the requirements applicable to equity instruments in IAS 32. Interest expense, at the time the payment obligation arises, is recognised as a reduction in equity.

## Employee benefits

The liability associated with employee benefits payable on or after termination of employment relate to defined benefit plans (deferred compensation benefits, additional months' pay, payment in lieu of notice, energy discounts, ASEM health cover and other benefits) or with other long-term employee benefits (loyalty bonuses) is recognised net of any plan assets. The liability is measured separately for each plan on the basis of actuarial calculations that estimate the amount of vested future benefits that employees have accrued at the reporting date. The liability is recognised on an accruals basis over the vesting period and is measured by independent actuaries.

## Share-based payments

Given that they are substantially a form of remuneration, personnel expenses include the cost of share-based incentive plans. The cost of the incentive is measured on the basis of the fair value of the equity instruments granted and the expected number of shares to be effectively awarded. The accrued amount for the period is determined on a straight-line basis over the vesting period, being the period between the grant date and the date of the award. The fair value of the shares underlying the incentive plan is measured at the grant date, based on the expected satisfaction of the performance conditions associated with market conditions and is not subject to adjustment in future periods. When receipt of the benefit is linked to non-market conditions, the estimate relating to these conditions is reflected and the accrual's number of shares expected to be awarded is adjusted over the vesting period. If, at the end of the vesting period, the plan does not result in the award of any shares to beneficiaries due to the failure to satisfy the performance conditions, the portion of the cost linked to market conditions is not reversed through the income statement.

## Provisions for risks and charges

Provisions set aside for risks and charges are recognised when, at the reporting date, the Company has a legal or constructive obligation as the result of a past event and it is probable that an outflow of resources will be required to settle the obligation and a reliable estimate can be made of the amount of the disbursement. Where the effect is material, provisions are made by discounting estimated future cash flows using a discount rate that reflects current market rates and the specific risk applicable to the obligation, if any. Where discounting is used, the increase in the provisions due to the passage of time is recognised in the income statement as a financial expense. If it relates to property, plant and equipment (site disposal and restoration, for example), the provision is recognised as a contra entry to the asset to which it relates. The expense is recognised in the income statement through depreciation of the item of property, plant and equipment to which it relates.

Changes in the estimates are recognised in the income statement for the year in which the change occurs, except for the expected costs of dismantling, removal and restoration resulting from changes in the timing and use of the economic resources necessary to extinguish the obligation or are attributable to a material change in the discount rate. These costs are recognised as an increase or reduction in the related assets and recognised in the income statement through depreciation.

## Government grants

Government grants are recognised when there is a reasonable certainty that they will be received and that the Company will comply with all the conditions required for disbursement. Grants received in relation to specific assets whose value is recognised under non-current assets are recognised, in the case of plant already in operation at 31 December 2002, among other liabilities and taken to the income statement over the depreciation period for the assets in question. As of the 2003 financial year, grants related to new plant entering service are recognised as a direct reduction in the non-current asset concerned.

Grants related to income are recognised in the income statement when the conditions for recognition are met.

## Revenue

The Company's revenue can be categorised as follows:

- **Revenue from sales and services**, including revenue from contracts with customers and therefore falling within the scope of IFRS 15.

In accordance with the provisions of IFRS 15, revenue from contracts with customers is recognised when the performance obligations identified in the contract are satisfied and control over the goods or services is transferred to the customer for an amount that reflects the consideration that the Company expects to receive in exchange for the goods or services.

The standard envisages two methods for identifying the correct time at which to recognise the revenue attributable to each performance obligation: at contract inception, the Company determines if the goods or services covered by the performance obligation will be transferred to the customer over a period of time or at a point in time:

- Revenue from the sale of goods is recognised when control of the goods is transferred to the customer (at a point in time). The Company determines if there are other promises in the contract representing a performance obligation to which a part of the transaction consideration must be allocated. In determining the sale price, the Company takes into account the effects of a variable consideration, significant financial components, non-monetary components and amounts to be paid to the customer (if present);
- Revenue from services is recognised with reference to the stage of completion of the activity, in accordance with the provisions of IFRS 15 (over a period of time).

Revenue from sales and services also includes output-based incentives, as defined by ARERA, for both transmission and dispatching activities. The incentive mechanisms fall within the scope of application of IFRS 15. If the counterparties through which Terna collects an incentive are not active in the market in the year in which achievement of the targets underlying the incentive scheme is confirmed, IFRS 15 is applied in accordance with the analogy-based approach provided for in IAS 8, as confirmed with reference to the Conceptual Framework for Financial Reporting.

If the mechanism includes a significant financial component, the amounts recognised in the financial statements are discounted to present value. Based on the specific nature of each mechanism, the Group assesses whether the performance obligation is satisfied over a period of time or at a point in time, also taking into account whether or not the right is subject to confirmation or verification by the regulator, ARERA.

- **Other revenue and income**, which includes revenue from lease arrangements and other residual forms of revenue, included within the scope of application of IFRS 15, deriving from sales of goods not forming part of the Company's ordinary activities.

## Costs

Costs are recognised on an accruals basis. They are recognised in the accounting period when they relate to goods and services sold or consumed in the same period or are allocated in a systematic way when it is not possible to identify a future use for them.

## Financial income and expenses

Financial expenses directly attributable to the acquisition, construction or production of an asset that qualify for capitalisation are capitalised as part of the cost of the asset. The property, plant and equipment and intangible assets involved are those that require at least one year in order to prepare them for use. The directly attributable financial expenses are expenses that would not have been incurred had the expenditure for the asset not been incurred.

Where funds are borrowed specifically, the costs eligible for capitalisation are the actual costs incurred less any income earned on the temporary investment of such borrowings. Where loans are obtained for general purposes, the eligible amount is determined by applying a capitalisation rate to the expenditure on that asset equal to the weighted average of the financial expenses applicable to the borrowings outstanding for the year, excluding any specifically borrowed funds. The amount of capitalised financial expenses during a year will in any case not exceed the amount of financial expenses incurred during that year.

Capitalisation commences as from the date all the following conditions are first met: (a) expenditure has been incurred for the asset; (b) financial expenses have been incurred; and (c) the activities involved in preparing the asset for its intended use or sale are in progress. Capitalisation ceases when the activities involved in preparing the asset for its intended use or sale are substantially complete.

The average capitalisation rate used for 2022 is approximately 1.3% (0.8% for 2021).

Financial income and expenses other than capitalised amounts are recognised on an accruals basis in respect of the interest on the net value of the related financial assets and liabilities, using the effective interest rate.

## Treasury shares

Treasury shares, including those held to service share-based incentive plans, are recognised at cost and accounted for as a reduction in equity. Any gains or losses resulting from the later sale of such shares are recognised in equity.

## Dividends

Dividends from investees are recognised when the shareholders' right to receive payment is established. Dividends and interim dividends payable to shareholders are shown as changes in equity at the date in which they are approved by the General Meeting of shareholders and the Board of Directors, respectively.

## Income taxes

Current income taxes are recognised as "Tax liabilities", net of advances paid, or "Tax assets" where the net balance of the items is positive. They are based on the estimated taxable income and in accordance with current legislation, taking account of applicable exemptions.

Deferred tax assets and liabilities are calculated on temporary differences between the carrying amounts of assets and liabilities recognised in the separate financial statements and the corresponding amounts recognised for tax purposes, using current tax rates or the rates expected to be in effect when the temporary differences reverse, based on rates approved at the reporting date.

Deferred tax assets are recognised when their recovery is considered probable, i.e. when future taxable income will be available against which the asset can be used. The recoverability of deferred tax assets is reviewed at the end of each year.

Deferred tax liabilities are recognised in any case if they exist. Taxes relating to items recognised directly in the income statement are also allocated to the income statement.

## Discontinued operations and assets held for sale

Where the carrying amount of non-current assets (or disposal groups) is to be recovered primarily through sale rather than through continued use, these items are classified as held for sale and shown separately from other assets and liabilities in the



statement of financial position. Non-current assets (or disposal groups) classified as held for sale are initially recognised under the specific IFRS/IAS applicable to each asset and liability and subsequently accounted for at the lower of the carrying amount and fair value less costs to sell. The carrying amounts of each asset and liability not falling within the scope of application of the measurement criteria provided for in IFRS 5, but that are held for sale, are remeasured in accordance with the applicable IFRS before remeasurement of the fair value less costs to sell. Any subsequent impairment losses are recognised directly as an adjustment to non-current assets (or disposal groups) classified as held for sale with a matching entry in profit or loss. The matching amounts for the previous year are not reclassified. A discontinued operation is a component of an entity that either has been disposed of or is classified as held for sale, represents a major line of business or geographical area of operations, is part of a single coordinated plan to dispose of a separate major line of business or geographical area of operations or, finally, is an investment acquired exclusively with a view to resale.

## New accounting standards

### International financial reporting standards effective as of 1 January 2022

A number of new amendments to standards already applied, none of which have had a significant impact, came into effect from 1 January 2022. The relevant standards are as follows:

#### *Amendment to IFRS 3, IAS 16, IAS 37 and Annual Improvements 2018-2020*

On 28 June 2021, the European Commission issued Regulation 2021/1080, endorsing the following amendments:

- **Amendments to IFRS 3 Business Combinations:** the changes aim to update the reference to the revised version of the Conceptual Framework in IFRS 3, without this resulting in modifications to the provisions of the standard;
- **Amendments to IAS 16 Property, Plant and Equipment:** the changes aim to not allow the deduction of the amount received from the sale of good produced from the cost property, plant and equipment when testing such assets. This sales revenue and the related costs must therefore be recognized in profit or loss;
- **Amendments to IAS 37 Provisions, Contingent Liabilities and Contingent Assets:** the amendment clarifies that in estimating the onerous nature of a contract an entity must take into account all the incremental costs (such as, for example, direct labour and materials), but also all the costs that the entity cannot avoid having entered into the contract (such as, for example, allocation of the depreciation charge for an item of property, plant and equipment used in fulfilling the contract);
- **Annual Improvements 2018-2020: the changes regarded IFRS 1 First-time Adoption of International Financial Reporting Standards, IFRS 9 Financial Instruments, IAS 41 Agriculture and Illustrative Examples of IFRS 16 Leases.**

The adoption of these amendments has not had an impact on the Company's financial statements.

### International financial reporting standards, amendments and interpretations endorsed but not yet effective

At the date of approval of this document, the following standards, amendments or interpretations have yet to become effective and the Company has not opted for early adoption at 31 December 2022:

#### *IFRS 17: Insurance contracts*

On 19 November 2021, the European Commission issued Regulation 2021/2036, endorsing IFRS 17. The new accounting standard for insurance contracts was published by the IASB on 18 May 2017, to replace the interim version of IFRS 4. The standard aims to ensure that an entity provides pertinent information providing an accurate view of the rights and obligations resulting from the insurance contracts issued. The IASB has developed the standard to remove inconsistencies and weaknesses in existing accounting policies, providing a single principle-based framework that takes into account all types of insurance contracts, including any reinsurance contracts to which an insurance undertaking is

party. The new standard also introduces presentation and disclosure requirements to improve comparability between entities belonging to this sector.

The standard will come into effect from 1 January 2023 and will not have an impact on the Company's financial statements.

### *Amendments to IAS 1 and IAS 8: Disclosure of Accounting Policies - Amendments to IAS 1 and IFRS Practice Statement 2 and Definition of Accounting Estimates – Amendments to IAS 8*

On 2 March 2022, the European Commission issued Regulation 2021/2036, endorsing the amendment making changes to IAS 1 Presentation of financial statements and IAS 8 Accounting standards, and changes to the treatment of accounting estimates and errors. These amendments aim to improve the disclosure of accounting policies in order to provide more useful information for investors and other primary users of financial statements and to help companies to distinguish changes in accounting estimates from changes in accounting policy.

The amendments will come into effect from 1 January 2023 and the Company will not opt for early adoption. The Company is currently assessing the potential impact of the introduction of these amendments on its financial statements.

### *Amendment to IAS 12: Deferred Tax related to Assets and Liabilities arising from a Single Transaction*

On 11 August 2022, the European Commission issued Regulation 2022/1329, endorsing the amendment that clarifies how to account for deferred tax on certain transactions that can generate assets and liabilities of equal amounts, such as leasing and decommissioning obligations.

The amendments are applicable from 1 January 2023, and the Company will not opt for early adoption. The Company is currently assessing the potential impact of the introduction of these amendments on its financial statements.

### *Amendment to IFRS 17 Insurance Contracts: Initial Application of IFRS 17 and IFRS 9 – Comparative information*

On 8 September 2022, the European Commission issued Regulation 2022/1491, endorsing the amendment that enables to overcome one-off classification differences in comparative information from the previous year when first applying IFRS 17 and IFRS 9. The amendment is, therefore, designed to prevent temporary accounting imbalances between financial assets and insurance contract liabilities and improve the usefulness of comparative information for readers of the financial statements. The standard will be effective from 1 January 2023 and will not have an impact on the Company's financial statements.

## **International financial reporting standards, amendments and interpretations awaiting endorsement**

For newly-issued amendments, standards and interpretations that have not yet been endorsed by the EU, but which address issues that affect or could affect the Company, assessments are currently being conducted of the possible impact of their application on the financial statements, taking into account the date on which they will take effect. In particular:

### *Amendment to IAS 1: Presentation of Financial Statements: Classification of Liabilities as Current or Non-current and Classification of Liabilities as Current or Noncurrent - Deferral of Effective Date and Non-current Liabilities with Covenants*

On 23 January 2020, 15 July 2020 and 31 October 2022 the IASB published the amendment to IAS 1 that aims to clarify how to classify payables and other short- or long-term liabilities, including those subject to covenants. The Company is currently assessing the potential impact of the introduction of these amendments on its financial statements.

### *Amendment to IFRS 16: Lease Liability in a Sale and Leaseback*

On 22 September 2022, the IASB published the amendment to IFRS 16, aiming to clarify how to account for a sale and leaseback that involves variable payments based on the performance or use of the asset included in the transaction.

## B. Notes to the income statements

### Revenue

#### 1. Revenue from sales and services - 2,459.7 million

(€m)

	2022	2021	Δ
Transmission charges billed to grid users and incentives	1,823.8	1,892.4	(68.6)
Dispatching and metering charges and other energy-related revenue	115.3	113.8	1.5
Incentives for dispatching activities	334.7	-	334.7
Revenue from services performed under concession	67.4	46.9	20.5
Quality of service	23.2	11.6	11.6
Other sales and services	95.3	82.1	13.2
<b>TOTAL</b>	<b>2,459.7</b>	<b>2,146.8</b>	<b>312.9</b>

#### Transmission charges and incentives

This item, amounting to €1,823.8 million, includes revenue from the core business relating to the allowed return due to the Company for use of the National Transmission Grid.

The reduction in the item (down €68.6 million) primarily reflects the impact of the reduction in the WACC recognised for 2022 (Resolution 614/21) and the volume effect, partly offset by the increase in the RAB during the period and the output-based incentives related to the delivery of additional transmission capacity between market areas (€34.5 million, Resolution 567/2019) after the incentives recorded in 2021 (down €48.1 million).

#### Dispatching and metering charges and other energy-related revenue

This refers to the charges recognised in return for provision of the dispatching and metering service (the dispatching component amounts to €112.5 million, whilst the metering component totals €0.3 million) and other energy-related revenue of €2.5 million.

This item is broadly in line with the previous year.

#### Incentives for dispatching activities

The item regards output-based incentives for dispatching, totalling €334.7 million.

These incentives result from the mechanisms referred to in resolutions 597/2021 and 132/2022, designed to cut DSM costs, the shortfall in wind production and essential plants (€194.2 million, representing the accrued share of the present value of the incentive due for the period 2022-2024, amounting to €644 million gross of the effect of discounting) and Resolution 699/2018, which provided incentives for grid development projects in the three-year period from 2019 to 2021 designed to relieve congestion within market areas and grid constraints due to voltage regulation and improve conditions for essential service provision (€140.5 million, representing the present value of the amount established in Resolution 26/2023, to be collected over three years from 2023).

With regard to the mechanism introduced by Resolution 597/2021, the revenue represents the accrued portion of the estimated overall incentive for the three-year period. This also incorporates factors that could result in a reduction in the incentive in the years 2023 and 2024, due to the partial increase in DSM costs associated with an increase in the volume of market trades in the event of critical situations caused by system inadequacies, tensions on overseas markets and/or extreme weather conditions due to factors that are not neutralised by the calculation rules.

With regard to the mechanism introduced by Resolution 699/2018, the revenue represents the maximum amount of the incentive due (€150 million gross of the effect of discounting) for work carried out in the period between 2019 and 2021, to the extent it was possible to assess the related amount in 2022 and finally approved by ARERA in Resolution 26/2023.

## Revenue from services performed under concession

This item includes revenue from infrastructure construction and upgrade services performed under concession, recognised in application of IFRIC 12, amounting to €67.4 million.

The increase with respect to the previous year, amounting to €20.5 million, reflects increased investment during the period in dispatching infrastructure.

## Quality of service

This item, amounting to €23.2 million, regards the RENS (Regulated Energy Not Supplied) incentive mechanism introduced by Resolution 653/2015/r/eel, calculated on a pro rata basis taking into account the estimated overall results expected in the 2020-2023 regulatory period.

The increase of €11.6 million in this item compared with the previous year is broadly due to the recognition of the pro-rata assessment of the estimated overall performance for the 2022-2023 regulatory period.

## Other sales and services

The item, "Other sales and services", amounting to €95.3 million mainly regards revenue from administrative, support and consultancy services provided to subsidiaries (€25.1 million, including €19.8 million from services rendered to Terna Rete Italia S.p.A.), from connections to the NTG (€8.7 million) and from Non-regulated Activities (€61.6 million), primarily support and housing services for fibre networks (€21.3 million) and progress on construction of the private Italy-Austria interconnector (€25.1 million).

The increase of €13.2 million compared with the previous year is primarily due to increased revenue reflecting the state of progress of work on the private Italy-Austria interconnector (up €2.6 million), from the Connectivity services provided by the Non-regulated business (up €2.2 million), from connections to the NTG (€3.3 million), from the O&M services provided under the Sacoi contract (up €2.9 million) and from subsidiaries (up €2.6 million), primarily due to administrative services following changes to the range of activities carried out, as well as other non-recurring items.

## Pass-through revenue/expenses

This item regards "pass-through" revenue and expenses (the balance of which amounts to zero). These items result from purchases and sales of electricity from electricity market operators carried out each day. Measurements for each point of injection and withdrawal are taken and the differences, with respect to energy market schedules are calculated. These differences, known as imbalances, are then measured using algorithms established by the regulatory framework. The net charge resulting from calculation of the imbalances and the purchases and sales, carried out by Terna, on the DSM, is billed on a pro rata basis to each end consumer via a specific uplift payment. This item also reflects the portion of the transmission charge that Terna passes on to other grid owners.

The components of these transactions are shown in greater detail below.

(€m)

	2022	2021	CHANGE
<b>Power Exchange-related revenue items</b>	<b>11,308.4</b>	<b>6,506.8</b>	<b>4,801.6</b>
- Uplift	1,394.5	2,357.9	(963.4)
- Electricity sales	1,278.2	963.7	314.5
- Imbalances	3,689.1	1,580.0	2,109.1
- Congestion revenue	710.7	316.8	393.9
- Load Profiling for public lighting	1,833.5	264.6	1,568.9
- Charges for right to use transmission capacity and market coupling	1,160.0	438.6	721.4
- Interconnector/shippers	66.3	70.6	(4.3)
- Other Power Exchange-related pass-through revenue items	1,176.1	514.6	661.5
<b>Total over-the-counter revenue items</b>	<b>2,933.6</b>	<b>1,910.6</b>	<b>1,023.0</b>
- Capacity market	1,204.3	-	1,204.3
- Coverage of wind farm costs	40.5	36.5	4.0
- Transmission revenue passed on to other NTG owners	146.6	156.0	(9.4)
- Charge to cover cost of essential plants	703.5	727.1	(23.6)
- Charge to cover cost of energy delivery capacity	-	213.9	(213.9)
- Charge to cover cost of interruptibility service	314.3	326.6	(12.3)
- Charge to cover cost of LV capacity and protection service	425.4	366.2	59.2
- Other pass-through revenue for over-the-counter trades	99.0	84.3	14.7
<b>TOTAL PASS-THROUGH REVENUE</b>	<b>14,242.0</b>	<b>8,417.4</b>	<b>5,824.6</b>
<b>Total Power Exchange-related cost items</b>	<b>11,308.4</b>	<b>6,506.8</b>	<b>4,801.6</b>
- Electricity purchases	3,581.1	3,978.1	(397.0)
- Imbalances	3,039.6	1,192.0	1,847.6
- Congestion revenue	527.6	245.0	282.6
- Load Profiling for public lighting	1,886.4	288.6	1,597.8
- Charges for right to use transmission capacity and market coupling	542.0	198.5	343.5
- Interconnectors/Shippers	874.7	200.8	673.9
- Other Power Exchange-related pass-through cost items	857.0	403.8	453.2
<b>Total over-the-counter cost items</b>	<b>2,933.6</b>	<b>1,910.6</b>	<b>1,023.0</b>
- Capacity market	1,204.3	-	1,204.3
- Shortfall in wind production	40.5	36.5	4.0
- Transmission costs passed on to other NTG owners	146.6	156.0	(9.4)
- Fees paid for essential units	703.5	727.1	(23.6)
- Fees paid for energy delivery capacity	-	213.9	(213.9)
- Fees paid for interruptibility service	314.3	326.6	(12.3)
- Fees paid for LV capacity and protection service	425.4	366.2	59.2
- Other pass-through costs for over-the-counter trades	99.0	84.3	14.7
<b>TOTAL PASS-THROUGH COSTS</b>	<b>14,242.0</b>	<b>8,417.4</b>	<b>5,824.6</b>

In 2022, the total uplift was approximately €1,789 million (provisional figure), down 24% on the previous year (€2,360 million). The reduction was due to the reduced cost of procuring services, the fall in the consideration due for Goodwill and Change of Structure Tokens<sup>1</sup>, the reduced cost of contracts providing an alternative to essential providers<sup>2</sup> and a

<sup>1</sup> Goodwill and Change of Structure Tokens are payments made to production plants who have the right to receive them when Terna requests them to fire up the plant or change their structure.

<sup>2</sup> These are the costs incurred by Terna for payments to production plants defined as essential for the electricity system, pursuant to Annex A27 of the Grid Code, and who chose the alternative regime described in art 63 of Resolution 111/06.

sharp rise in congestion revenue in Italian and Overseas market areas<sup>3</sup>, only partly offset by a significant increase in the cost of virtual interconnection services<sup>4</sup>. Further details are provided in “Electricity market trends” in the section, “The Group’s business” in the Report on Operations.

## 2. Other revenue and income – €60.8 million

(€m)

	2022	2021	CHANGE
Payment for lease of operations	22.2	22.2	-
Sundry grants	8.9	8.5	0.4
Gains on sale of infrastructure components	5.1	4.3	0.8
Contingent assets	4.3	19.0	(14.7)
Sales to third parties	3.3	2.5	0.8
Rental income	3.0	2.8	0.2
Insurance proceeds as compensation for damages	2.9	1.2	1.7
Revenue from IRU contracts for fibre	0.9	8.6	(7.7)
Other revenues	10.2	8.2	2.0
<b>TOTAL</b>	<b>60.8</b>	<b>77.3</b>	<b>(16.5)</b>

The most significant components of “Other revenue and income” primarily regard the revenue received from the subsidiary, Terna Rete Italia S.p.A., as payment for the year made under the agreement for the lease of certain operations (€22.2 million), sundry grants (€8.9 million) in relation to the re-routing of lines for third parties, gains on the sale of infrastructure components (€5.1 million), the sale of IRU contracts for fibre (€0.9 million), in addition to other revenues and contingent assets totalling €14.5 million, including €7.7 million from subsidiaries for services rendered under existing intercompany contracts.

The reduction in this item of €16.5 million compared to the previous year primarily reflects the recognition in 2021 of the revenue resulting from the outcome of the claim for a refund of stamp duty paid on the acquisition of Rete S.r.l., (totalling -€13.4 million) and reduced revenue from Connectivity services linked to IRU contracts for fibre (down €7.7 million), partially offset by an increase in insurance proceeds as compensation for damage to infrastructure (up €1.7 million) and an increase in revenue from the subsidiary, Terna Rete Italia S.p.A. (up €1.3 million), primarily due to sureties.

<sup>3</sup> Congestion revenue is generated when there are differences in the balanced prices in the energy markets in the various market areas.

<sup>4</sup> Virtual interconnection is a net cost: Terna plans, builds and operates a new cross-border interconnection infrastructure, the cost of which is partly covered by revenue from auctions in which third party finance providers take part and who will then have access to the available transport capacity.

## Operating costs

### 3. Raw and consumable materials used - €6.4 million

This item, amounting to €6.4 million, includes the value of the various materials and supplies, including fuel for the vehicle fleet. This item is up €0.4 million compared with the previous year, broadly due to increased purchases of telecommunications equipment.

### 4. Services – €483.0 million

	2022	2021	CHANGE
Intercompany services, including technical and administrative services	389.3	345.4	43.9
Maintenance and sundry services	51.2	40.8	10.4
Tender costs for plant	15.5	3.0	12.5
Lease expense	12.2	9.0	3.2
Insurance	9.6	9.8	(0.2)
IT services	4.5	3.5	1.0
Remote transmission and telecommunications	0.7	0.4	0.3
<b>TOTAL</b>	<b>483.0</b>	<b>411.9</b>	<b>71.1</b>

The item, "Intercompany services, including technical and administrative services" regards the accrued costs incurred under specific intercompany contracts (€389.3 million), largely regarding the subsidiary Terna Rete Italia S.p.A., which maintains and operates the infrastructure owned by the Company (€296.8 million), to investment in the development of the Company's transmission and dispatching infrastructure (€48.5 million) and activities and services relating to plant owned by third parties (€19.5 million). This item also includes bonuses relating to the quality of the transmission service attributable to Terna Rete Italia S.p.A. (up €10.0 million).

Fees payable to members of the Board of Statutory Auditors amount to €0.2 million, whilst those payable to members of the Supervisory Board set up in compliance with Legislative Decree 231/2001 amount to €0.1 million.

After the costs recognised in application of IFRIC 12 for the development of dispatching infrastructure (up €21.4 million), the increase in "Services" amounts to €49.7 million. This primarily regards an increase in amounts payable to the subsidiary, Terna Rete Italia S.p.A. (up €34.0 million), relating to an increase in maintenance and operation services provided for the infrastructure owned by the Company following changes to the range of activities carried out, totalling €24.7 million, an increase in the performance bonus linked to the quality of the transmission service awarded to the company, amounting to €4.3 million, and an increase in amounts payable to the subsidiary, Terna Energy Solutions S.r.l. (up €2.2 million) regarding services provided in relation to Non-regulated Activities. There were also increases in provisions for right-of-way fees for power lines (up €4.2 million), in advertising costs (up €2.1 million), in the costs linked to Terna's investments in GRIT and CORESO (up €1.5 million) and in membership fees (€1.7 million).

Under the Terna Group's current organisational structure, responsibility for the activities involved in investment in the development and upgrade of dispatching infrastructure lies with both Terna S.p.A. itself and the subsidiary Terna Rete Italia S.p.A.. The related cost is charged in full to "Services" as a service received from the subsidiary. The following table shows details of the costs recognised in application of IFRIC 12 and within the scope of the item under review.

	(€m)		
	2022	2021	CHANGE
IT services	0.9	1.3	(0.4)
Tender costs for plant	14.6	2.3	12.3
Maintenance and sundry services	2.7	1.6	1.1
<b>Cost of services relating to investment in dispatching infrastructure (IFRIC 12)</b>	<b>18.2</b>	<b>5.2</b>	<b>13.0</b>
Cost of services recognised in application of IFRIC 12 – Services from Terna Rete Italia S.p.A.	43.8	35.4	8.4
<b>Total cost of services relating to investment in dispatching infrastructure (IFRIC 12)</b>	<b>62.0</b>	<b>40.6</b>	<b>21.4</b>

## 5. Personnel expenses - €102.3 million

	(€m)		
	2022	2021	CHANGE
Salaries, wages and other short-term benefits	96.1	78.4	17.7
Directors' remuneration	1.9	1.7	0.2
Termination benefits (TFR), energy discounts and other employee benefits	6.2	5.1	1.1
Early retirement incentives	12.6	3.3	9.3
<b>Gross personnel expenses</b>	<b>116.8</b>	<b>88.5</b>	<b>28.3</b>
Capitalised personnel expenses	(14.5)	(12.1)	(2.40)
<b>TOTAL</b>	<b>102.3</b>	<b>76.4</b>	<b>25.9</b>

Personnel expenses are up €25.9 million, primarily due to an increase in the average workforce and additional provisions for early retirement and staff incentive schemes.

The following table shows the Company's workforce by category at the end of the year and as the average for the year.

	AVERAGE WORKFORCE		WORKFORCE AT	
	2022	2021	31 DECEMBER 2022	31 DECEMBER 2021
Senior managers	51	45	49	46
Middle managers	319	279	326	308
Office staff	629	516	692	563
<b>TOTAL</b>	<b>999</b>	<b>840</b>	<b>1,067</b>	<b>917</b>

The net increase in the average workforce compared with 2021 is 159. This is essentially linked to the requirements relating to delivery of the investment programme provided for in the 2021-2025 Industrial Plan.



**6. Amortisation, depreciation and impairment losses – €650.3 million**

(€m)

	2022	2021	CHANGE
Amortisation of intangible assets	85.8	60.3	25.5
- of which rights on infrastructure	26.7	18.2	8.5
Depreciation of property, plant and equipment	557.4	527.2	30.2
Impairment losses on property, plant and equipment	7.0	0.3	6.7
Impairment losses on trade receivables	0.1	(2.0)	2.1
<b>TOTAL</b>	<b>650.3</b>	<b>585.8</b>	<b>64.5</b>

Amortisation, depreciation and impairment losses for the year amount to €650.3 million, an increase of €64.5 million compared with 2021. This primarily reflects the entry into service of infrastructure and the higher value of impairment losses on assets recognized during the year (up €6.7 million).

**7. Other operating costs - €21.9 million**

(€m)

	2022	2021	CHANGE
Indirect taxes and local taxes and levies	9.6	5.7	3.9
Fees paid to regulators and membership dues	9.1	7.0	2.1
Quality of service costs	1.9	5.9	(4.0)
- of which mitigation and sharing mechanisms	1.6	4.9	(3.3)
- of which Fund for Exceptional Events	0.1	0.8	(0.7)
- of which compensation mechanisms for HV users	0.2	0.2	-
Adjustment of provisions for litigation and disputes	(4.5)	(0.9)	(3.6)
Losses on sales/disposal of plant	0.1	0.2	(0.1)
Other	5.7	5.1	0.6
<b>TOTAL</b>	<b>21.9</b>	<b>23.0</b>	<b>(1.1)</b>

The most significant components of this item regard the costs incurred by the Company for membership dues and fees paid to trade bodies and associations relating to the Group's activities (€9.1 million), quality of service costs (€1.9 million), indirect taxes, local taxes and levies (€9.6 million, including €7.7 million in council tax) and other costs (€5.7 million), which include donations and other expenses.

The reduction €1.1 million is due essentially to the adjustment to provisions linked to amounts previously set aside in relation to Land Registry Circular 6/2012 and for litigation and disputes (down €3.6 million), in addition to a decrease in the costs incurred for quality of service (down €4.0 million), primarily linked to the repayment made to Terna to cover the amount in excess of the threshold paid in 2021 to distribution companies for mitigation services (down €2.7 million, pursuant to Resolution 623/2022) and a reduction in faults and non-postponable unavailability. These decreases were partially offset by increases in indirect taxes, local taxes and levies (up €3.9 million) and in the fees paid to regulators and membership dues (up €2.1 million).

**8. Financial income/(expenses) – (€87.1) million**

(€m)

	2022	2021	CHANGE
<b>FINANCIAL EXPENSES</b>			
Financial expenses attributable to subsidiaries	(7.9)	-	(7.9)
Interest expense on medium/long-term borrowings and related hedges	(137.3)	(102.9)	(34.4)
Discounting of termination benefits ( <i>TFR</i> ) and operating leases	-	(0.1)	0.1
Capitalised financial expenses	24.8	10.8	14.0
Other financial expenses	(5.3)	(0.6)	(4.7)
<b>Total expenses</b>	<b>(125.7)</b>	<b>(92.8)</b>	<b>(32.9)</b>
<b>FINANCIAL INCOME</b>			
Dividends from subsidiaries	10.4	-	10.4
Dividends from associates	1.5	-	1.5
Financial income from subsidiaries	2.3	0.4	1.9
Adjustments to bonds in issue and the related hedges	5.5	1.2	4.3
Discounting of employee benefits and operating leases	0.1	-	0.1
Interest income and other financial income	17.0	10.9	6.1
Translation differences	1.8	1.9	(0.1)
<b>Total income</b>	<b>38.6</b>	<b>14.4</b>	<b>24.2</b>
<b>TOTAL</b>	<b>(87.1)</b>	<b>(78.4)</b>	<b>(8.7)</b>

Net financial expenses for the year amount to €87.1 million, reflecting €125.7 million in financial expenses and €38.6 million in financial income. The increase in net financial expenses compared with the previous year, amounting to €8.7 million, primarily reflects the following:

- an increase in financial expenses of €34.4 million on medium/long-term debt primarily due to rising inflation;
- an increase in capitalised financial expenses (up €14.0 million) due to increased capital expenditure during the year ;
- an increase in financial expenses attributable to subsidiaries (up €7.9 million), primarily relating to the impairment loss on the investment in Terna Plus S.r.l. (€7.0 million) following an impairment test conducted at 31 December 2022 on the carrying amount of the investment;
- the collection of dividends from the subsidiaries, Terna Interconnector (€6.5 million) and Terna Gora (€3.9 million), and from the associate, CGES (€1.5 million);
- increased financial income on financial assets (up €6.1 million).

**9. Income tax for the year – €334.8 million**

(€m)

	2022	2021	CHANGE
<b>Income tax for the year</b>			
Current tax expense:			
- IRES (corporate income tax)	300.8	265.3	35.5
- IRAP (regional tax on productive activities)	65.8	57.5	8.3
<b>Total current tax expense</b>	<b>366.6</b>	<b>322.8</b>	<b>43.8</b>
New temporary differences:			
- deferred tax assets	(41.3)	(36.5)	(4.8)
Reversal of temporary differences:			
- deferred tax assets	11.7	14.2	(2.5)
<b>Total deferred tax (income)/expense</b>	<b>(29.6)</b>	<b>(22.3)</b>	<b>(7.3)</b>
Adjustments of taxes for previous years	(2.2)	(2.8)	0.6
<b>TOTAL</b>	<b>334.8</b>	<b>297.7</b>	<b>37.1</b>

Current income tax expense for the year of €366.6 million is up €43.8 million compared with the previous year, essentially reflecting the increase in pre-tax profit and the greater amount of tax-exempt income recognised during the previous year. Net deferred tax expense of €29.6 million is down €7.3 million, primarily due to the net effect of the reversal of temporary differences, primarily connected with the impact of taxation on depreciation and amortisation.

Adjustments to taxes for previous years, amounting to a reduction of €2.2 million, reflect the overpayment of current tax expense in previous years and have decreased by €0.6 million.

The effective tax charge for the year (€334.8 million) results in a tax rate of 28.6%, in line with 2021. For a clearer presentation of the differences between the theoretical and effective tax charges, the table below reconciles the theoretical and effective tax rates for the year.

(€m)

	TAXABLE INCOME	TAX	% CHANGE
Profit before tax	1,169.5		
IRES – Theoretical tax charge (rate of 24.0%)		280.7	
IRAP – theoretical tax charge (rate of 5.10% on the operating profit of €1,256.6 million)		64.1	
		<b>344.8</b>	
<b>THEORETICAL TAX RATE</b>			<b>29.5%</b>
<i>Permanent differences in IRES</i>			
Impairments		0.3	0.0%
Non-deductible remuneration		0.8	0.1%
Contingent assets and liabilities		0.2	0.0%
Other increases		2.5	0.2%
Accelerated depreciation		(4.9)	(0.4%)
Dividends		(1.8)	(0.2%)
Tax relief (ACE – <i>Aiuto alla Crescita Economica</i> )		(5.4)	(0.5%)
IRAP at a rate of 10%		(1.3)	(0.1%)
<i>Permanent differences in IRAP</i>			
Capitalised financial expenses		1.3	0.1%
Personnel expenses		0.3	0.1%
Other increases		0.2	0.0%
<b>Effective tax rate after adjustments of taxes for previous years</b>			<b>28.8%</b>
Income tax for previous years		(2.2)	(0.2%)
<b>Total income tax expense for the year</b>		<b>334.8</b>	
<b>EFFECTIVE TAX RATE</b>			<b>28.6%</b>

#### 10. Profit/(Loss) for the year from discontinued operations and assets held for sale – (€0.6) million

This item regards the loss reported by the Uruguayan subsidiary, Difebal S.A., included in the sale of all the Terna Group's power line assets in Brazil, Peru and Uruguay under the agreement signed on 29 April 2022 with CDPQ<sup>5</sup>, a global investment group. The transaction closing for the sale of Difebal S.A., which operates a power line in Uruguay, was completed on 22 December 2022.

The revenue and cost items resulting in the net result for the year from discontinued operations and assets held for sale, amounting to a loss of €0.6 million, are shown below:

(€m)

	2022	2021	CHANGE
Revenue	0.1	0.1	-
Operating costs	0.3	-	0.3
<b>OPERATING PROFIT/(LOSS)</b>	<b>(0.2)</b>	<b>0.1</b>	<b>(0.3)</b>
Financial income/(expenses), net	0.1	0.3	(0.2)
Reversals of impairment losses/(Impairment losses) on remeasurement of the fair value less costs to sell	1.8	(10.1)	11.9
<b>PRE-TAX PROFIT/(LOSS)</b>	<b>1.7</b>	<b>(9.7)</b>	<b>11.4</b>
<b>Profit/(Loss) for the year attributable to Terna S.p.A.</b>	<b>1.7</b>	<b>(9.7)</b>	<b>11.4</b>
Net loss on sale	(2.3)	-	(2.3)
<b>Net profit/(loss) for the year attributable to discontinued operations and assets held for sale</b>	<b>(0.6)</b>	<b>(9.7)</b>	<b>9.1</b>

The loss from discontinued operations and assets held for sale, totalling €0.6 million, is increase by €9.1 million on the figure for the previous year. This essentially reflects the adjustment to the value of the discontinued operations and assets held for sale recognised in application of IFRS 5, which in the previous year had resulted in an impairment loss (up €11.9 million). In addition, the sale of the subsidiaries resulted in recognition of a net loss of €2.3 million.

<sup>5</sup> Caisse de dépôt et placement du Québec.

## C. Operating segments

In line with the requirements of "IFRS 8 – Operating segments", companies that publish a Parent Company's consolidated financial statements in a single document, together with the Company's separate financial statements, only have to present segment information in the consolidated financial statements.

## D. Notes to the statement of financial position

### Assets

#### 11. Property, plant and equipment – €14,252.9 million

(€m)

	LAND	BUILDINGS	PLANT AND EQUIPMENT	INDUSTRIAL AND COMMERCIAL EQUIPMENT	OTHER ASSETS	ASSETS UNDER CONSTRUCTION AND PREPAYMENTS	TOTAL
<b>COST AT 31 DECEMBER 2021</b>	<b>132.4</b>	<b>2,106.6</b>	<b>18,628.1</b>	<b>120.8</b>	<b>195.5</b>	<b>1,836.0</b>	<b>23,019.4</b>
Investments	-	0.3	0.4	6.0	7.8	1,361.7	1,376.2
<i>of which right-of-use assets</i>	-	0.3	-	-	1.0	-	1.3
<i>of which finance leased assets</i>	-	-	0.4	-	-	-	0.4
Assets entering service	3.7	95.4	857.9	6.8	19.8	(983.6)	-
Intragroup purchases	-	-	18.7	-	-	3.2	21.9
Intercompany sales	-	-	(0.3)	-	-	-	(0.3)
<i>of which finance leased assets</i>	-	-	(0.2)	-	-	-	(0.2)
Disposals and impairments	-	(0.3)	(100.5)	(0.2)	(2.0)	(8.3)	(111.3)
<i>of which right-of-use assets</i>	-	(0.2)	-	-	(0.4)	-	(0.6)
<i>of which finance leased assets</i>	-	-	(0.9)	-	-	-	(0.9)
Other changes	1.3	(0.7)	(28.4)	-	-	8.1	(19.7)
<b>COST AT 31 DECEMBER 2022</b>	<b>137.4</b>	<b>2,201.3</b>	<b>19,375.9</b>	<b>133.4</b>	<b>221.1</b>	<b>2,217.1</b>	<b>24,286.2</b>
<b>ACCUMULATED DEPRECIATION AND IMPAIRMENT AT 31 DECEMBER 2021</b>	<b>(0.9)</b>	<b>(694.0)</b>	<b>(8,636.8)</b>	<b>(90.4)</b>	<b>(149.9)</b>	<b>-</b>	<b>(9,572.0)</b>
Depreciation for the year	(0.3)	(53.8)	(481.3)	(5.7)	(16.3)	-	(557.4)
<i>of which right-of-use assets</i>	(0.3)	(1.4)	-	-	(0.6)	-	(2.3)
<i>of which finance leased assets</i>	-	-	(2.5)	-	-	-	(2.5)
Intercompany sales	-	-	(5.1)	-	-	-	(5.1)
Disposals	-	0.1	99.0	0.2	1.9	-	101.2
<i>of which right-of-use assets</i>	-	0.1	-	-	0.3	-	0.4
<i>of which finance leased assets</i>	-	-	0.7	-	-	-	0.7
<b>ACCUMULATED DEPRECIATION AND IMPAIRMENT AT 31 DECEMBER 2022</b>	<b>(1.2)</b>	<b>(747.7)</b>	<b>(9,024.2)</b>	<b>(95.9)</b>	<b>(164.3)</b>	<b>-</b>	<b>(10,033.3)</b>
<b>Carrying amount</b>							
<b>AT 31 DECEMBER 2022</b>	<b>136.2</b>	<b>1,453.6</b>	<b>10,351.7</b>	<b>37.5</b>	<b>56.8</b>	<b>2,217.1</b>	<b>14,252.9</b>
<i>of which right-of-use assets</i>	4.7	2.9	-	-	1.4	-	9.0
<i>of which finance leased assets</i>	-	0.6	18.3	-	-	-	18.9
<b>AT 31 DECEMBER 2021</b>	<b>131.5</b>	<b>1,412.6</b>	<b>9,991.3</b>	<b>30.4</b>	<b>45.6</b>	<b>1,836.0</b>	<b>13,447.4</b>
<i>of which right-of-use assets</i>	5.0	4.1	-	-	1.1	-	10.2
<i>of which finance leased assets</i>	-	0.6	20.8	-	-	-	21.4
<b>Change</b>	<b>4.7</b>	<b>41.0</b>	<b>360.4</b>	<b>7.1</b>	<b>11.2</b>	<b>381.1</b>	<b>805.5</b>

“Property, plant and equipment” is up €805.5 million, compared 31 December 2021, broadly due to the following movements:

- investment of €1,376.2 million during the year, including €1,358.8 million in Regulated Activities;
- the purchase, on 14 July 2022, of 8 power lines and fibre cable installed on the lines from the subsidiary, Rete S.r.l., for a consideration of €16.8 million;
- amortisation and depreciation for the year (€557.4 million);
- other movements during the year in “Property, plant and equipment”, resulting in a reduction of €20.0 million. This includes grants related to assets (primarily in relation to projects financed by the Ministry for Economic Development and the EU and the re-routing of power lines at the request of third parties) and disposals and impairment losses resulting in a reduction of €10.1 million.

The following information regards work on the principal projects during the year in relation to Regulated Activities: the start of design work for the construction of the Tyrrhenian Link (€110.8 million), the installation of synchronous compensators and STATCOM systems (€83.7 million and €38.7 million, respectively), progress on construction of the Paternò-Pantano-Priolo power line (€32.6 million), Elba-Mainland (€31.3 million), Colunga-Calenzano (€26.4 million) and the Italy-France interconnector (€17.2 million, with entry into service of the private section in November), the construction of reactors (€21.0 million), extension of the fibre network as part of the “Fibre for the Grid” project (€16.3 million), and the construction of substations at Vizzini (€18.9 million), Cerignola (€15.9 million), Magenta (€12.3 million) and Celano (€10.3 million).

## 12. Goodwill – €190.2 million

Goodwill of €190.2 million regards the goodwill resulting from the mergers with the subsidiaries RTL (€88.6 million, merged into the Company in 2008) and Terna Rete Italia S.r.l. (€101.6 million) merged in 2017.

The balance is unchanged with respect to the previous year.

## Impairment testing

### *Cash Generating Unit – Terna S.p.A.’s transmission activities*

For impairment testing purposes, Terna S.p.A.’s Regulated Activities were considered to be a cash generating unit (CGU). Measurement of the recoverable value of the goodwill allocated to the transmission activities was based on fair value less costs of disposal. Determination of the carrying amount of the CGU represented by the NTG was based on Terna S.p.A.’s net invested capital at 31 December 2022, appropriately adjusted for the assets and liabilities not falling within the scope of Transmission activities (e.g., Dispatching, Non-regulated and International activities). The recoverable amount was based on fair value after applying an EBITDA multiple to the operating profit of the CGU represented by the NTG. This multiple was calculated at the level of the Company, as the ratio between the enterprise value (the sum of the stock market capitalization and net debt) and the Company’s EBITDA. The result obtained is significantly higher than the carrying amount recognised in the financial statements inclusive of goodwill.

**13. Intangible assets – €478.5 million**

(€m)

	INFRASTRUCTURE RIGHTS	CONCESSIONS	OTHER ASSETS	ASSETS UNDER DEVELOPMENT AND PREPAYMENTS	TOTAL
Cost	525.2	135.4	406.2	73.2	1,140.0
Accumulated amortisation	(394.9)	(90.5)	(301.0)	-	(786.4)
<b>BALANCE AT 31 DECEMBER 2021</b>	<b>130.3</b>	<b>44.9</b>	<b>105.2</b>	<b>73.2</b>	<b>353.6</b>
Investments	-	-	-	210.7	210.7
Assets entering service	57.8	-	117.4	(175.2)	-
Amortisation for the year	(26.7)	(5.6)	(53.5)	-	(85.8)
<b>BALANCE AT 31 DECEMBER 2022</b>	<b>161.4</b>	<b>39.3</b>	<b>169.1</b>	<b>108.7</b>	<b>478.5</b>
Cost	583.0	135.4	523.7	108.7	1,350.8
Accumulated amortisation	(421.6)	(96.1)	(354.6)	-	(872.3)
<b>BALANCE AT 31 DECEMBER 2022</b>	<b>161.4</b>	<b>39.3</b>	<b>169.1</b>	<b>108.7</b>	<b>478.5</b>
<b>Change</b>	<b>31.1</b>	<b>(5.6)</b>	<b>63.9</b>	<b>35.5</b>	<b>124.9</b>

Intangible assets amount to €478.5 million and include:

- the infrastructure used in provision of the dispatching service in Italy accounted for in accordance with “IFRIC 12 – Service Concession Arrangements”, with the carrying amount, at 31 December 2022 of infrastructure entering service during the year amounting to €161.4 million and of those under construction, included in the category “Assets under development and prepayments”, amounting to €46.1 million (at 31 December 2021, the matching figures were €130.3 million and €32.1 million, respectively);
- the concession for electricity transmission and dispatching activities in Italy (with a carrying amount of €39.3 million at 31 December 2022). This 25-year concession was recognised in 2005, initially at fair value and subsequently at cost.

Other intangible assets primarily include software applications, either produced internally or purchased as part of systems development programmes. Investment in these assets during the year (€138.7 million) essentially regards internal development programmes.

The increase compared with the previous year (up €124.9 million) reflects the net effect of investment (€210.7 million, including €72.0 million in infrastructure rights) and amortisation (down €85.8 million).

Investment in intangible assets during the year (€210.7 million, entirely within the scope of Regulated Activities) included expenditure on the development of software applications for the Remote Management System for Dispatching (€35.6 million), the Power Exchange (€9.3 million), the Metering System (€2 million) and for protection of the electricity system (€1.9 million), as well as software applications and generic licences (€136.4 million).

## 14. Deferred tax assets – €69.9 million

(€m)

	31 DECEMBER 2021	PROVISIONS	USES AND OTHER MOVEMENTS	EFFECTS RECOGNISED IN COMPRE-HENSIVE INCOME	31 DECEMBER 2022
<b>DEFERRED TAX ASSETS</b>					
Property, plant and equipment	-	33.5	23.2	-	56.7
Provisions for risks and charges	17.0	3.1	(4.5)	-	15.6
Allowance for doubtful accounts	4.3	-	-	-	4.3
Amounts due to employees	(0.3)	4.7	(4.1)	(0.4)	(0.1)
Cash flow hedges and financial assets	44.0	-	-	(68.8)	(24.8)
Tax relief on goodwill	17.9	-	(3.0)	-	14.9
Other	6.4	-	-	-	6.4
<b>TOTAL DEFERRED TAX ASSETS</b>	<b>89.3</b>	<b>41.3</b>	<b>11.6</b>	<b>(69.2)</b>	<b>73.0</b>
<b>DEFERRED TAX LIABILITIES</b>					
Property, plant and equipment	23.2	-	(23.2)	-	-
Employee benefits and financial instruments	(3.1)	-	-	-	(3.1)
<b>TOTAL DEFERRED TAX LIABILITIES</b>	<b>20.1</b>	<b>-</b>	<b>(23.2)</b>	<b>-</b>	<b>(3.1)</b>
<b>NET DEFERRED TAX ASSETS</b>	<b>109.4</b>	<b>41.3</b>	<b>(11.6)</b>	<b>(69.2)</b>	<b>69.9</b>

The balance of this item, amounting to €69.9 million, includes the net impact of movements in the Company's deferred tax assets and liabilities.

Deferred tax assets (€73.0 million) are down by a net €16.3 million compared with the previous year, reflecting the following movements:

- uses totalling €68.8 million, reflecting the tax effect on the comprehensive income statement, primarily of movements in cash flow hedges;
- provisions of €33.5 million due to provisions for accelerated depreciation, including the net release for accrued depreciation for the year and reclassification of the balance, amounting to €23.2 million;
- net uses of €1.4 million, relating to movements during the year in provisions for risks and charges, primarily due to the tax effect on the release of provisions for quality of service (€0.6 million);
- the release of deferred tax assets recognised in relation to tax relief on the goodwill resulting from the merger with Terna Rete Italia S.r.l. (€3.0 million).

Deferred tax liabilities of €3.1 million are down €23.2 million compared with the previous year, due to the use of previous provisions for accelerated depreciation, including the net release for depreciation for the year. This resulted in the positive balance reported in deferred tax assets, as described above.



**15. Financial assets**

(€m)

	MEASUREMENT	31 DECEMBER 2022	31 DECEMBER 2021	CHANGE
Investments in subsidiaries	at cost	1,097.7	1,104.2	(6.5)
Investments in associates	at cost	44.8	44.8	-
Guarantee deposits	Amortised cost	299.1	241.4	57.7
Government securities	FVTOCI	119.6	23.1	96.5
Cash flow hedges	FVTOCI	75.5	-	75.5
Fair value hedges	FVTPL	-	1.6	(1.6)
<b>NON-CURRENT FINANCIAL ASSETS</b>		<b>1,636.7</b>	<b>1,415.1</b>	<b>221.6</b>
Government securities	FVTOCI	148.8	958.5	(809.7)
Other securities	FVTPL-FVTOCI	98.0	-	98.0
Deferred assets on fair value hedges		-	4.3	(4.3)
Deferred assets on cash flow hedges		3.5	-	3.5
Other current financial assets		4.8	17.8	(13.0)
<b>CURRENT FINANCIAL ASSETS</b>		<b>255.1</b>	<b>980.6</b>	<b>(725.5)</b>

“Non-current financial assets” includes the items described below.

The value of “Investments in subsidiaries” (€1,097.7 million) regards investments in Terna S.p.A.’s direct subsidiaries and is down €6.5 million compared with 31 December 2021. This primarily reflects the impairment loss on Terna Plus (down €7.0 million) following the impairment test conducted at 31 December 2022 on the carrying amount of the investment, offset by establishment of the new company, Terna Forward S.r.l. (up €0.5 million), a company engaged in the development of new technological solutions for use by the Terna Group.

The value of “Investments in associates” (€44.8 million) mainly regards the investments in CGES – CrnoGorski Elektroprenosni Sistem AD (€26.7 million), CESI S.p.A. (€17.5 million), CORESO S.A. (€0.2 million) and the joint operations, ELMED Etudes S.a.r.l. (€0.3 million) and Selene CC S.A. (€0.1million). The value of investments in associates at 31 December 2022 is in line with the value of the previous year.

The following table shows key information on investments in subsidiaries, associates and joint ventures owned directly by Terna S.p.A. at 31 December 2022. Amounts relate to the latest approved financial statements.

NAME	REGISTERED OFFICE	CURRENCY	SHARE CAPITAL	% INTEREST	CARRYING AMOUNT (€)
<b>SUBSIDIARIES CONTROLLED DIRECTLY BY TERNA S.P.A.</b>					
<b>Terna Rete Italia S.p.A.</b>	<b>Rome</b>	<b>Euro</b>	<b>300,000</b>	<b>100%</b>	<b>21,461,425</b>
Business	Design, construction, management, development, operation and maintenance of power lines and grid infrastructure and other grid-related infrastructure, plant and equipment used in the above electricity transmission and dispatching activities and in similar, related and connected sectors.				
<b>Terna Crna Gora d.o.o.</b>	<b>Podgorica (Montenegro)</b>	<b>Euro</b>	<b>208,000,000</b>	<b>100%</b>	<b>208,000,000</b>
Business	Authorisation, construction and operation of the transmission infrastructure forming the Italy-Montenegro interconnector on Montenegrin territory.				
<b>Terna Plus S.r.l.</b>	<b>Rome</b>	<b>Euro</b>	<b>16,050,000</b>	<b>100%</b>	<b>79,851,476</b>
Business	Design, construction, management, development, operation and maintenance of plant, equipment and infrastructure for grids and systems, including distributed storage and pumping and/or storage systems.				
<b>Terna Interconnector S.r.l.</b>	<b>Rome</b>	<b>Euro</b>	<b>10,000</b>	<b>65%*</b>	<b>19,926</b>
Business	Responsible for construction and operation of the private section of the Italy-France interconnector and civil works on the public section.				
<b>Rete S.r.l.</b>	<b>Rome</b>	<b>Euro</b>	<b>387,267,082</b>	<b>100%</b>	<b>775,559,948</b>
Business	Design, construction, management, development, operation and maintenance of high-voltage power lines.				
<b>Terna Energy Solutions S.r.l.</b>	<b>Rome</b>	<b>Euro</b>	<b>2,000,000</b>	<b>100%</b>	<b>12,282,156</b>
Business	Design, construction, management, development, operation and maintenance of distributed energy storage systems, pumping and/or storage systems, plant, equipment and infrastructure, including grids; research, consultancy and assistance in matters relating to the core business; any other activity capable of improving the use and development of plant, resources and expertise.				
<b>ESPERIA-CC S.r.l.</b>	<b>Rome</b>	<b>Euro</b>	<b>10,000</b>	<b>1%**</b>	<b>100</b>
Business	A technical centre owned by a number of transmission system operators, which acts as the regional security coordinator for the TSOs, with the aim of improving and upgrading the security and coordination of the electricity system in south-eastern Europe.				
<b>Terna Forward</b>	<b>Rome</b>	<b>Euro</b>	<b>10,000</b>	<b>100%</b>	<b>510,000</b>
Business	Development of new technological solutions for the Terna Group, investing in start-ups and small, medium and large enterprises with high innovation and technological potential.				

\* 5% is held by Terna Rete Italia S.p.A. and 30% by Transenergia S.r.l.

\*\* 99% is held by Selene CC S.A.

NAME	REGISTERED OFFICE	CURRENCY	SHARE CAPITAL	% INTEREST	CARRYING AMOUNT (€)
<b>ASSOCIATES</b>					
<b>Cesi S.p.A.</b>	<b>Milan</b>	<b>Euro</b>	<b>8,550,000</b>	<b>42.698%</b>	<b>17,563,381</b>
Business	Experimental research and provision of services related to electro-technology.				
<b>Coreso S.A.</b>	<b>Brussels (Belgium)</b>	<b>Euro</b>	<b>1,000,000</b>	<b>15.84%</b>	<b>210,742</b>
Business	Technical centre owned by several electricity transmission operators, responsible for coordinating joint operations of TSOs, in order to improve and upgrade the security and coordination of the electricity system in central and western Europe.				
<b>CGES A.D.</b>	<b>Podgorica (Montenegro)</b>	<b>Euro</b>	<b>155,108,283</b>	<b>22.0889%</b>	<b>26,694,419</b>
Business	Provision of transmission and dispatching services in Montenegro.				

\* Figures taken from the latest approved financial statements at the date of preparation of this document.

NAME	REGISTERED OFFICE	CURRENCY	SHARE CAPITAL	% INTEREST	CARRYING AMOUNT (€)
<b>JOINT VENTURES</b>					
<b>ELMED Etudes S.a.r.l.</b>	<b>Tunis (Tunisia)</b>	<b>Tunisian dinar</b>	<b>1,527,120</b>	<b>50%</b>	<b>274,917</b>
Business	Conduct of preparatory studies for construction of the infrastructure required to connect the Tunisian and Italian electricity systems.				
<b>SEleNe CC S.A.</b>	<b>Thessaloniki (Greece)</b>	<b>Euro</b>	<b>200,000</b>	<b>25%</b>	<b>50,000</b>
Business	A technical centre owned by a number of transmission system operators, which acts as the regional security coordinator for the TSOs, with the aim of improving and upgrading the security and coordination of the electricity system in south-eastern Europe.				
<b>Equigy B.V.</b>	<b>Arnhem (Netherlands)</b>	<b>Euro</b>	<b>50,000</b>	<b>20%</b>	<b>10,000</b>
Business	Provision of support for electricity balancing by TSOs through the development and implementation of blockchain technology.				

This item also includes:

- guarantee deposits (€299.1 million), including the Interconnector Guarantee Fund (€143.5 million) set up to fund investment in interconnections by art. 32 of Law 99/09 and up €19.6 million compared with the previous year. Guarantee deposits also include €155.6 million received from operators participating in the capacity market in accordance with Resolution Del.98/2011/R/eel<sup>6</sup>, as amended, registering an increase of €38.1 million compared with the previous year;
- the balance, amounting to €75.5 million, of cash flow hedges hedging bonds and bank borrowings compared with the liability recognised at 31 December 2021; the value of the hedges was measured by discounting expected cash flows using market interest rates at the measurement date;
- the value of Italian government bonds ("BTP"), amounting to €119.6 million, maturing in May 2025 and paying interest at a rate of 1.4%, registering an increase of €96.5 million compared with 31 December 2021;

"Current financial assets" are down €725.3 million compared with the previous year, primarily following the repayment of Italian government securities held (down €809.7 million), the change in accrued but yet to be collected interest on financial products (down €13.0 million, primarily on government securities), partly offset by further investment in other securities during the year (up €98.0 million).

<sup>6</sup> The regulations regarding the system of remuneration for availability of production capacity was approved by a Ministerial Decree of 28 June 2019. The deposits were paid by the energy-intensive operators after the competition held by Terna on 6 and 28 November 2019. These provide a guarantee for the entire capacity market from 2022, with the aim of ensuring the achievement and maintenance of the adequacy of the national electricity system, in order to structurally fulfil expected electricity consumption and the power reserve margins needed to meet predetermined levels of safety and quality of service.

## 16. Other assets

(€m)

	31 DECEMBER 2022	31 DECEMBER 2021	CHANGE
Loans and advances to employees	3.8	3.7	0.1
Deposits with third parties	1.3	1.3	-
Non-current receivables due from subsidiaries	2.8	1.4	1.4
<b>OTHER NON-CURRENT ASSETS</b>	<b>7.9</b>	<b>6.4</b>	<b>1.5</b>
Other tax credits	28.7	4.9	23.8
Other current assets – Interconnector Guarantee Fund	3.1	3.6	(0.5)
Prepayments to suppliers	1.0	1.5	(0.5)
Prepayments of operating expenses and accrued operating income	9.2	8.9	0.3
Amounts due from others	11.6	2.1	9.5
<b>OTHER CURRENT ASSETS</b>	<b>53.6</b>	<b>21.0</b>	<b>32.6</b>

“Other non-current assets” amount to €7.9 million, an increase of €1.5 million compared with the previous year, essentially due to amounts due from subsidiaries recognised in relation to the new Performance Share Plan 2022-2026 (up €1.4 million).

“Other current assets” of €53.6 million are up €32.6 million compared with 31 December 2021, essentially reflecting:

- the change in “Other tax credits” (up €23.8 million), primarily reflecting an increase in refundable VAT (up €24.3 million);
- an increase of €9.5 million in “Amounts due from others”, broadly due to other items to be settled recognized during the year and collected in early 2023.

## 17. Trade receivables – €2,179.4 million

(€m)

	31 DECEMBER 2022	31 DECEMBER 2021	CHANGE
Energy-related receivables	1,622.8	2,197.0	(574.2)
Transmission charges receivables	472.8	395.8	77.0
Other trade receivables	63.6	22.5	41.1
Amounts due from subsidiaries	20.2	18.0	2.2
<b>TRADE RECEIVABLES</b>	<b>2,179.4</b>	<b>2,633.3</b>	<b>(453.9)</b>

Trade receivables amount to €2,179.4 million and are accounted for less any losses on items deemed not to be recoverable and recognised in the allowance for doubtful accounts (€19.6 million for energy-related receivables and €10.1 million for other items in 2022, compared with €33.2 million for energy-related items and €9.9 million for other items in 2021, with further details provided in the section “E. Commitments and risks”). The carrying amount shown broadly approximates to fair value.

The measurement of expected credit losses is described in the section, “A. Accounting policies and measurement criteria”.

#### *Energy-related/regulated receivables – €1,622.8 million*

This item includes so-called “pass-through items” relating to the Parent Company’s activities in accordance with Resolution 111/06 (€1,260.5 million) and receivables due from the users of dispatching services forming part of Regulated Activities (€365.3 million). It also includes the amount due from the Fund for Energy and Environmental Services (*Cassa per i Servizi Energetici e Ambientali - CSEA*) (€5.9 million), relating to quality of service and output-based regulation.

These receivables are down €574.2 million compared with the end of 2021, primarily due to:

- a decrease in the Uplift (€800.2 million), reflecting the sharp reduction in energy-related costs, above all the cost of procuring services on the DSM, as partly reflected in the reduction in receivables relating to this market (€109.2 million); partly offset by the recognition of receivables related to output-based incentives (resolutions 699/2018 and 597/2021, commented on in the note to “Revenue from sales and services”);
- bonus recognised by Resolution 26/2023, so called intrazonal incentive<sup>7</sup> (€140.5 million);
- annual bonus related to the DSM incentive<sup>8</sup> (€194.2 million).

#### *Transmission charges receivable – €472.8 million*

Transmission charges receivable, amounting to €472.8 million, represent the amount due to the Parent Company and other grid owners from electricity distributors for use of the National Transmission Grid. The receivable is up €77 million compared with 31 December 2021, linked broadly to the combined impact of:

- factoring transactions completed at the end of the year 2021 (€40 million);
- revised tariffs and recognition of the accrued amount due as a return on digital substation systems in accordance with ARERA Resolution 565/2020 (totalling €37 million).

#### *Other trade receivables – €63.6 million*

Other trade receivables, totalling €63.6 million, are up €41.1 million compared with the previous year. This primarily reflects an increase in receivables resulting from Non-regulated Activities in the final quarter of the year.

#### *Amounts due from subsidiaries – €20.2 million*

This item, totalling €20.2 million, primarily regards the amount receivable from the subsidiary, Terna Rete Italia S.p.A. (€14.6 million), mainly relating to services provided in the last part of the year under existing contracts, primarily relating to the amount due on the business unit leased to this company (€6.4 million) and administrative services (€5.4 million). It also refers to amounts due from the subsidiary, Terna Plus S.r.l., for administrative services, advice and consulting services (€1.7 million) and from the subsidiary, Terna Energy Solutions S.r.l. (€1.6 million).

This item is up on the previous year (€2.2 million), broadly due to an increase in amounts due from the subsidiary, Terna Rete Italia S.p.A., for administrative services, advice and consulting services in the last part of the year (up €2.1 million), an increase in amounts due from the subsidiary, Terna Plus S.r.l. (up €1.7 million), reflecting receivables recognised in the last quarter in relation to charges for transaction costs incurred by the Company in relation to the sale of the South American companies, offset by a reduction in amounts due from the Tamini Group, amounting to €1.3 million.

<sup>7</sup> Intrazonal incentive introduced by ARERA Resolution 699/2018 determined based on the benefits deriving from grid works during the three year period 2019-2021, designed to resolve domestic congestion, grid constraints due to voltage regulation and improve conditions for essential service provision.

<sup>8</sup> DSM incentive introduced by Resolution 597/2021 related to the three year incentive system (2022-2024) designed to reduce the cost of procuring services on the DSM, the shortfall in wind production and essential services.

**18. Cash and cash equivalents – €2,202.6 million**

Cash amounts to €2,202.6 million at 31 December 2022, including €1,510.6 million in liquidity invested in readily convertible short-term deposits and €692.0 million in net deposits in bank current accounts (including a net debit balance of €172.9 million on intercompany treasury accounts).

**19. Income tax assets – €3.2 million**

Income tax assets, amounting to €3.2 million, are down €0.3 million compared with the previous year, following the use of a portion of the existing assets when settling the taxation due for 2021.

**20. Discontinued operations and assets held for sale**

Discontinued operations and assets held for sale amount to zero following completion of the sale of the Uruguayan subsidiary to CDPQ on 22 December 2022.

(€m)

	31 DECEMBER 2022	31 DECEMBER 2021	CHANGE
Non-current financial assets	35.4	33.0	2.4
Trade receivables	-	0.1	(0.1)
Current financial assets	0.3	-	0.3
Impairment recognised on the remeasurement at fair value less costs to sell	(8.3)	(10.1)	1.8
<b>TOTAL ASSETS</b>	<b>27.4</b>	<b>23.0</b>	<b>4.4</b>
Proceeds from sale of Difebal S.A.	27.4	-	27.4
<b>TOTAL DISCONTINUED OPERATIONS AND ASSETS HELD FOR SALE</b>	<b>-</b>	<b>23.0</b>	<b>(23.0)</b>

The reduction of €23.0 million, equal to the amount at 31 December 2021, includes items receivable from the Uruguayan subsidiary, relating essentially to a loan granted by Terna and the investment after the adjustment to the value of these assets recognised in application of IFRS 5.

## Equity and liabilities

### 21. Equity – €5,746.1 million

#### Share capital – €442.2 million

Terna's share capital consists of 2,009,992,000 ordinary shares with a par value of €0.22 per share.

#### Legal reserve – €88.4 million

The legal reserve accounts for 20% of the Company's share capital and is unchanged with respect to the previous year.

#### Reserve for treasury shares - (€29.5) million

In implementation of the buyback programme linked to the Performance Share Plan 2022-2026, approved by the Annual General Meeting of 29 April 2022, in the period between 27 May 2022 and 13 June 2022, the Parent Company purchased 1,280,717 own shares (equal to 0.064% of the share capital) at a cost of €10 million to service the Performance Share Plan 2022-2026.

These shares are in addition to the 3,095,192 own shares purchased by the Company in 2020 and 2021.

As a result, Terna S.p.A. now holds a total of 4,375,909 treasury shares (equal to 0.218% of the share capital), purchased at a cost of €29.5 million, thereby reducing other reserves by this amount.

#### Reserve for equity instruments – €989.0 million

On 2 February 2022, the Parent Company issued perpetual hybrid green bonds with a nominal value of €1 billion, recognised in the reserve for equity instruments at an amount of €989.0 million.

These non-convertible, perpetual, subordinated green bonds are non-callable for six years and will pay coupon interest of 2.375% until 9 February 2028, the first reset date. After this date, the bonds will pay annual interest equal to the 5-year Euro Mid-Swap rate plus a spread of 212.1 basis points. This will be increased by a further spread of 25 basis points from 9 February 2033 and by an additional 75 basis points from 9 February 2048.

#### Other reserves – €840.3 million

The other reserves have increased €225.1 million, reflecting other comprehensive income. This reflects:

- fair value adjustments to the Parent Company's cash flow hedges for variable rate loans (up €222.3 million, including the related hedging costs of €0.6 million, and after taking into account the related tax liability of €70.2 million);
- fair value adjustments to financial assets represented by government securities (down €4.4 million, after taking into account the related tax asset of €1.4 million);
- the change in actuarial gains and losses on provisions for employee benefits (up €1.4 million, taking into account the related taxation of €0.4 million).

Other reserves also reflect the change in the reserve for share options (up €5.8 million), relating to the incentive plan for the Group's personnel involving the above share-based payments (the Performance Share Plan 2022-2026<sup>9</sup>).

#### Retained earnings and accumulated losses – €2,794.9 million

The increase in "Retained earnings and accumulated losses", amounting to €129.5 million, primarily regards the remaining portion of profit for 2021 (up €150.1 million), following the Parent Company's payment of the dividend for 2021 (totalling €585.1 million) and recognition of the interest accruing on the hybrid green bonds (down €21.1 million).

<sup>9</sup> The LTI Plan 2022-2026 involves the grant of the right to the award of a certain number of shares in Terna S.p.A. (Performance Shares) free of charge at the end of a performance period, provided that the performance objectives to which the Plan is linked have been achieved.

*Interim dividend for 2022 and final dividend for 2021*

On 9 November 2022, the Company's Board of Directors, having obtained the Independent Auditor's opinion required by article 2433-bis of the Italian Civil Code, decided to pay an interim dividend of 10.61 euro cents per share. The dividend was payable from 23 November 2022, with an ex-dividend date for coupon 37 on 21 November 2022. The dividend was paid to the holders of each ordinary share outstanding, with the exception of the amount payable on treasury shares held at the record date of 22 November 2022 (amounting to €464,283.94, which was taken to retained earnings).

The Annual General Meeting of shareholders held on 29 April 2022 approved payment of a dividend for full-year 2021 of 29.11 euro cents per share, and the payment – before any withholdings required by law – of a final dividend of 19.29 euro cents per share, to be added to the interim dividend of 9.82 euro cents already paid on 24 November 2021. The final dividend was payable from 22 June 2022, with an ex-dividend date for coupon 36 of 20 June 2022.

The individual components of equity at the end of the year are shown below, specifying their origin, availability and distributability.

	31 DECEMBER 2022	POTENTIAL USE	AVAILABLE AMOUNT
<b>Share capital</b>	442.2	-	-
<b>Legal reserve:</b>			
- equity instruments – Perpetual hybrid bonds	989.0	-	-
- other	416.1	A, B, C	416.1
<b>Revenue reserves:</b>			
- legal reserve	88.4	B	88.4
- actuarial gains (losses) on employee benefits, cash flow hedges and financial assets after taxation	79.7	-	-
- reserve for share-based payments (LTI Plan)	11.0	-	-
- negative reserve for treasury shares	(29.5)	-	-
- other	333.5	A, B, C	333.5
Retained earnings and accumulated losses	2,794.9	A, B, C	2,794.9
Interim dividend	(213.3)	A, B, C	-
<b>TOTAL</b>	<b>4,912.0</b>		

Key:

A – for capital increases

B – to cover losses

C – for distribution to shareholders

The available amount includes €511.2 million in untaxed revenue reserves.



**22. Borrowings and financial liabilities**

(€m)

	31 DECEMBER 2022	31 DECEMBER 2021	CHANGE
Bond issues	5,078.9	6,925.6	(1,846.7)
Bank borrowings	3,293.4	1,888.3	1,405.1
<b>LONG-TERM BORROWINGS</b>	<b>8,372.3</b>	<b>8,813.9</b>	<b>(441.6)</b>
Cash flow hedges	-	83.7	(83.7)
Fair value hedges	247.2	-	247.2
<b>NON-CURRENT FINANCIAL LIABILITIES</b>	<b>247.2</b>	<b>83.7</b>	<b>163.5</b>
<b>SHORT-TERM BORROWINGS</b>	<b>419.5</b>	<b>1,917.6</b>	<b>(1,498.1)</b>
Bond issues	1,658.8	999.9	658.9
Bank borrowings	236.5	635.0	(398.5)
<b>CURRENT PORTION OF LONG-TERM BORROWINGS</b>	<b>1,895.3</b>	<b>1,634.9</b>	<b>260.4</b>
<b>CURRENT FINANCIAL LIABILITIES</b>	<b>44.9</b>	<b>45.7</b>	<b>(0.8)</b>
<b>TOTAL</b>	<b>10,979.2</b>	<b>12,495.8</b>	<b>(1,516.6)</b>

Borrowings and financial liabilities have decreased by €1,516.6 million compared with the previous year to €10,979.2 million.

The reduction in bond issues (down €1,187.8 million) essentially reflects repayment of a bond issue totalling €1,000.0 million. The change also reflects the adjustment of the fair value of these financial instruments.

The latest official prices at 31 December 2022 and 31 December 2021 for the bonds listed on the Luxembourg Stock Exchange are detailed below:

(€m)

	ISIN	PRICE AT 31 DECEMBER 2022	PRICE AT 31 DECEMBER 2021
Bond maturity 2022:	XS1178105851	n.a.**	100.11
Bond maturity 2023*:	XS0328430003	133.90	131.79
Bond maturity 2023:	XS1858912915	99.13	101.88
Bond maturity 2024:	XS0203712939	102.21	114.02
Bond maturity 2025:	XS2033351995	91.69	100.05
Bond maturity 2026:	XS1371569978	93.87	104.67
Bond maturity 2026:	XS1980270810	92.27	103.30
Bond maturity 2027:	XS1652866002	90.25	105.23
Bond maturity 2027:	XS2536846236	100.78	n.a.**
Bond maturity 2028:	XS1503131713	85.03	103.26
Bond maturity 2029:	XS2357205587	80.02	98.89
Bond maturity 2030:	XS2237901355	75.66	97.17
Bond maturity 2032:	XS2209023402	73.78	99.66

\* Source: BNP Paribas and Bloomberg.

\*\* Not applicable.

Compared with the previous year, bank borrowings are up €1,006.6 million, primarily due to the drawdown of new bank facilities, amounting to €1,800.0 million, after repayments of existing bank borrowings totalling €400.0 million and repayments on existing EIB loans. The change also reflects the adjustment of the fair value of these financial instruments.

### Long-term borrowings

The table below shows movements in long-term debt during the year, including also the nominal amount:

(€m)

	31 DECEMBER 2021			REPAYMENTS AND DRAWDOWNS	OTHER	CHANGE IN THE CARRYING AMOUNT	31 DECEMBER 2022			
	NOTIONAL DEBT	CARRYING AMOUNT	FAIR VALUE				NOTIONAL DEBT	CARRYING AMOUNT	FAIR VALUE	
Bond maturing 2022	1,000.0	999.9	1,001.1	(1,000.0)	-	0.1	(999.9)	-	-	-
IL bond	594.1	622.9	783.0	-	-	36.7	36.7	662.0	659.6	886.4
Bond maturing 2023	1,000.0	997.8	1,018.8	-	-	1.4	1.4	1,000.0	999.2	991.3
Bond maturing 2024	800.0	889.8	912.2	-	-	(31.6)	(31.6)	800.0	858.2	817.7
Bond maturing 2025	500.0	496.6	500.2	-	-	0.9	0.9	500.0	497.5	458.4
Private Placement 2026	80.0	79.4	83.7	-	-	0.1	0.1	80.0	79.5	75.1
Bond maturing 2026	500.0	498.5	516.5	-	-	0.4	0.4	500.0	498.9	461.3
Private Placement 2027	-	-	-	-	100.0	(0.2)	99.8	100.0	99.8	100.8
Bond maturing 2027	1,000.0	1,013.7	1,052.3	-	-	(28.8)	(28.8)	1,000.0	984.9	902.4
Bond maturing 2028	750.0	763.7	774.5	-	-	(58.1)	(58.1)	750.0	705.6	637.7
Bond maturing 2029	600.0	596.7	593.3	-	-	0.4	0.4	600.0	597.1	480.1
Bond maturing 2030	500.0	496.1	485.8	-	-	(92.3)	(92.3)	500.0	403.8	378.3
Bond maturing 2032	500.0	470.4	498.3	-	-	(116.8)	(116.8)	500.0	353.6	368.9
<b>Total bond issues</b>	<b>7,824.1</b>	<b>7,925.5</b>	<b>8,219.7</b>	<b>(1,000.0)</b>	<b>100.0</b>	<b>(287.8)</b>	<b>(1,187.8)</b>	<b>6,992.0</b>	<b>6,737.7</b>	<b>6,558.4</b>
Borrowings	2,512.6	2,512.6	2,512.6	(633.2)	1,800.0	(158.8)	1,008.0	3,524.3	3,520.6	3,520.6
Lease liabilities	10.7	10.7	10.7	(2.5)	-	1.1	(1.4)	9.3	9.3	9.3
<b>Total borrowings</b>	<b>2,523.3</b>	<b>2,523.3</b>	<b>2,523.3</b>	<b>(635.7)</b>	<b>1,800.0</b>	<b>(157.7)</b>	<b>1,006.6</b>	<b>3,533.6</b>	<b>3,529.9</b>	<b>3,529.9</b>
<b>Total debt</b>	<b>10,347.4</b>	<b>10,448.8</b>	<b>10,743.0</b>	<b>(1,635.7)</b>	<b>1,900.0</b>	<b>(445.5)</b>	<b>(181.2)</b>	<b>10,525.6</b>	<b>10,267.6</b>	<b>10,088.3</b>

At 31 December 2022, Terna has access to additional financing of €3,150.0 million, represented by two revolving credit facilities.

In addition, as provided for in IFRS 7, the table shows the fair value of borrowings and bond issues, represented by the market value based on prices at the reporting date.

The following table shows an analysis of bond issues and other borrowings by maturity, showing the related short-term portions, which do not include accrued interest payable at maturity.

(€m)

	MATURITY	31 DECEMBER 2021*	31 DECEMBER 2022*	PORTION FALLING DUE WITHIN 12 MONTHS	PORTION FALLING DUE AFTER 12 MONTHS	2024	2025	2026	2027	2028	AFTER	OTHER**	AVERAGE INTEREST RATE AT 31 DECEMBER 2022	AVERAGE INTEREST RATE AFTER HEDGES AT 31 DECEMBER 2022
	2022	999.9	-	-	-	-	-	-	-	-	-	-	0.88%	0.98%
	2023	622.9	659.6	659.6	-	-	-	-	-	-	-	-	4.90%	8.52%
	2023	997.8	999.2	1,000.0	-	-	-	-	-	-	-	(0.8)	1.00%	1.14%
	2024	889.8	858.2	-	800.0	800.0	-	-	-	-	-	58.2	4.90%	0.87%
	2025	496.6	497.6	-	500.0	-	500.0	-	-	-	-	(2.4)	1.00%	0.32%
	2026	498.5	498.8	-	500.0	-	-	500.0	-	-	-	(1.2)	1.00%	1.28%
Bonds	2026	79.4	79.5	-	80.0	-	-	80.0	-	-	-	(0.5)	0.88%	1.80%
	2027	1,013.7	984.8	-	1,000.0	-	-	-	1,000.0	-	-	(15.2)	1.38%	1.90%
	2027	-	99.8	-	100.0	-	-	-	100.0	-	-	(0.2)	3.44%	3.00%
	2028	763.7	705.6	-	750.0	-	-	-	-	750.0	-	(44.4)	1.60%	1.28%
	2029	596.7	597.2	-	600.0	-	-	-	-	-	600.0	(2.8)	0.38%	1.71%
	2030	496.1	403.8	-	500.0	-	-	-	-	-	500.0	(96.2)	0.75%	0.12%
	2032	470.4	353.6	-	500.0	-	-	-	-	-	500.0	(146.4)	0.13%	1.19%
EIB	2044	854.0	1,475.0	20.5	1,613.0	24.6	47.7	58.5	92.1	92.1	1,298.0	(158.5)	1.74%	0.97%
Terna's borrowing	2024	200.0	300.0	-	300.0	300.0	-	-	-	-	-	-	0.00%	0.49%
<b>Total fixed rate</b>		<b>8,979.5</b>	<b>8,512.7</b>	<b>1,680.1</b>	<b>7,243.0</b>	<b>1,124.6</b>	<b>547.7</b>	<b>638.5</b>	<b>1,192.1</b>	<b>842.1</b>	<b>2,898.0</b>	<b>(410.4)</b>		
EIB	2041	1,062.9	950.2	113.9	836.4	115.3	115.3	115.3	115.3	115.3	259.9	(0.1)	1.25%	0.76%
Terna's borrowing	2023	400.0	799.1	100.0	700.0	100.0	600.0	-	-	-	-	(0.9)	1.47%	1.56%
<b>Total variable rate</b>		<b>1,462.9</b>	<b>1,749.3</b>	<b>213.9</b>	<b>1,536.4</b>	<b>215.3</b>	<b>715.3</b>	<b>115.3</b>	<b>115.3</b>	<b>115.3</b>	<b>259.9</b>	<b>(1.0)</b>		
<b>TOTAL</b>		<b>10,442.4</b>	<b>10,262.0</b>	<b>1,894.0</b>	<b>8,779.4</b>	<b>1,339.9</b>	<b>1,263.0</b>	<b>753.8</b>	<b>1,307.4</b>	<b>957.4</b>	<b>3,157.9</b>	<b>(411.4)</b>		

\* The balance does not include prepaid fees of €3.7 million at 31 December 2022 and €4.3 million at 31 December 2021.

\*\* Includes portions measured at amortised cost and fair value adjustments at 31 December 2022.

(€m)

	31 DECEMBER 2021	31 DECEMBER 2022	PORTION FALLING DUE WITHIN 12 MONTHS	PORTION FALLING DUE AFTER 12 MONTHS
Finance leases	0.1	-	-	-
Operating leases	10.6	9.4	2.1	7.3
<b>TOTAL</b>	<b>10.6</b>	<b>9.4</b>	<b>2.1</b>	<b>7.3</b>

At 31 December 2022, payments on operating leases recognised in application of IFRS 16 amount to €2.4 million. The total value of the Terna Group's borrowings at 31 December 2022 is €10,262.0 million (€1,894.0 million falling due within 12 months and €8,779.4 million falling due after 12 months net of portions measured at amortised cost and fair value adjustments), of which €3,157.9 million maturing after five years.

**Non-current financial liabilities – €247.2 million**

(€m)

	31 DECEMBER 2022	31 DECEMBER 2021	CHANGE
Cash flow hedges	-	83.7	(83.7)
Fair value hedges	247.2	-	247.2
<b>TOTAL</b>	<b>247.2</b>	<b>83.7</b>	<b>163.5</b>

Non-current financial liabilities, amounting to €247.2 million at 31 December 2022, reflect the fair value of fair value hedges.

Fair value was measured by discounting the expected cash flows using the market yield curve at the reporting date. The increase of €163.5 million, compared with 31 December 2021 reflects the change in the market interest rate curve and the change in the notional value of the derivatives portfolio.

**Short-term borrowings – €419.5 million**

“Short-term borrowings”, amounting to €419.5 million at 31 December 2022, have decreased €1,498.1 million compared with the previous year, essentially reflecting the repayment of short-term loans disbursed to the Parent Company.

**Current financial liabilities – €44.9 million**

Current financial liabilities at 31 December 2022 include essentially the value of net interest expense accrued on financial instruments and not yet paid. This item is down €0.8 million compared with the previous year.

(€m)

	31 DECEMBER 2022	31 DECEMBER 2021	CHANGE
Fair value hedges	0.8	-	0.8
<b>DEFERRED LIABILITIES ON:</b>			
Hedging derivatives	0.6	4.7	(4.1)
Bond issues	33.5	39.9	(6.4)
Borrowings	10	1.1	8.9
<b>TOTAL</b>	<b>44.9</b>	<b>45.7</b>	<b>(0.8)</b>

**Net debt**

Pursuant to the CONSOB Communication of 28 July 2006 and in compliance with ESMA Recommendation no. 32-382-1138 of 2021, the Company's net debt is as follows:

	(€m)
	<b>31 DECEMBER 2022</b>
A. Cash	692.0
B. Cash equivalents*	1,510.6
C. Other current financial assets**	251.6
<b>D. Liquidity (A) + (B) + (C)</b>	<b>2,454.2</b>
E. Current financial liabilities (including debt instruments, but excluding the current portion of non-current financial liabilities)	420.3
F. Current portion of non-current debt***	1,935.9
<b>G. Current debt (D+E+F)</b>	<b>2,356.2</b>
<b>H. Net current debt (G) - (D)</b>	<b>(98.0)</b>
I. Non-current financial liabilities (excluding the current portion and debt instruments)****	3,540.6
J. Debt instruments*****	5,003.4
<b>K. Non-current net debt (I) + (J)</b>	<b>8,544.0</b>
<b>L. Net debt (H) + (K)</b>	<b>8,446.0</b>

\* Corresponds with the item, "Cash and cash equivalents" relating to the value of short-term deposits.

\*\* Corresponds with the item, "Current financial assets" relating to the value of government securities (€246.8 million) and the value of the related accrued interest income (€4.8 million).

\*\*\* Corresponds with the item, "Current portion of long-term borrowings" relating to the short-term portion of long-term borrowings (€234.4 million), the short-term portion of bond issues (€1,658.8 million) and the short-term portion of lease liabilities (€2.1 million) and the item, "Current financial liabilities" relating to the value of accrued expenses (€44.1 million) and the item, "Current financial assets" relating to the value of derivative assets (down €3.5 million).

\*\*\*\* Corresponds with the item, "Long-term borrowings" relating to the value of borrowings (€3,286.1 million) and the long-term portion of lease liabilities (€7.3 million) and the item, "Non-current financial liabilities" relating to the value of derivative liabilities (€247.2 million).

\*\*\*\*\* Corresponds with the item, "Long-term borrowings" relating to the value of bond issues (€5,078.9 million) and the item, "Non-current financial assets" relating to the value of derivative assets (down €75.5 million).

Information on the provisions in outstanding loan agreements at 31 December 2022 is provided in the notes to the consolidated financial statements.

**22. Employee benefits – €10.3 million**

Terna provides its employees with benefits during their period of employment (loyalty bonuses), on termination of employment (TFR, additional months' pay and payment in lieu of notice) and after termination in the form of post-employment benefits (energy discounts and ASEM health cover).

Loyalty bonuses are payable to the Company's employees and senior managers once certain requirements have been met regarding length of service (on completing 25 and 35 years of service).

Termination benefits (TFR) are payable to all employees, whilst employees hired by 30 June 1996 receive energy discounts, and employees (blue-collar workers, office staff and middle managers) employed prior to 24 July 2001 are due additional months' pay on termination.

Post-employment benefits consist of a form of supplementary health cover in addition to that provided by the Italian national health service, as provided for in the national collective contract for industrial managers (the ASEM).

The following table shows the composition of provisions for *TFR* and other employee benefits and movements during the year ended 31 December 2022.

(€m)

	31 DECEMBER 2021	PROVISIONS	INTEREST COST	USES AND OTHER MOVEMENTS	ACTUARIAL GAINS/(LOSSES)	31 DECEMBER 2022
<b>Benefits during the period of employment</b>						
Loyalty bonuses	1.0	(0.2)	-	-	-	0.8
<b>Total</b>	<b>1.0</b>	<b>(0.2)</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.8</b>
<b>Termination benefits</b>						
Deferred compensation benefits (TFR)	3.8	-	-	-	(0.1)	3.7
Energy discounts	0.2	-	-	(0.1)	0.1	0.2
Additional months' pay	0.5	-	-	-	-	0.5
<b>Total</b>	<b>4.5</b>	<b>-</b>	<b>-</b>	<b>(0.1)</b>	<b>-</b>	<b>4.4</b>
<b>Post-employment benefits</b>						
ASEM	6.8	0.3	0.1	(0.3)	(1.8)	5.1
<b>Total</b>	<b>6.8</b>	<b>0.3</b>	<b>0.1</b>	<b>(0.3)</b>	<b>(1.8)</b>	<b>5.1</b>
<b>Total</b>	<b>12.3</b>	<b>0.1</b>	<b>0.1</b>	<b>(0.4)</b>	<b>(1.8)</b>	<b>10.3</b>

This item, amounting to €10.3 million, is down €2.0 million compared with 31 December 2021, due primarily to the change in actuarial gains and losses (down €1.8 million).

The following table shows the current service cost and interest income and expense.

(€m)

	LOYALTY BONUS	ASEM	TOTAL
Net impact recognised in profit or loss			
- current service cost	(0.2)	0.3	0.1
- interest income and expense	-	0.1	0.1
<b>TOTAL RECOGNISED IN PROFIT OR LOSS</b>	<b>(0.2)</b>	<b>0.4</b>	<b>0.2</b>

Revaluation of the net liability for employee benefits is shown in the following table, which provides details of the type of actuarial gain or loss recognised in other comprehensive income.

(€m)

	TFR	ENERGY DISCOUNTS	ASEM	TOTAL
Actuarial gain/(losses)				
- based on past experience	0.6	0.1	1.0	1.7
- due to changes in discount rate	(0.7)	-	(2.8)	(3.5)
<b>TOTAL IMPACT ON COMPREHENSIVE INCOME</b>	<b>(0.1)</b>	<b>0.1</b>	<b>(1.8)</b>	<b>(1.8)</b>

Finally, the following tables show the main actuarial assumptions applied, a sensitivity analysis of movements in the assumptions and the payment schedule for the plan. In line with 2021, the interest rate used to determine the present value of the obligation was calculated on the basis of the yield on the Iboxx Eurozone Corporates AA index at Iboxx Eurozone Corporates AA at 31 December 2022, matching the duration of the relevant group of plan participants.

(€m)

	LOYALTY BONUSES	TFR	ADDITIONAL MONTHS' PAY	ENERGY DISCOUNTS	ASEM
Discount rate	3.68%	3.77%	3.57%	3.63%	3.77%
Inflation rate	2.30%	2.30%	-	-	2.70%
Duration (in years)	17.03	7.04	4.51	3.48	15.99

(€m)

	LOYALTY BONUSES	TFR	ADDITIONAL MONTHS' PAY	ENERGY DISCOUNTS	ASEM	TOTAL
Discount rate +0.25%	0.7	3.7	0.4	0.3	5.0	10.1
Discount rate -0.25%	0.7	3.8	0.4	0.3	5.4	10.6
Inflation rate +0.25%	0.8	3.8	n/a	n/a	n/a	4.6
Inflation rate -0.25%	0.7	3.7	n/a	n/a	n/a	4.4
Annual rate of increase in health costs +3%	n/a	n/a	n/a	n/a	5.2	5.2
Annual rate of increase in health costs -3%	n/a	n/a	n/a	n/a	5.3	5.3

(€m)

	LOYALTY BONUSES	TFR	ADDITIONAL MONTHS' PAY	ENERGY DISCOUNTS	ASEM	TOTAL
By the end of 2023	-	0.4	0.2	0.3	0.3	1.2
By the end of 2024	-	0.3	0.1	0.1	0.3	0.8
By the end of 2025	0.1	0.6	-	0.1	0.4	1.2
By the end of 2026	0.1	0.5	-	-	0.4	1.0
By the end of 2027	0.1	0.1	-	-	0.4	0.6
After 5 years	0.5	1.8	0.2	(0.3)	3.3	5.5
<b>TOTAL</b>	<b>0.8</b>	<b>3.7</b>	<b>0.5</b>	<b>0.2</b>	<b>5.1</b>	<b>10.3</b>

## 24. Provisions for risks and charges – €97.4 million

(€m)

	PROVISIONS FOR LITIGATION AND DISPUTES	PROVISIONS FOR SUNDRY RISKS AND CHARGES	PROVISIONS FOR EARLY RETIREMENT INCENTIVES	TOTAL
<b>Amount at 31 December 2021</b>	<b>16.8</b>	<b>65.9</b>	<b>22.0</b>	<b>104.7</b>
New provisions	1.9	15.5	11.8	29.2
Uses and other movements	(7.4)	(22.2)	(6.9)	(36.5)
<b>Amount at 31 December 2022</b>	<b>11.3</b>	<b>59.2</b>	<b>26.9</b>	<b>97.4</b>

### Provisions for litigation and disputes – €11.3 million

These provisions, set aside to cover outstanding liabilities that, at the end of the year, could result from court judgements and out-of-court settlements regarding the activities of Group companies, have been assessed partly on the basis of recommendations from internal and external legal advisors. The balance at 31 December 2022, totalling €11.3 million, primarily regards disputes involving the Company in relation to the payment of damages relating to operation and maintenance, requests for compensation for easements and labour and social security disputes. This is down €5.5 million compared with the previous year as a result of lower net provisions during the year.

### Provisions for sundry risks and charges – €59.2 million

These provisions amount to €59.2 million at 31 December 2022 and essentially regard liabilities associated with urban and environmental restoration projects, regulation of the quality of the electricity service, staff incentive plans, right-of-way fees and tax-related aspects.

Compared with the previous year, the provisions are down by a net €6.7 million, reflecting:

- net uses for staff incentive plans, totalling €1.9 million;
- net uses for urban and environmental restoration schemes (€4.4 million);
- a net decrease of €1.9 million in provisions linked to regulation of the quality of the electricity service (the mitigation and sharing mechanism introduced by ARERA Resolution 653/2015/R/eel) which, after provisions for estimated penalties linked to outages during the year, reflects payments to distribution companies and releases following final determination of the penalties due to previous years.

### Provisions for early retirement incentives – €26.9 million

Provisions for early retirement incentives reflects the estimated extraordinary expenses to be incurred in relation to the cost of the scheme for the year, linked to the early retirement of Company employees who have reached pensionable age and where the Company has an obligation. This item has increased by a net €4.9 million, reflecting payments in coming years in relation to the existing plan for generational turnover.

### 25. Other non-current liabilities – €397.1 million

This item, amounting to €397.1 million at 31 December 2022, regards the amount payable to Terna Rete Italia S.p.A., resulting from the transfer of net liabilities included in the operations leased to this subsidiary (€25.3 million), accrued grants related to assets receivable (€69.4 million) and the Interconnector Guarantee Fund (€146.8 million) set up by the 2016 Stability Law, in order to fund investment in interconnections by art. 32 of Law 99/09. This item also includes guarantee deposits received from operators participating in the capacity market and electricity market operators guaranteeing their obligations assumed in dispatching and virtual interconnection agreements (€155.6 million).

The increase in this item compared with the previous year, amounting to €50.5 million, essentially reflects an increase in the Interconnector Guarantee Fund (up €19.5 million) and an increase in the guarantee deposits received from operators and subsequent modifications and additions (up €38.1 million), after settlement of a part of the liabilities included in the leased business unit (down 2.0 million), with particular regard to the termination benefits (*TFR*) payable to personnel participating in the generational turnover plan, and the release of portions of grants related to assets (a reduction of €5.1 million).

### 26. Current liabilities

(€m)

	31 DECEMBER 2022	31 DECEMBER 2021	CHANGE
Short-term borrowings*	419.5	1,917.6	(1,498.1)
Current portion of long-term borrowings*	1,895.3	1,634.9	260.4
Trade payables	3,515.9	3,090.9	425.0
Tax liabilities	50.8	33.9	16.9
Current financial liabilities*	44.9	45.7	(0.8)
Other current liabilities	533.2	389.6	143.6
<b>TOTAL</b>	<b>6,459.6</b>	<b>7,112.6</b>	<b>(653.0)</b>

(\*) Information on these items is provided in note 22, "Borrowings and financial liabilities".



**Trade payables – €3,515.9 million**

(€m)

	31 DECEMBER 2022	31 DECEMBER 2021	CHANGE
<b>Suppliers:</b>			
- Energy-related payables	2,673.3	2,378.7	294.6
- Non-energy-related payables	150.7	115.3	35.4
Non-energy-related payables due to subsidiaries	688.5	594.9	93.6
Amounts due to associates	2.6	1.2	1.4
Payables resulting from contract work in progress	0.8	0.8	-
<b>TOTAL</b>	<b>3,515.9</b>	<b>3,090.9</b>	<b>425.0</b>

**Suppliers***Energy-related/regulated payables*

The increase of €294.6 million in this item compared with the end of 2021 essentially reflects energy-related pass-through payables (€253.4 million). The increase in these payables is primarily due to:

- an increase in payables linked to plants that are essential for the security of the electricity system – UESS (€446.2 million) reflecting a reduction in amounts collected to cover the costs awarded to owners of the plants by ARERA in 2022<sup>10</sup>;
- amounts payable in the form of capacity payments (€207.4 million) effective from 1 January 2022;
- an increase in payables due to imbalances (€66 million);
- increased net payables related to virtual import services (€41.8 million) resulting from the settlement of amounts due to the backers of interconnectors, applied on a transitional basis until the final procedure for settlements takes effect through the shippers to be selected by Terna<sup>11</sup>;

partly offset by:

- a reduction in payables linked to DSM transactions and services (€507.2 million) due to reduced selections for grid constraints<sup>12</sup> throughout most of the year.

*Non-energy related payables*

The exposure to suppliers regards invoices received and to be received for contract work, services and purchases of materials and equipment.

The increase compared with the previous year (up €35.4 million) is largely due to an increase in activity towards the end of the year.

*Non-energy-related payables due to subsidiaries*

This item, totalling €688.5 million, is up €93.6 million compared with the previous year, primarily due to the increased amount payable to Terna Rete Italia S.p.A. (up €93.7 million) as a result of the greater volume of capital expenditure carried out towards the end of the year, compared with the same period of 2021.

<sup>10</sup> ARERA ordered payments to the owners of essential plants in the following resolutions: 42-43-67-76-92-131-172-214-223-237-267-319-362-656-657-658-659-660-661-662-663-664-665-666-667/2022.

<sup>11</sup> ARERA revised the method for settling amounts payable for virtual imports in resolutions 49/2022 and 93/2022.

<sup>12</sup> In resolutions 597/2021 and 132/2022, ARERA has established an output-based incentive scheme to be applied to Terna with the aim of cutting dispatching costs.

*Amounts due to associates*

This item, amounting to €2.6 million, is up €1.4 million compared with the previous year, reflecting a reduction in amounts payable to the associate, CESI S.p.A., for services provided to the Company, relating to electro technical studies and research.

The commitments assumed by the Company towards suppliers amount to approximately €337.7 million and regard purchase commitments linked to the normal “operating cycle” projected for the period 2023-2027.

**Tax liabilities – €50.8 million**

This item amounts to €50.8 million at 31 December 2022, an increase of €16.9 million compared with the balance at 31 December 2021, reflecting an increase in tax payable for the period (essentially due to the increase in pre-tax profit) after a reduction in payments on account made during the year.

**Other current liabilities – €533.2 million**

(€m)

	31 DECEMBER 2022	31 DECEMBER 2021	CHANGE
Prepayments	147.2	87.7	59.5
Other tax liabilities	84.5	84.6	(0.1)
Social security payables	7.7	6.6	1.1
Amounts due to personnel	14.2	14.7	(0.5)
Amounts due to subsidiaries	0.6	2.1	(1.5)
Other amounts due to third parties	279.0	193.9	85.1
<b>TOTAL</b>	<b>533.2</b>	<b>389.6</b>	<b>143.6</b>

*Prepayments*

This item (€147.2 million) regards grants related to assets collected by the Company to fund the construction of non-current assets in progress at 31 December 2022.

Compared with the balance at 31 December 2021 (€87.7 million), the balance is up €59.5 million, essentially due to the impact of grants deducted directly from the carrying amount of the related assets, totalling €16.8 million, and new prepayments from third parties.

*Other tax liabilities*

Other tax liabilities, amounting to €84.5 million, regard withholding tax payable on salaries paid at the end of the year, in addition to the balance of the Group’s VAT at the end of the year.

This item is in line with the balance at 31 December 2021.

#### *Social security payables*

Social security payables, essentially relating to employee contributions payable to INPS (the National Institute of Social Security), amount to €7.7 million. This is broadly in line with the figure for the previous year.

#### *Amounts due to personnel*

Amounts due to personnel, amounting to €14.2 million, primarily regard:

- staff incentives and early retirement incentives payable in the subsequent year (€9.4 million);
- amounts due to employees in the form of accrued and unused annual leave and bank holiday entitlements (€3.8 million).

The decrease of €0.5 million in this item compared with the previous year primarily reflects the rise in amounts due to employees in the form of accrued and unused annual leave and bank holiday entitlements (up €0.7 million) and an increase in incentives payable to personnel (down €1.4 million).

#### *Other amounts due to subsidiaries*

Amounts due to subsidiaries, totalling €0.6 million, regard the amount payable to Terna Interconnector S.r.l., primarily in the form of compensation payable in relation to the interconnector with France (€0.6 million).

This item is down €1.5 million compared with the previous year, primarily due to recognition of the above VAT payable in the previous year, which was settled in early 2022.

#### *Other payables due to third parties*

Other payables due to third parties, amounting to €279.0 million, essentially relate to guarantee deposits (€224.3 million) received from electricity market operators to guarantee their contractual obligations under dispatching and virtual interconnection contracts. This item also includes deferred income (€12.9 million, primarily attributable to Non-regulated Activities), dividends payable (€18.9 million) and coupon interest payable to the holders of hybrid instruments issued during the year (€21.1 million).

The increase of €85.1 million in this item compared with 31 December 2021 essentially reflects the greater amount of guarantee deposits collected during the year (up €53.9 million), an increase in dividends payable (up €7.5 million) and the recognition of the coupon interest payable to the holders of hybrid instruments (€21.1 million).

## E. Commitments and risks

### Risk management

In the course of its operations, Terna is exposed to different financial risks: market risk, liquidity risk and credit risk. This section provides information regarding Terna's exposure to all the above risks, along with a presentation of the objectives, policies and processes for managing those risks and the methods used to assess them, with further quantitative disclosures concerning the separate financial statements for 2022.

Terna's risk management policies seek to identify and analyse the risks that the Company is exposed to, establishing appropriate limits and controls and monitoring the risks and compliance with such limits. These policies and the related systems are reviewed on a regular basis, in order to take account of any changes in market conditions or in the Company's operations. As a part of the financial risk management policies approved by the Board of Directors, Terna S.p.A. has established the responsibilities and operating procedures for financial risk management, specifically as concerns the instruments to be used and the precise operating limits to apply in managing them. The main financial statement items exposed to the above risks are shown below.

(€m)

	31 DECEMBER 2022			31 DECEMBER 2021		
	RECEIVABLES AT AMORTISED COST	FAIR VALUE	TOTAL	RECEIVABLES AT AMORTISED COST	FAIR VALUE	TOTAL
<b>Assets</b>						
Derivative financial instruments	-	75.5	75.5	-	1.6	1.6
Cash on hand and government securities	2,202.6	366.5	2,569.1	1,619.8	981.5	2,601.3
Trade receivables	2,179.4	-	2,179.4	2,633.3	-	2,633.3
<b>TOTAL</b>	<b>4,382.0</b>	<b>442.0</b>	<b>4,824.0</b>	<b>4,253.1</b>	<b>983.1</b>	<b>5,236.2</b>

(€m)

	31 DECEMBER 2022			31 DECEMBER 2022		
	PAYABLES AT AMORTISED COST	FAIR VALUE	TOTAL	PAYABLES AT AMORTISED COST	FAIR VALUE	TOTAL
<b>Liabilities</b>						
Long-term debt	10,267.6	-	10,267.6	10,448.8	-	10,448.8
Derivative financial instruments	-	247.9	247.9	-	83.7	83.7
Trade payables	3,515.9	-	3,515.9	3,090.9	-	3,090.9
<b>TOTAL</b>	<b>13,783.5</b>	<b>247.9</b>	<b>14,031.4</b>	<b>13,539.7</b>	<b>83.7</b>	<b>13,623.4</b>

### Market risk

Market risk is the risk that the fair value or future cash flows of a financial instrument may fluctuate as a result of changes in financial market conditions. Market risk includes three types of risk: exchange rate risk, interest rate risk and inflation risk.

Risk management must be performed with the objective of minimising the related risks by selecting counterparties and instruments compatible with the Company's Risk Management Policy. Speculative activity is not form part of the Company's activities.

The Terna Group seeks to adopt a dynamic approach to financial risk management. This approach is characterised by risk aversion, aimed at minimising risk through continuous monitoring of financial markets in order to obtain new financing and conclude hedging transactions in favourable market conditions. The dynamic approach enables the Group to intervene in order to improve existing hedges should there be a change in market conditions or changes in the hedged item, making the hedges inappropriate or excessively costly.

The fair value of financial instruments is determined in accordance with the fair value hierarchy envisaged under IFRS 7 (Level 2), by means of appropriate valuation techniques for each category of financial instrument, using market data at the closing date (such as interest rates, exchange rates and volatility) and discounting projected cash flows on the basis of the market yield curve at the reporting date.

## Interest rate risk

Interest rate risk is represented by the uncertainty associated with interest rate fluctuations. This is the risk that a change in market interest rates may produce effects on the fair value or future cash flows of financial instruments.

In the course of its operations, Terna is exposed to the risk of fluctuations in interest rates. Its main source of interest rate risk is associated with its borrowings and the related hedges in the form of derivative instruments that generate financial expenses. Terna's borrowing strategy focuses on long-term borrowings, whose term reflects the useful life of the Company's assets. It pursues an interest rate risk hedging policy that aims to guarantee that the percentage of debt represented by fixed rate liabilities is at least 40%, as provided for in the relevant policies. Considering the low level of interest rates and the new regulatory review, all debt is now fixed rate.

At 31 December 2022, interest rate risk is hedged by cash flow hedges, which hedge the risk connected with movements in interest rates relating to long-term borrowings.

Below are the notional amounts and fair values of the derivative financial instruments entered into by Terna:

(€m)

	31 DECEMBER 2022		31 DECEMBER 2021		CHANGE	
	NOTIONAL	FAIR VALUE	NOTIONAL	FAIR VALUE	NOTIONAL	FAIR VALUE
Fair value hedges	1,973.5	(247.9)	1,700.0	1.6	273.5	(249.5)
Cash flow hedges	1,996.3	75.5	3,241.0	(83.7)	(1,244.7)	159.2

The notional amount of outstanding cash flow hedges at 31 December 2022, amounting to €1,996.3 million, breaks down as follows:

- €100.0 million (fair value gain of €1.9 million) maturing 2023;
- €1,496.3 million (fair value gain of €69.0 million) maturing 2024;
- €200.0 million (fair value gain of €1.8 million) maturing 2025;
- €200.0 million (fair value gain of €2.8 million) maturing 2028.

The notional amount of outstanding fair value hedges at 31 December 2022, amounting to €1,973.5 million, breaks down as follows:

- €100.0 million (fair value loss of €0.8 million) maturing 2023;
- €950.0 million (fair value loss of €90.2 million) maturing 2030;
- €343.5 million (fair value loss of €51.9 million) maturing 2039;
- €490.0 million (fair value loss of €88.1 million) maturing 2042;
- €90.0 million (fair value loss of €17.0 million) maturing 2043.

## Sensitivity to interest rate risk

Terna has floating-to-fixed interest rate swaps in place to manage the risk of movements in interest rates.

Since the hedging relationship between the derivative and the hedged item is formally documented and the effectiveness of the hedge, as verified initially and periodically over its life, is high, the Company has elected to use hedge accounting to ensure a perfect match between the maturities of the hedge and the hedged item. The aim of hedge accounting is to recognise the effects of the hedges and the hedged items in profit or loss at the same time.

As a result:

- in the case of fair value hedges, changes in the fair value of the hedged item, attributable to the hedged risk, must be accounted for in profit or loss, where they are offset against changes in the fair value of the derivative;
- in the case of cash flow hedges, changes in the fair value of the derivative must be recognised in “Other comprehensive income” (recognising any ineffective portion immediately through profit or loss) and then recycled through profit or loss in the same period in which the cash flows of the hedged instrument materialise.

The following table reports the amounts recognised through profit or loss and in “Other comprehensive income” for positions that are sensitive to changes in interest rates, in addition to the theoretical value of the positions following a positive or negative shift in the yield curve and the differential impact of such changes recognised through profit or loss and in “Other Comprehensive Income”. A hypothetical 10% movement in interest rates with respect to market interest rates at the reporting date was assumed:

	(€m)					
	PROFIT OR LOSS			OCI		
	CURRENT RATES +10%	CURRENT VALUES	CURRENT RATES -10%	CURRENT RATES +10%	CURRENT VALUES	CURRENT RATES -10%
<b>31 December 2022</b>						
Positions sensitive to interest rate variations (FVHs, bond issues, CFHs)	5.0	<b>3.6</b>	2.1	169.8	<b>159.1</b>	148.3
<i>Hypothetical change</i>	1.4	-	(1.4)	10.7	-	(10.8)
<b>31 December 2021</b>						
Positions sensitive to interest rate variations (FVHs, bond issues, CFHs)	1.4	<b>1.3</b>	1.2	169.5	<b>167.7</b>	165.9
<i>Hypothetical change</i>	0.1	-	(0.1)	1.8	-	(1.8)

Regulators around the world have launched a reform of IBOR (Interbank Offered Rates), which are used as the benchmark for most financial instruments sold throughout the world, with the aim of restoring confidence in the benchmark. The transition from EONIA to ESTER took place in 2022 without any significant impact. The Group is continuing to closely monitor the market and the results produced by the various working groups overseeing the transition to the new benchmark rates for the other maturities (EURIBOR). Management is aware of the associated risks and, for this reason, the Group plans to complete the transition in step with the change in the related legislation. At the same time, all the new financial contracts contain fallback provisions governing the transition period.

## Inflation risk

As regards inflation risk, the rates established by the regulator to provide a return on Terna S.p.A.'s activities are determined so as to cover the allowed costs. Such cost components are updated on an annual basis to take into account the impact of inflation. Having used an inflation-linked bond issue in 2007, the Company has put in place a partial hedge of net income; in fact, any decrease in expected revenue due to a decrease in the inflation rate would be offset by lower financial expenses and viceversa.

## Exchange rate risk

The management of exchange rate risk must aim to protect a company's earnings from the risk of currency fluctuations by keeping a close eye on market movements and constantly monitoring the existing exposures. In managing this risk, Terna from time to time selects hedging instruments with structures and durations matching the Company's exchange rate exposure. The instruments used by Terna are of limited complexity, highly liquid and easy to price, such as forwards and options. Such contracts have a notional amount and maturity date less than or equal to that of the underlying financial liability, or the expected cash flows, so that any change in the fair value and/or estimated cash flows deriving from a rise or fall in the euro against other currencies is fully offset by a corresponding change in the fair value and/or estimated cash flows of the underlying position.

At 31 December 2022, the component of financial instruments associated with exchange rate risk is residual in nature and attributable to the investments in Latin America.

## Liquidity risk

Liquidity risk is the risk that Terna might encounter difficulty in discharging its obligations in respect of its financial liabilities and operating cycle. Liquidity risk management seeks to ensure adequate coverage of borrowing requirements by obtaining adequate lines of credit and appropriate management of any surplus liquidity.

At 31 December 2022, Terna has available short-term credit facilities of approximately €885 million (out of total facilities of approximately €995 million), revolving credit facilities of €3,150 million and facilities agreed.

## Credit risk

Credit risk is the risk a customer or one of the counterparties to a transaction in financial instruments could cause a financial loss by failing to discharge an obligation. It is mainly generated by the Company's trade receivables and financial investments.

The credit risk originated by open positions on transactions in derivatives is considered to be marginal since the counterparties, in compliance with the financial risk management policies adopted, are leading international banks with high ratings.

Terna provides its services essentially to counterparties considered solvent by the market, and therefore with a high credit standing, and does not have high concentrations of credit risk.

Credit risk management is driven by the provisions of ARERA Resolution 111/06, which, in art. 49, introduced instruments designed to limit the risks related to the insolvency of dispatching customers, both on a preventive basis and in the event of an actual insolvency. In particular, the Resolution establishes three instruments to safeguard the electricity market: a guarantee system (bank guarantees provided by individual dispatching customers, based on their turnover); the option of terminating dispatching contracts (in the event of insolvency or failure to replace enforced guarantees); and, finally, the possibility of recovering uncollected debts, after having taken all other possible collection actions, through a specific fee to be fixed by the regulator.

The following table summarises the exposure to such risk at the reporting date:

	31 DECEMBER 2022	31 DECEMBER 2021	CHANGE
Derivative financial instruments	75.5	1.6	73.9
Cash and cash equivalents	2,202.6	1,619.8	582.8
Trade receivables	2,179.4	2,633.3	(453.9)
<b>TOTAL</b>	<b>4,457.5</b>	<b>4,254.7</b>	<b>202.8</b>

(€m)

The total value of the exposure to credit rate risk at 31 December 2022 is represented by the carrying amount of trade receivables, cash and cash equivalents and cash flow hedges.

The following tables provide qualitative information on trade receivables regarding the geographical distribution and type of customer.

### Geographical distribution

(€m)

	31 DECEMBER 2022	31 DECEMBER 2021
Italy	2,030.4	2,139.2
Euro-area countries	140.4	466.8
Other countries	8.6	27.3
<b>Total</b>	<b>2,179.4</b>	<b>2,633.3</b>

### Customer type

(€m)

	31 DECEMBER 2022	31 DECEMBER 2021
Distributors	472.8	395.8
CSEA	94.3	138.4
Dispatching customers for injections	826.2	755.1
Dispatching customers for withdrawals	682.0	1,288.0
Parties which have signed virtual import contracts and virtual import services (interconnectors and shippers)	11.8	13.8
Sundry receivables	92.3	42.2
<b>Total</b>	<b>2,179.4</b>	<b>2,633.3</b>

The following table breaks down customer receivables by due date, reporting any potential impairment.

(€m)

	31 DECEMBER 2022		31 DECEMBER 2021	
	IMPAIRMENT	GROSS	IMPAIRMENT	GROSS
Current	(0.3)	1,974.2	(0.3)	2,576.9
0-30 days past due	-	18.2	0.1	24.9
31-120 days past due	(0.2)	51.1	(0.1)	6.1
Over 120 days past due	(29.2)	165.6	(42.8)	68.5
<b>Total</b>	<b>(29.7)</b>	<b>2,209.1</b>	<b>(43.1)</b>	<b>2,676.4</b>

Movements in the allowance for doubtful accounts in the course of the year were as follows.

(€m)

	31 DECEMBER 2022	31 DECEMBER 2021
Balance at 1 January	(43.1)	(45.2)
Release of provisions	13.6	2.2
Impairments for the year	(0.2)	(0.1)
<b>Balance at 31 December</b>	<b>(29.7)</b>	<b>(43.1)</b>



The value of guarantees received from eligible electricity market operators is illustrated below.

	(€m)	
	31 DECEMBER 2022	31 DECEMBER 2021
Dispatching - injections	249.7	265.1
Dispatching – withdrawals	1,665.8	1,349.2
Transmission charges due from distributors	329.3	334.3
Virtual imports	269.6	134.3
Capacity market (*)	181.4	129.5
<b>Balance</b>	<b>2,695.8</b>	<b>2,212.4</b>

(\*) Guarantees relating to Capacity Market contracts to be executed from 2023.

Non-regulated Activities are exposed to “counterparty risk”, in particular in relation to the entities with which sales contracts are entered into, in consideration of the credibility and solvency of the parties in question and the impact that their possible insolvency could have on the financial strength of the business. Counterparty risk is mitigated by implementing special procedures to assess counterparties, measuring operating, financial and reputational aspects of the counterparties in question.

## Default risk and debt covenants

This risk is associated with the possibility that the loan agreements or bond terms and conditions to which the Company is a party may contain provisions authorising counterparties to call in such loans immediately upon the occurrence of certain events, thereby generating liquidity risk. More information on the contractual provisions of outstanding borrowings at 31 December 2022, is provided in the section, “Borrowings and financial liabilities” in the notes to Terna S.p.A.’s consolidated financial statements.

## Parent company guarantees issued on behalf of subsidiaries

The Company has issued parent company guarantees to third parties to guarantee the fulfilment of certain contractual obligations assumed by its subsidiaries, with the Company’s maximum exposure at 31 December 2022 amounting to €1,271.51 million. This breaks down as follows: €459.21 for Terna Interconnector S.r.l., €658.1 million for Terna Rete Italia S.p.A., €88.3 million for Rete S.r.l., €12.3 million for Terna Perù S.r.l., €2.8 million for Terna energy solutions S.r.l., €1.1 million for Terna Plus S.r.l., €49.7 million for Linea Verde II.

## Bank guarantees

Bank guarantees issued to third parties and on behalf of Group companies amount to €183.6 million at 31 December 2022 and break down as follows: €76.5 million on behalf of Terna S.p.A., €61.9 million on behalf of Terna Rete Italia S.p.A., €39.2 million on behalf of Terna Interconnector S.r.l., €0.1 million on behalf of Terna Plus S.r.l., €5.8 million on behalf of Terna Energy Solutions S.r.l and €0.1 million on behalf of Terna Chile S.r.l..

## Litigation

The main commitments and risks not disclosed in the statement of financial position at and for the year ended 31 December 2022, relating to the Company are described below.

## Environmental and urban planning litigation

Part of environmental litigation deriving from the construction and operation of Terna's power plants, consists of legal actions taken against the alleged negative effects of electric and magnetic fields generated by power lines.

In general, this litigation necessarily involves the Company, which owns the infrastructure in question.

Moreover, it cannot be ruled out that the parties concerned may also initiate legal proceedings against the subsidiary Terna Rete Italia S.p.A., as the electromagnetism generated by power lines relates not only to ownership of the plant, but also to its operation and the quantity and quality of electricity it transports.

Regarding this matter, it should be noted that the issue of the Cabinet Office Decree of 8 July 2003 – which specifically set the values of the three parameters (exposure limits, safety thresholds and quality targets) provided for in Framework Law 36 of 22 February 2001, which electricity infrastructure must comply with – led to a significant reduction in any such litigation.

Other environmental and urban planning disputes, which do not relate to electromagnetic fields, are also pending with regard to Terna S.p.A.. These disputes are connected with the operation of certain Terna-owned plant, which in the event of an unfavourable outcome could also generate immediate effects for Terna Rete Italia S.p.A. (to date unforeseeable and therefore not included in "Provisions for litigation and sundry risks"), both as the entity appointed by Terna S.p.A. to build the related infrastructure and as the entity responsible for its operation. In particular, charges may arise for the subsidiary Terna Rete Italia S.p.A., connected with changes to the infrastructure involved in such disputes and its temporary unavailability. However, after examination of the disputes in question by Terna S.p.A. and external counsel appointed by the Company, it appears that the possibility of any negative outcomes is remote.

## Litigation regarding the legitimacy of construction permits and plant operations

Another aspect of litigation connected with the plant owned by the Company derives from legal actions brought before the competent administrative courts, aimed at obtaining the annulment of decisions granting consent for the construction and operation of infrastructure.

## Litigation relating to activities carried out under concession

As the operator of transmission and dispatching activities since 1 November 2005, the Company has been a party in a number of court cases, most of which have contested determinations adopted by ARERA (Italy's Regulatory Authority for Energy, Networks and the Environment), and/or the Ministry for Economic Development (now the Ministry for the Ecological Transition), and/or the Ministry for Economic Development, and/or Terna, in relation to these activities. In cases in which the plaintiffs have, in addition to inherent defects in the contested determinations, alleged violation of the regulations laid down by the aforementioned authorities, or in cases in which the determination has had an impact on Terna, the Company has also taken action to defend its interests through the legal system. Within the scope of such litigation – even though some cases have been concluded, at first and/or second instance, with the annulment of ARERA's resolutions and, when applicable, of the consequent determinations adopted by Terna – any negative outcomes for the Company itself may be deemed unlikely, as these disputes normally relate to pass-through items.

## F. Business combinations

There were no business combinations in 2022.

## G. Related party transactions

Given that Terna S.p.A. is subject to the *de facto* control of Cassa Depositi e Prestiti S.p.A. (registered office at Via Goito 4, 00185 Rome, Italy and consolidated financial statements available on the website at [www.cdp.it](http://www.cdp.it)), a situation ascertained in 2007, related party transactions entered into by Terna during the year include transactions with the associates (Cesi S.p.A., Coreso S.A. and CGES) and employee pension funds (Fondenel and Fopen), as well as transactions with Cassa Depositi e Prestiti itself, with CDP Reti S.p.A. and with the companies directly or indirectly controlled by the Ministry of the Economy and Finance (“MEF”).

Given that Terna S.p.A. and the above companies meet the definition for classification as “government-related entities”, in accordance with IAS 24 – *Related Party Disclosures*, the Company has elected to adopt the partial exemption – permitted by the standard – from the disclosure requirements in respect of other companies controlled, influenced or jointly controlled by the same government entity. The remainder of this section provides qualitative and quantitative disclosures on transactions with government-related entities having a significant impact on the Company’s results. Amounts relating to pass-through items are not included in these disclosures.

Related party transactions in 2022 broadly regard the provision of services in the course of ordinary activities and conducted on an arm’s length basis.

Under the Terna Group’s current organisational structure, the subsidiary, Terna Rete Italia S.p.A., which has entered into an agreement with the Company covering the lease of certain operations and a number of related intercompany agreements. In accordance with these arrangements, the subsidiary is responsible for the traditional activities involved in operation and routine and extraordinary maintenance of the owned portion of the NTG, and for management and implementation of the grid development initiatives included in the related concession arrangement for transmission and dispatching operations, as set out in Terna’s Development Plan.

Terna is responsible for managing the operations of all its subsidiaries under specific service agreements which, in addition to covering administrative and financial coordination and the coordination of relations with government bodies and other institutions, give the Company the right to act on behalf of its subsidiaries, or in their name and on their behalf.

The Company’s Non-regulated Activities are conducted in Italy and overseas through the subsidiaries, Terna Energy Solutions S.r.l. and Terna Plus S.r.l. under existing intercompany service agreements.

From a financial viewpoint, Terna is responsible for subsidiaries’ cash management in accordance with specific treasury management arrangements. These cover the conduct and coordination of all the transactions carried out from time to time, in order to manage financial resources and meet subsidiaries’ cash and treasury requirements, and the execution of any other related transaction.

The following table shows the contractual terms and conditions governing financial relations with subsidiaries.

	DEPOSITS*	WITHDRAWALS
Terna Rete Italia S.p.A.	monthly average 1-month Euribor+0.30%	monthly average 1-month Euribor+0.80%
Rete S.r.l.	monthly average 1-month Euribor+0.30%	monthly average 1-month Euribor+0.80%
Terna Energy Solutions S.r.l.	monthly average 1-month Euribor+0.30%	monthly average 1-month Euribor+0.80%
Terna Plus S.r.l.	monthly average 1-month Euribor+0.30%	monthly average 1-month Euribor+0.80%
Avenia the Energy Innovator S.r.l.	monthly average 1-month Euribor+0.30%	monthly average 1-month Euribor+0.80%

\* If the sum of the average “1-month Euribor” plus the spread of 0.30% is negative, the interest rate applied will be 0.01%.

Existing intercompany agreements at 31 December 2022 are summarised below.

COUNTERPARTY	TYPE	ANNUAL FEE
	<b>Service agreement:</b>	
	<i>Operation &amp; Maintenance</i>	€296,766,176
	<i>Upgrade and development</i>	equal to costs incurred + allowed margin on personal expenses incurred
	<i>Administrative, support and consultancy services</i>	
<b>Terna Rete Italia S.p.A.</b>	- from Terna S.p.A. to Terna Rete Italia S.p.A. (revenue-generating)	€19,819,654
	- from Terna Rete Italia S.p.A. to Terna S.p.A. (cost-generating)	€4,039,062
	<b>Rental of workstations for staff</b>	
	- from Terna S.p.A. to Terna Rete Italia S.p.A. (revenue-generating)	€559,163
	- from Terna Rete Italia S.p.A. to Terna S.p.A. (cost-generating)	€183,913
	<b>Lease of operations</b>	€22,190,000
	<b>Service agreement:</b>	
<b>Rete S.r.l.</b>	<i>Upgrade and development</i>	equal to costs incurred + 5.82% of personnel expenses incurred
	<b>Admin. Support and consultancy service agreement (revenue-generating)</b>	€1,340,001
	<b>Service agreement:</b>	
<b>Terna Plus S.r.l.</b>	<i>Management fee (revenue-generating)</i>	€164,293
	<b>Rental of workstations for staff (revenue-generating)</b>	€38,443
	<b>Service agreement:</b>	
<b>Terna Energy Solutions S.r.l.</b>	<i>Terna's Non-regulated Activities (cost-generating)</i>	€10,340,764
	<i>Management fee (revenue-generating)</i>	€979,612
	<b>Rental of workstations for staff (revenue-generating)</b>	€171,244
	<b>Service agreement</b>	
	<i>Administrative service (revenue-generating)</i>	€274,653
<b>Tamini Group</b>	<i>Technical services</i>	equal to costs incurred + 5.82% of personnel expenses incurred
	<b>Services provided by staff on secondment and on assignment (revenue-generating)</b>	€278,522
	<b>Administrative Service agreement (revenue-generating)</b>	€96,666
<b>Brugg Kabel AG</b>	<b>Services provided by staff on secondment and on assignment (revenue-generating)</b>	€770,824
	<b>Administrative Service agreement (revenue-generating)</b>	€550,454
<b>Terna Interconnector S.r.l.</b>	<i>Management and coordination of civil works for Italy-France Interconnector (cost-generating)</i>	equal to costs incurred + 5.82% of personnel expenses incurred
	<b>Administrative Service agreement (revenue-generating)</b>	€127,390
<b>Esperia CC S.r.l.</b>	<b>Services provided by staff on secondment and on assignment (revenue-generating)</b>	€88,888
	<b>Service agreement:</b>	
<b>Terna Crna Gora d.o.o.</b>	<i>Technical services</i>	equal to costs incurred + 5.82%
	<i>Administrative services</i>	€49,872
	<b>Administrative service agreement (revenue-generating)</b>	€32,189
<b>Avvenia The Energy Innovator S.r.l.</b>	<b>Services provided by staff on secondment and on assignment (revenue-generating)</b>	€54,526

Terna S.p.A. is the consolidating entity in a tax consolidation arrangement for the purposes of corporation tax (IRES), in which the following subsidiaries participate: Terna Rete Italia S.p.A., Rete S.r.l., Terna Plus S.r.l., Terna Energy Solutions S.r.l., Tamini Trasformatori S.r.l. and Avvenia The Energy Innovator S.r.l..

The nature of sales and purchases from related parties<sup>13</sup> by the Company is shown below, followed by details of the revenue and costs resulting from such transactions during the year, and the related receivables and payables outstanding at 31 December 2022.

RELATED PARTY	REVENUE-GENERATING TRANSACTIONS	COST-GENERATING TRANSACTIONS
<b>Parent</b>		
Cassa Depositi e Prestiti S.p.A.		Credit facilities
<b>Related parties: subsidiaries operating in Regulated Activities</b>		
Terna Rete Italia S.p.A.	Rental for leased operations, administrative services, rental of workstations and other services.	Maintenance and other technical services, grid upgrade and development, quality of service allowance, administrative services, rental of workstations for staff
Rete S.r.l.	Provision of technical and administrative services.	Transmission charge
Terna Crna Gora d.o.o.	Administrative services, services provided by seconded personnel and staff on temporary transfers.	Transmission charge
Esperia CC S.r.l.	Administrative services, services provided by seconded personnel, rental of workstations.	
<b>Related parties: subsidiaries operating in Non-regulated Activities</b>		
Terna Energy Solutions S.r.l.	Technical, administrative and financial services, rental of spaces and workstations.	Operation of Non-regulated Activities
Terna Plus S.r.l.	Technical, administrative and financial services, rental of spaces and workstations.	Operation of Non-regulated Activities
Tamini Group	Administrative services, services provided by seconded personnel, other services.	
Terna Perù S.A.C.	Financial services.	
Brugg Kabel AG	Administrative and other services.	
Terna Interconnector S.r.l.	Administrative and consultancy services, loan agreements.	Management and coordination of performance of civil works for Italy-France interconnector
SPE Transmissora de energia Linha Verde I S.A. (Brazil)	Financial services.	
SPE Transmissora de energia Linha Verde II S.A. (Brazil)	Financial services.	
Avenia The Energy Innovator S.r.l.	Administrative and other services.	
<b>Associates</b>		
Cesi S.p.A.	Rental income on laboratories and other similar facilities for specific uses, dividends.	Technical studies and consultancy, research, design and experimentation
CGES	Dividends.	
CORESIO S.A.		Technical coordination service for the TSO

<sup>13</sup> The nature of the items related to centralised treasury management and the tax consolidation arrangement already described above are excluded from the table.

RELATED PARTY	REVENUE-GENERATING TRANSACTIONS	COST-GENERATING TRANSACTIONS
<b>Other related parties</b>		
GSE Group	Metering charge, dispatching charge	Rental of spaces and workstations
Enel Group	Transmission charge and aggregation of meter readings, dispatching charge, leases and rentals, power line maintenance, movement / re-routing of power lines, housing of fibre cable and maintenance of communications carried over proprietary power lines	Recovery of energy discount, building services, MV power to new substations, specialist services for connection to Terna's control and protection systems
Ferrovie Group	Dispatching charge, movement of power lines	Right-of-way fees
Open Fiber S.p.A.	IRU agreements for fibre	Provision of services for the rental of fibre
ENI Group	Dispatching charge	Contributions for NTG connections, sundry services
ANAS S.p.A.	Movement /re-routing of power lines	Right-of-way fees
Other related parties of the MEF		Sundry services
Fondenel and Fopen		Pension contributions payable by the Terna Group

## Revenue and costs

(€m)

	REVENUE COMPONENTS			COST COMPONENTS
	TRANSMISSION CHARGE AND OTHER REVENUE FROM REGULATED ACTIVITIES	NON-ENERGY-RELATED ITEMS	DIVIDENDS	NON-ENERGY-RELATED ITEMS
<b>Subsidiaries:</b>				
Terna Rete Italia S.p.A.	-	48.8	-	379.8
SPE Transmissora de energia Linha Verde I S.A. (Brazil)	-	0.1	-	-
SPE Transmissora de energia Linha Verde II S.A. (Brazil)	-	0.3	-	-
Terna Perù S.A.C.	-	0.1	-	-
Terna Crna Gora d.o.o.	-	0.1	3.9	-
Terna Plus S.r.l.	-	0.9	-	7.0
Gruppo Tamini	-	0.4	-	-
Terna Energy Solutions S.r.l.	-	2.9	-	10.3
Rete S.r.l.	-	2.6	-	-
Terna Interconnector S.r.l.	-	0.7	6.5	-
Esperia CC S.r.l.	-	0.2	-	-
Avvenia The Energy Innovator S.r.l.	-	0.1	-	-
Brugg Kabel AG	-	1.3	-	-
<b>Total subsidiaries</b>	<b>-</b>	<b>58.5</b>	<b>10.4</b>	<b>397.1</b>
<b>De facto parent:</b>				
Cassa Depositi e Prestiti S.p.A.	-	-	-	1.0
<b>Total de facto parent</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1.0</b>
<b>Associates:</b>				
Cesi S.p.A.	-	0.1	-	0.6
CGES	-	-	1.5	-
CORESIO S.A.	-	-	-	4.2
<b>Total associates</b>	<b>-</b>	<b>0.1</b>	<b>1.5</b>	<b>4.8</b>
<b>Other related parties:</b>				
Gruppo GSE	11.5	-	-	-
Open Fiber S.p.A.	-	1.4	-	-
Gruppo Enel	1,679.6	1.0	-	0.1
Gruppo Eni	7.6	0.1	-	0.2
Gruppo Ferrovie	2.5	1.0	-	-
ANAS S.p.A.	-	-	-	0.5
Other related parties of MEF	-	0.1	-	0.8
<b>Total other related parties</b>	<b>1,701.2</b>	<b>3.6</b>	<b>-</b>	<b>1.6</b>
<b>Pension funds:</b>				
Fondenel	-	-	-	0.6
Fopen	-	-	-	0.6
<b>Total pension funds</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1.2</b>
<b>TOTAL</b>	<b>1,701.2</b>	<b>62.2</b>	<b>11.9</b>	<b>405.7</b>

## Assets and liabilities

(€m)

	PROPERTY, PLANT AND EQUIPMENT	RECEIVABLES AND OTHER ASSETS	PAYABLES AND OTHER LIABILITIES		
	CAPITALISED COSTS	OTHER	OTHER	BALANCE ON INTER- COMPANY TREASURY ACCOUNT AND CASH	GUARANTEES*
<b>Subsidiaries:</b>					
Terna Rete Italia S.p.A.*	91.9	26.3	711.4	(34.5)	-
Terna Gora	-	-	2.4	-	-
Terna Plus S.r.l.*	-	(0.9)	-	(7.6)	-
Tamini Group*	24.1	0.9	-	-	-
Terna Energy Solutions S.r.l.*	-	1.7	2.2	142.6	-
Rete S.r.l.*	-	17.0	21.4	66.9	-
Terna Interconnector S.r.l.	0.7	0.2	0.6	-	-
Avvenia The Energy Innovator S.r.l.*	-	(0.1)	0.1	5.5	-
<b>Total subsidiaries</b>	<b>116.7</b>	<b>45.1</b>	<b>738.1</b>	<b>172.9</b>	<b>-</b>
<b>De facto parent:</b>					
Cassa Depositi e Prestiti S.p.A.	-	-	0.9	-	-
<b>Total de facto parent</b>	<b>-</b>	<b>-</b>	<b>0.9</b>	<b>-</b>	<b>-</b>
<b>Associates:</b>					
Cesi S.p.A.	3.4	0.1	2.6	-	0.4
CORESIO S.A.	-	-	-	-	-
<b>Total associates</b>	<b>3.4</b>	<b>0.1</b>	<b>2.6</b>	<b>-</b>	<b>0.4</b>
<b>Other related parties:</b>					
GSE Group	0.1	1.5	0.1	-	-
Open Fiber S.p.A.	-	0.5	-	-	-
Enel Group	0.2	314.2	15.0	-	754.7
Eni Group	-	1.3	1.0	-	111.7
Ferrovie Group	-	2.3	1.5	-	24.3
ANAS S.p.A.	0.3	2.5	3.8	-	-
Other related parties of the MEF	0.6	1.6	3.0	0.1	0.8
<b>Total other related parties</b>	<b>1.2</b>	<b>323.9</b>	<b>24.4</b>	<b>0.1</b>	<b>891.5</b>
<b>Pension funds:</b>					
Fopen	-	-	0.5	-	-
<b>Total pension funds</b>	<b>-</b>	<b>-</b>	<b>0.5</b>	<b>-</b>	<b>-</b>
<b>TOTAL</b>	<b>121.3</b>	<b>369.1</b>	<b>766.5</b>	<b>173.0</b>	<b>891.9</b>

\* The balances for the item, "Other", include receivables and payables relating to the tax consolidation arrangement for IRES.

\*\* Guarantees regard surety bonds received from contractors, with the exception of the amount relating to Cassa Depositi e Prestiti S.p.A. regarding a Revolving Credit Facility.



The impact of related-party transactions or positions on the statement of financial position and the income statement is summarised below:

### Statement of financial position

(€m)

	31 DECEMBER 2022			31 DECEMBER 2021		
	TOTAL	RELATED PARTIES	% SHARE	TOTAL	RELATED PARTIES	% SHARE
Property, plant and equipment	14,253	121.3	0.9%	13,447	160.9	1.2%
Non-current financial assets	1,415.1	-	-	1,415.1	-	-
Other non-current assets	7.9	2.8	35.4%	6.4	1.4	21.9%
Trade receivables	2,179.4	343.2	15.7%	2,633.3	309.2	11.7%
Cash and cash equivalents	2,202.6	173.0	7.9%	1,619.8	137.7	8.5%
Tax assets*	3.2	23.1	721.9%	3.5	26.4	754.3%
Other current assets	53.6	-	-	21.0	-	-
Other non-current liabilities	397.1	25.3	6.4%	346.6	27.3	7.9%
Trade payables	3,515.9	722.4	20.5%	3,090.9	627.8	20.3%
Tax liabilities*	50.8	-	-	33.9	-	-
Other current liabilities	533.2	18.8	3.5%	389.6	12.6	3.2%

\* The balances for the items include receivables and payables relating to the tax consolidation arrangement for IRES.

### Income statement

(€m)

	31 DECEMBER 2022			31 DECEMBER 2021		
	TOTAL	RELATED PARTIES	% SHARE	TOTAL	RELATED PARTIES	% SHARE
Revenue from sales and services	2,459.7	1,701.2	69.2%	2,146.8	1,757.4	81.9%
Other revenue and income	60.8	33.1	54.4%	77.3	31.3	40.5%
Raw and consumable materials used	6.4	-	-	6.0	-	-
Services	483.0	396.6	82.1%	411.9	350.6	85.1%
Personnel expenses	102.3	1.2	1.2%	76.4	1.1	1.4%
Other operating costs	21.9	0.1	0.5%	23.0	0.1	0.4%
Financial income	38.6	14.2	36.8%	(78.4)	0.4	(0.5%)
Financial expenses	(125.7)	7.9	(6.3%)	-	-	-

The impact of related party cash flows is shown below:

### Statement of cash flows

(€m)

	2022			2021		
	TOTAL	RELATED PARTIES	% SHARE	TOTAL	RELATED PARTIES	% SHARE
Cash flow from operating activities	2,351.7	31.4	1.3%	926.5	(211.2)	(22.8%)
Cash flow from investing activities	(1,872.4)	39.6	(2.1%)	(729.0)	(44.3)	6.1%
Cash flow from financing activities	103.5	-	-	(1,029.6)	-	-

## H. Significant non-recurring, atypical or unusual events and transactions

No significant non-recurring, atypical or unusual events or transactions, involving either third or related parties, took place in 2022.

## I. Notes to the statement of cash flows

Cash flow from **continuing operations** amounts to €2,351.7 million, with approximately €1,925.0 million in operating cash flow and an inflow of approximately €426.7 million generated by changes in net working capital.

The cash outflow for **investing activities** totals €1,927.2 million and regards €1,358.1 million relating to investment in property, plant and equipment (excluding right-of-use assets recognised in application of IFRS 16), €210.7 million invested in intangible assets and €350.5 million reflecting the change in investments in securities, after €27.4 million in proceeds from the aforementioned sale of the Uruguayan subsidiary and capitalised financial expenses of €24.8 million. The change in **equity** amounts to an increase of €386.6 million, due primarily to recognition of the reserve for the hybrid green bond, totalling €989.0 million. This was partly offset by payment of the final dividend for 2021 and the interim dividend for 2022 to the Company's shareholders (€592.4 million). More details are provided in note "21. Equity".

As a result, net cash used in investing activities and to provide a return on equity during the year led to a total outflow of €1,485.8 million, covered entirely by cash flow from continuing operations of €2,351.7 million. The repayment of bonds early in the year (replaced by the €1 billion hybrid green bonds issued on 2 February 2022, accounted for in equity), has resulted in a reduction in net debt.

The following table shows the reconciliation of net changes deriving from financing activities in the statement of cash flows:

(€m)

	31 DECEMBER 2021	CASH FLOW FROM FINANCING ACTIVITIES	CHANGE IN FV AND OTHER	31 DECEMBER 2022
- Long-term borrowings (including current portion)	10,448.8	264.3	(445.5)	10,267.6
- Short-term borrowings	1,917.6	(547.4)	(950.7)	419.5
<b>Net change deriving from financing activities</b>	<b>12,366.4</b>	<b>(283.1)</b>	<b>(1,396.2)</b>	<b>10,687.1</b>

## L. Government grants

Article 1, paragraphs 125 to 129, of Law 124 of 4 August 2017 (the annual markets and competition law) has introduced a number of measures designed to ensure the transparency of the government grants system. These measures, later amended by Law Decree 34 of 30 April 2019, include an obligation for companies to disclose amounts and information regarding assistance, subsidies, benefits, grants or aid, whether in cash or in kind, in the notes to the annual financial statements and, where applicable, in consolidated financial statements, where such amounts are not of a general nature and do not have the form of a fee, remuneration or compensation and have been received from a public body (paragraph 125-bis). The legislation also requires the disclosure of any grants disbursed (paragraph 126).

In accordance with Assonime circulars, Circular 5 of 22 February 2019 on "Transparency in the government grants system: an assessment of the regulations and interpretation guidance" and Circular 32 of 23 December 2019 on "Enterprise and competition", Terna S.p.A. uses the following criteria and basis of reporting for government grants:

- the regulations only apply to entities resident in Italy;
- grants have the nature of grants or donations, and represent incentives or subsidies designed to give beneficiaries a recognised economic advantage; the grants therefore take the form of donations or giving and public aid for specific purposes, and are not awarded under a general aid regime;
- the public resources used are exclusively "national";
- grants are reported on a cash basis and if the amount is not less than €10,000 (with reference to each individual beneficiary) in the reporting period.

In line with the above, the following table shows government grants collected/disbursed by Terna S.p.A. in 2022:

### Grants received (paragraph 125-bis)

BENEFICIARY ENTITY	NAME	VAT NUMBER	TYPE OF TRANSACTION	GRANTOR	
				AMOUNT (€)	NOTE
TERNA SPA	Ministry for Economic Development	80230390587	State aid*	15,574,648.46	Grants collected on the basis of a report on the state of work in progress on projects carried out by Terna S.p.A. financed by government grants, with funding provided under the National Operational Programme (NOP) for Enterprises and Competitiveness 2014 - 2020 FESR - ASSE IV – Investment priority 4d - Action 4.3.1
<b>TOTAL</b>				<b>15,574,648.46</b>	

\* These grants are covered by the obligation to publish them in the national state aid register.

**Grants disbursed (paragraph 126)**

GRANTOR	BENEFICIARY			TYPE OF TRANSACTION	AMOUNT (€)	NOTE
	NAME	TAX CODE	VAT NUMBER			
TERNA SPA	Chiaramonte Gulfi	00068940881		GIVING	10,000	Cultural and theatrical activities 2021-2022 season
TERNA SPA	Coldiretti	97467440588	10569111007	GIVING	25,000	Amica Campaign
TERNA SPA	Maggio Fiorentino	00427750484	00427750484	GIVING	20,000	Symphonic Season
TERNA SPA	Madonna di Pompei Parish	97521820015	97521820015	GIVING	10,000	Pompei Hackathon Project
TERNA SPA	Save The Children	97227450158	07354071008	GIVING	30,000	Ukraine Emergency
TERNA SPA	Caritas Italiana	80102590587	80102590587	GIVING	30,000	Ukraine Emergency
TERNA SPA	Confindustria Energia	97441040587		GIVING	20,000	Study on energy infrastructure
TERNA SPA	Komen	06073831007	06073831007	GIVING	60,000	Prevention day across the whole of Italy
TERNA SPA	Europacolonia Italia Onlus	97988510588		GIVING	40,000	Vinci Campaign 2022
TERNA SPA	Chigiana Music Academy Foundation	00068580521		GIVING	10,000	Summer Academy 2022
TERNA SPA	Save The Children	97227450158	07354071008	GIVING	24,417	Ukraine Emergency Donations
TERNA SPA	Caritas Italiana	80102590587	80102590587	GIVING	24,417	Ukraine Emergency Donations
TERNA SPA	Venezia World Sustainability Capital Foundation	94102820274		GIVING	34,000	Joining the foundation as co-founding member
TERNA SPA	Vespasiano Foundation	90053860574	01042190577	GIVING	10,000	Reate Festival
TERNA SPA	Sant' Erasmo Nautilus Association	05571220820		GIVING	40,000	Il Mare Di Tutti
TERNA SPA	Confindustria	80017770589		GIVING	19,215	Study on the proposal of reform for the Italian electricity market
TERNA SPA	Intercultura Onlus	91016300526		GIVING	45,000	Funding for 5 scholarships as part of the EmpowHer project
TERNA SPA	Santa Cecilia National Academy	05662271005	05662271005	GIVING	160,000	Second tranche
TERNA SPA	ASD Grifone		13928301004	GIVING	15,000	Sporting association support
TERNA SPA	Marcigliana Protection and sustainability project	97727100584	97727100584	GIVING	36,000	FUKYO O.d.V. Association donation
TERNA SPA	XXXVI international peace meeting	80191770587	02132561008	GIVING	30,000	Sant'Egidio community donation
<b>Total</b>					<b>693,049</b>	

## M. Proposal for appropriation of profit for the year

Terna S.p.A.'s Board of Directors proposes to pay a total dividend of €631,941,484.80 for 2022, equal to €0.3144 per share, of which €0.1061 per share was declared in the form of an interim dividend on 9 November 2022.

The Board of Directors thus proposes to appropriate Terna S.p.A.'s profit for 2022, amounting to €834,138,704.35, as follows:

- €213,260,151.2 to cover payment of the interim dividend payable from 23 November 2022 to the holders of each of the ordinary shares outstanding after adjusting for the treasury shares held at the record date of 22 November 2022 (with the relevant amount of €464,283.94 taken to retained earnings);
- €418,681,333.6 maximum to pay a final dividend of €0.2083 to the holders of each of the 2,009,992,000 ordinary shares representing the share capital at the date of this Board of Directors' meeting. The final dividend will be payable on 21 June 2023, with an ex-dividend date for coupon 38 of 19 June 2023 (a record date, as defined by art. 83-terdecies of Legislative Decree 58 of 24 February 1998, the Consolidated Law on Finance, of 20 June 2023). The treasury shares held as of the above record date will not participate in the distribution. The final dividend for 2022 attributable to the treasury shares held by the Company at the record date will be taken to retained earnings;
- €202,197,219.55 to be taken to retained earnings.

## N. Events after 31 December 2022

### Green light for two new underground cables in Salerno

On **4 January 2023**, the Italian Ministry for the Environment and Energy Security gave its **consent** for Terna's project for the **construction of two new 220kV underground power cables that will connect the "Salerno Port" primary cabin to the "Salerno North" primary cabin**. For the project, which has also received the green light from Campania Region Authority, the Italian electricity grid operator has plans to invest around €24 million. Terna will build two completely underground cables stretching over 5 km each. The routes for the new power lines will initially run alongside existing roads. They will then diverge before reuniting up to the entrance of the Porta Ovest tunnel, forming part of the Salerno Port Authority's plan, which the cables will follow up to the Salerno Port primary cabin. The Company will use underground cables with XLPE insulation, a highly efficient and sustainable technology. The project is essential in upgrading energy infrastructure to keep pace with the development of the city of Salerno, whilst also promoting decarbonisation of the port area.

### Terna acquires asset in Alto Adige region for approximately €14 million

On **5 January 2023**, Terna **agreed to acquire a 100% stake in Edyna Transmission Srl**, an Alperia Group company operating in the transmission sector. The acquired company, which owns 34 km of high-voltage power lines and 2 electricity substations in Alto Adige, already part of Italy's electricity grid, was acquired for a total consideration of approximately €14 million. The agreement is subject to the fulfilment of certain conditions precedent. The transaction is part of the Terna Group's strategy to unify Italy's national electricity transmission infrastructure, consolidating parts of the high-voltage grid owned by local utilities, with the goal of further improving grid efficiency and reliability.

## Green light for new Livigno-Premadio underground connection in the province of Sondrio

On **5 January 2023**, the Italian Ministry for the Environment and Energy Security gave its **consent** for the **Livigno–Premadio electricity connection** that Terna plans to install in the province of Sondrio. Terna will invest €65 million in the project, which is one of the key projects planned by Terna in order to boost the reliability of energy supplies in the locations due to host the Milan–Cortina Olympic and Paralympic Games in 2026. The new infrastructure foresees the construction of a power line, formed of two underground cables, between the primary cabin in Livigno owned by the local distributor and the Terna substation located in Premadio, in the municipality of Valdidentro. The lines will almost entirely follow the same route, around a total of 20 km in length, partly following state highway 301 at over 1,500 metres above sea level. The plan will ensure greater meshing of the electricity grid in the area, also increasing the resilience of the energy transmission system in areas that have been heavily affected by extreme weather events in recent years. Preparations for work to begin, planned for 2023, will soon be made with the aim of completing and commissioning the connection by the second half of 2025, just in time for the start of the event.

## €105 million investment in new undersea electricity connection between Sicily and Calabria

On **10 January 2023**, the Italian Ministry for the Environment and Energy Security **launched the consents process for the ‘Bolano-Annunziata’**, Terna’s new electricity infrastructure that will connect Sicily with Calabria. To complete the project, which is strategic for the entire Italian electricity system, the Company will invest €105 million. The 380 kV AC infrastructure, part of Terna’s ten-year Development Plan for the Italian transmission electricity grid, will make it possible to increase the total electricity exchange capacity between the island and the mainland up to 2000 MW, favouring the development of renewable sources planned in Southern Italy. It will also help improve the grid’s meshing and operational flexibility, making the electricity systems of Southern Italy and Sicily even more secure. The project will have several phases. The main phase will consist of laying around 7.5 km of undersea power cables to connect the Bolano (province of Reggio Calabria) and Annunziata (province of Messina) electricity substations. This power line will also have a fibre connection for data transmission. Additionally, Terna will create two underground power lines. The first, about 3 km long, will start at the Sicilian landing site and end at the Annunziata substation. The second, about 500 meters long, will make its way from the Calabrian landing site to the Bolano substation. Terna will adapt the latter by creating a new 380 kV section installed inside a newly constructed building. The entire adaptation will take place in areas near the current plant and will involve the municipalities of Reggio Calabria and Villa San Giovanni.

## Green light for rationalisation of the electricity grid between Dolo (VE) and Camin (PD)

On **11 January 2023**, the Italian Ministry for the Environment and Energy Security gave its **consent** for **Terna’s plan to rationalise the electricity grid between Dolo (Venice) and Camin (Padua)**, designed to improve reliability, quality of service and the efficiency of the area’s power grid. Terna plans to invest €130 million in construction of a new 380 kV underground cable power line approximately 16.5 km long and the demolition of 32 km of existing overhead power lines. The new connection will make it possible to dismantle 123 pylons and free up approximately 95 hectares of land from electricity infrastructure. The municipalities involved in the project are Dolo, Camponogara, Stra, Fossò and Vigonovo in the Venice province and the municipalities of Padua and Saonara (the latter only involved in removal operations) in the Padua province. The new underground cable connection will facilitate the safe management of energy exchanges between the areas of Venice and Padua and will increase the resilience of the North-Eastern grid, which is increasingly exposed to the effects of extreme weather events, in particular intense snowfall and gusts of wind. At the same time, the work will make it possible to reduce grid losses, resulting in improved efficiency of the energy transmission service. The project, which is part of a wider rationalisation of the high-voltage grid in the Venice and Padua areas, is one of the regional electricity grid development works provided for in the Memorandum of Understanding signed by Terna and the Veneto Region in 2019 and the result of many meetings and inspections with the Region and the municipalities involved, aimed at identifying shared solutions and defining the route.

## Consents obtained for new projects amounting to investment of over €2.5 billion in 2022

On **12 January 2023**, Terna achieved a **new all-time record: 2022 saw the Italian Ministry for the Environment and Energy Security and regional councils grant consent for 29 projects, representing total investment of over €2.5 billion in development of the national transmission grid**. After exceeding the €1 billion in approved investments in 2021 for the first time in history, in 2022, the Company achieved a new record, more than doubling the figure for the previous year and increasing the 2020 number tenfold (€266 million). Getting the green light for the eastern section of the Tyrrhenian Link was the biggest factor in achieving this result. This stretch of undersea power line, worth more than €1.9 billion, will connect Campania and Sicily. With 7 approved projects out of 29 decrees issued (24 from the Italian Ministry of the Environment and Energy Security and 5 from regional councils), the Lombardy Region has the highest number of new projects, totalling about €130 million. Next is Campania, with 5 projects, and then Sicily and the Self-governing Province of Bolzano, with 4. Additionally, 8 new electricity substations were approved, including 2 converter substations for the Tyrrhenian Link. After the record-breaking undersea cable, which will be fully operational in 2028, the most financially significant project approved in 2022 was the Dolo-Camin power line, which will run between the provinces of Venice and Padua. The power line (16.5 km of 380kV underground cable) will make it possible to demolish nearly 32 km of overhead power lines running through 7 municipalities. These are followed by, in order of investment value, the projects planned the southern quadrant of the Metropolitan City of Rome at a cost of over €70 million, 3 new underground cable lines, amounting to over 30 km, and a new electricity substation, and the €65 million Livigno-Premadio connection, essential for improving the reliability of the power supply and the resilience of the Lombardy grid in anticipation of the Milan-Cortina Olympic and Paralympic Games in 2026.

## Green light for new cable connection between Rome East and Enea Frascati

On **20 January 2023**, the Italian Ministry for the Environment and Energy Security gave its **consent for the new connection between Terna Rome East and ENEA Frascati**, in which the Company is to invest more than €70 million. The project involves the construction of a series of works in the eastern quadrant of the Metropolitan City of Rome aimed at fulfilling the connection request submitted by ENEA. ENEA, the Italian National Agency for New Technologies, Energy and Sustainable Economic Development, submitted a connection modification request to the national transmission grid to supply a consumption plant at the Research Centre in Frascati (RM) used to power the Divertor Tokamak Test facility, an experimental machine aimed at the production of renewable, safe and unlimited energy. Specifically, the authorised works will enable the construction of three new 150 kV underground power lines extending for a total of 40 km. For the three power lines, Terna will use cables with XLPE insulation, a highly reliable, efficient and sustainable technology. The planned power lines will almost entirely follow the route of the existing infrastructure. To guarantee the capacity and continuity of supply required by ENEA, Terna will also build a new 150kV switching substation in the municipality of Frascati, and will update the existing “Rome East” substation in the Municipality of Galliciano nel Lazio. Once the works are complete, the existing “ENEA Frascati RM - ENEA Frascati UT” 150kV overhead power line, which extends for around 300 metres, will be demolished.

## Launch of consents process for new cable power line for Messina

On **25 January 2023**, with publication of the parcels of land regarding the area that will potentially host the infrastructure, Terna announced the launch of the consents process for the new 150kV power line that will connect the Messina North and Messina Riviera primary substations. The project, in which the Company will invest approximately €20 million, involves construction of a completely underground cable connection extending for over 10 km. The route will follow existing road infrastructure for almost its entire length. Terna will use latest-generation cables with XLPE insulation, a particularly reliable and sustainable technology. The works will enable increased meshing of the 150 kV line between the substations of Sorgente and Villafranca, which features four primary cabins for a total load of approximately 60 MW at peak times, when there is a significant tourist population on the coast. Once authorisation is secured, Terna will begin the design, planning and construction of the power line, which will be operational approximately 24 months later.

## Terna, Reware and Legambiente Sicily: computer lab and language lab opened at the San Giovanni Apostolo Association's centre in a former public housing complex in Palermo

Thanks to the donation of 40 computers by Terna as part of the **Terna-Reuse: Circular computers in the community project**, run in collaboration with the Reware Cooperative and Legambiente Sicily, on **30 January 2023, two laboratories, a computer and a language lab, were opened at the San Giovanni Apostolo Association's centre in the former public housing complex in Palermo**. The ceremony was attended by local administrators, Maria Antonietta Sidoni, Terna's Sicily Transmission District Manager, along with representatives of the Reware cooperative, Giuseppe Alfieri and Vanessa Rosano of Legambiente Sicilia, Libera Association, the local branch of the Carabinieri and a number of schools and associations that will benefit from the donation. To be precise, the two labs are located respectively in a meeting centre managed by the San Giovanni Apostolo Association, which has worked to integrate various elements of the social fabric and to counter marginalisation through education for 20 years, and in the "Giuliana Saladino" State Comprehensive School.

## Over €100 million in investment in the Brianza power grid

On **31 January 2023**, the Italian Ministry for the Environment and Energy Security **launched the consents process for the rationalisation of the HV electricity grid serving the western part of Brianza**. Terna plans to invest over €100 million in this project. The restructuring work, which will involve the municipalities of Seveso, Barlassina, Cesano Maderno, Cogliate and Ceriano Laghetto in the province of Monza-Brianza (Lombardy), will enable an increase in efficiency of the electricity transmission service in the area and, with improved meshing of the local grid, will guarantee greater continuity and security of operation. The Company will create approximately 13 km of new power lines in underground cable, enabling the demolition of 7.3 km of overhead power lines located predominantly in densely populated areas in the municipalities of Seveso and Cesano Maderno. Plans for the new infrastructure will enable the removal of 18 pylons and will free up approximately 30 hectares of land. In addition, Terna will create two new substations in the municipalities of Barlassina and Cesano Maderno: these systems will be integrated into the landscape, protecting the local area and adopting environmental mitigation measures, including green engineering works.

## Terna's place in Bloomberg's Gender Equality Index (GEI) confirmed

On **31 January 2023**, Terna confirmed its ranking as one of the world's most inclusive companies. This is because the Company has been **included in Bloomberg's Gender Equality Index (GEI) for the fifth successive year**. The GEI is an international index of companies' performances regarding gender equality issues and the quality and transparency of their public reporting. Terna is one of only 484 global businesses operating in 45 countries and 11 different sectors, selected from over 11,700 companies, to be included in the final index. This year, Terna saw its GEI score for 2022, that Bloomberg uses to evaluate companies' Gender Equality policies, improve compared with 2021, with a result above the overall average for the companies included in the index and the average for the companies in the utilities sector. The better score is mainly due to the Italian national electricity grid operator's performance in the "Inclusive Culture", "Pro-women brand" and "Female leadership & talent pipeline" areas. Additionally, Terna yet again achieved a perfect score in "Disclosure", a decisive aspect for the total assessment, confirming the Company's commitment to transparency and quality of reporting, distinctive features of the ESG policies pursued by the Company and presented in its Integrated Report.

## Consents process begins for Adriatic Link, the new submarine cable between Abruzzo and Marche

On **1 February 2023**, the Italian Ministry for the Environment and Energy Security **launched the consents process for construction of the Adriatic Link**, the new direct current undersea power line that will connect Abruzzo and Marche, in which Terna will invest over €1 billion, involving approximately 120 firms in the project, including contractors and the downstream supply chain. will enable an increase in exchange capacity of approximately 1000 MW between the Centre-South and Centre-North zones of the country, boosting the security, efficiency and resilience of the entire national



transmission grid. The Adriatic Link, a project included in Terna's 2018 Development Plan, is highly advanced in both technological and environmental terms. The "invisible" power line, running for a total of approximately 250 km, will be made up of two submarine cables with a length of approximately 210 km and two underground cables of approximately 40 km. The two electrical converter stations will be created near the existing substations of Cepagatti (province of Pescara), for Abruzzo, and Fano (province of Pesaro-Urbino) for the Marche region, and will have a minimal impact on the local environments.

## Consents process begins for a new cable power line in the province of Viterbo

On **6 February 2023**, following the Italian Ministry for the Environment and Energy Security's launch of the consents process for a new cable power line in the province of Viterbo, **Terna published the notice containing the parcels of land regarding the area that will potentially host the infrastructure**. The project, in which the Company will invest €23 million, involves creation of a 150kV underground cable running for 9 km, connecting the primary cabins of Viterbo and Pian di Tortora, both in the Municipality of Viterbo. The work will enable improved meshing of the local grid and an increase in efficiency and reliability of the electricity transmission service, guaranteeing greater continuity and security of operation. The connection, which will run primarily along existing roads, will be created using latest-generation cables with XLPE insulation. This is particularly reliable and sustainable technology that guarantees greater transport capacity for the integration of renewable generation plants in the areas. Once authorisation is received from MASE, the new connection will go live within 24 months.

## Terna completes acquisition of shares in SEIeNe CC S.A.

On **7 February 2023**, the acquisition of shares in SEIeNe CC S.A. was completed, with the aim of enabling **Transelettrica to sell its stake**. As a result, the company's shareholders (all of whom hold an equal number of shares: 66,666) are now: IPTO S.A. (the Greek TSO), ESO-EAD (the Bulgarian TSO) and Terna S.p.A.

## Terna is the world's leading electricity company in S&P's Sustainability Yearbook 2023

On **9 February 2023**, Terna was included among the 'Top 1%' companies in the **Sustainability Yearbook 2023**, the leading publication produced by S&P Global, the international rating agency that assesses the ESG performance of over 7,800 companies worldwide. Thanks to an excellent score of 91 (out of 100) awarded by S&P Global in its 'Corporate Sustainability Assessment 2022', Terna recorded the best score among the 250 electric utilities assessed who, on average, obtained a score of 50. For the eighth time in 14 years of inclusion in the Dow Jones Sustainability index, the Company has achieved the highest possible ranking in the Sustainability Yearbook.

## Green light for underground cable linking Moena with Campitello (Trento)

On **9 February 2023**, the Self-governing Province of Trento gave its **consent** for the **132kV connection between Moena and Campitello**, which will cross the municipalities of Moena, Soraga, San Giovanni, Mazzin and Campitello in Val di Fassa. The Company will invest €48 million in the project, one of the main initiatives planned by Terna to increase energy reliability at the Milan-Cortina Olympic and Paralympic Games in 2026. The project involves the construction of 19 km of new underground power lines that will connect the Primary Cabins of Moena and Campitello, owned by the local distributor, with the new Terna Electrical Substation in the Municipality of Moena. The latter will be built using compact gas-insulated technology architecturally in-keeping with the surrounding landscape to maintain the beauty that Val di Fassa is known for. The plan will ensure greater meshing of the local grid and will increase the resilience of the energy transmission system in areas that have been heavily affected by extreme weather events in recent years. All the design solutions are the result of a profitable process of dialogue undertaken by Terna, together with the Self-governing Province of Trento, with all the municipalities involved. All the preliminary activities to begin the works will be launched in early 2023 with the aim to complete and commission the connection by the second half of 2025.

## Agreement with Greenpeace Italia, Legambiente and WWF for increasingly sustainable electricity infrastructure

On **14 February 2023**, Terna signed a new Memorandum of Understanding with environmental associations for the development and construction of increasingly sustainable electricity infrastructure, integrated into the local areas and respectful of the environment and biodiversity. In Rome, the Chairwoman of Terna, Valentina Bosetti, the President of Greenpeace Italia, Ivan Novelli, the President of Legambiente, Stefano Ciafani, and the President of WWF Italia, Luciano di Tizio, renewed and further extended the existing collaboration established in recent years between them for the next 3 years. The collaboration between Terna, Greenpeace Italia, Legambiente and WWF Italia aims at an increasingly ambitious improvement of the environmental sustainability of the ten-year Development Plan for the Italian transmission grid and of Terna's industrial plan, with a view to the decarbonisation of the electricity system, also through concrete and constant dialogue and institutional discussion on subjects and measures of mutual interest. The agreements between the company led by the CEO Stefano Donnarumma and the environmental associations will make it possible to start a conversation on future energy scenarios and on the technological innovations of the electricity grids to support renewable energy sources, on the basis of the objectives set by European legislative packages and national directives contained in the PNIEC and in the NRRP. Furthermore, they will serve to focus attention on the integration, in local planning, of the other resources necessary for the energy transition, i.e. storage systems and sustainable energy sources, in particular offshore wind farms.

## Launch of the Driving Energy Award 2023 – Contemporary Photography

After the success of the first edition, on **15 February 2023**, Terna launch the **Driving Energy Award 2023 – Contemporary Photography**, the free competition open to all photographers in Italy, aimed at promoting the country's cultural development and nurturing new talent in the sector. This year's theme is "In praise of balance". From 15 February and until 30 June, photographers are invited to interpret one of the key concepts of our culture which, thanks to the wealth of meanings and connotations, can provide various points for artistic and creative reflection. Balance is also a fundamental cornerstone of Terna's mission which guarantees a balance between energy produced and energy consumed, round the clock and every day of the year, through its dispatching activity, enabling the electricity system to function better to enable the energy transition and transmission of all the energy the country needs.

## Memorandum of Understanding signed for re-routing of the Villavalle–Spoleto power line in the province of Perugia

On **16 February 2023**, the Mayor of Spoleto (PG), Andrea Sisti, signed a memorandum of understanding with Terna for the joint development of a new route for the 132kV Villavalle-Spoleto power line. Signature of the memorandum of understanding confirms the good result of the consultation carried out by the Municipality of Spoleto and Terna, which has always been keen to listen to the needs of local communities, to minimise the impact of the project authorised in 2019 by the Ministry of Economic Development with the Ministry of the Environment (today Ministry of the Environment and Energy Security). The project involves the delocalisation of a 6 km section of the current power line that crosses Spoleto, thanks to the construction of a new line, in part overhead and in part in underground cable, and of a switching station, near the Colacem plant, connected to the 132kV "Giuncano – Foligno" and "Cementir – Spoleto" power lines. The work, as well as making the local power supply more reliable, will bring important environmental benefits thanks to the demolition in the town centre of Spoleto of approximately 4 km of obsolete lines, for a total of 19 pylons, thus returning approximately 10 hectares of land to the community.

## Launch of new cable power line in Naples

On **20 February 2023**, following the Italian Ministry for the Environment and Energy Security's launch of the consents process for a new cable power line for Naples, **Terna published the notice containing the parcels of land regarding the area that will potentially host the infrastructure**. The project, in which the Company will invest around €12 million, involves the creation of a 220kV underground power line running for approximately 5 km, connecting the primary cabins of Doganella and Poggioreale, both in the Municipality of Naples. The project, which will increase the meshing of the electricity grid in the region and provide greater security for the transmission system, will improve power flow distribution in the eastern part of the city. The power line will travel through the fourth and sixth municipalities of Naples and will cross the industrial area in Poggioreale, mainly following the route of the existing infrastructure. The connection will be developed using latest-generation cables with XLPE insulation, a particularly reliable and sustainable technology. Once the consent has been granted, the power line is scheduled to enter service within the next 36 months.

## Laying of submarine cable between Elba and the Mainland begins

On **23 February 2023**, Terna **began laying submarine cable for the 132kV connection between the island of Elba and Piombino (LI)**. The 34 km of submarine cable, transported by the biggest cable-laying ship in the world, the Leonardo Da Vinci operated by the Prysmian Group, will be placed at a maximum depth of around 70 metres below sea level, starting from the island landing site at Portoferraio and continuing towards the continental coast of Piombino. The works will take approximately 10 days. The undersea cable of the new connection will be protected from possible damage caused by human activity for the entire length of the route thanks to the use of specially designed latest-generation machinery. In designing and implementing the project, Terna has been guided by the highest sustainability standards, taking steps to protect the marine habitat. The new power line between the Island of Elba and Tuscany, in which the Company has invested around €90 million, will represent strategic infrastructure that will double the number of connections between the national electricity system and the grid on the island of Elba. The new power line will contribute to improving the quality of the local infrastructure, guaranteeing important benefits in terms of safety, reliability and sustainability on the entire island, which tends to have high electricity consumption over the summer period.

## First online digital platform for requesting the connection of renewable energy plants to the grid goes live

In collaboration with the Ministry of the Environment and Energy Security, on **27 February 2023**, Terna inaugurated its digital platform that, for the first time, centralises all information on high-voltage connection requests from renewable plants in Italy. Designed by the Company and the only system of its kind in the world, **Econnexion will enable stakeholders and electricity sector operators to view information on the geographic location and authorisation status of new, onshore and offshore photovoltaic and wind initiatives across Italy**. The data available the dashboard (<https://www.terna.it/en/electric-system/grid/econnexion>), which are updated every three months, are divided by source and shown in terms of output, and can be viewed by users as a graph or as a table. Specifically, the "Connection Requests" section enables users to filter requests by source (solar, onshore wind, offshore wind) in an aggregated format (number, output and percentage distribution). Using the interactive map, it is possible to view details at a regional, provincial or municipal level, and, thanks to the search filters, to select all active requests in a certain municipality and their authorisation status, for example, and compare renewable energy plant initiatives in various provinces or regions based on the so-called "General Minimum Technical Solution" (GMTS) produced by Terna. The "Fit for 55 Target" section shows the most significant data on photovoltaic and wind power initiatives (onshore and offshore) broken down by market area, with reference to the target set by the "Fit for 55" package for 2030, which envisages a reduction in greenhouse gas emissions of at least 55% by 2030 compared with 1990 levels.

## Terna strengthens commitment to decarbonisation. The aim is to cut CO<sub>2</sub> emissions by 46% by 2030

On 2 March 2023, Terna announced that it was **strengthening its commitment to combatting climate change by setting new targets for cuts in greenhouse gas emissions from its direct and indirect activities**. The Company has adopted a new Science-Based Target (SBT) through which it undertakes to cut by 2030 its CO<sub>2</sub> emissions by 46%, compared with 2019, improving the previous target that called for a reduction in climate-altering emissions by approximately 30%. In line with its sustainability strategy and the Paris Agreement, Terna had adopted its first Science-Based Target in 2021 when it committed to a cut in emissions from its direct activities (“Scope 1”) and indirect activities (“Scope 2”) in line with the “well below 2°C” scenario, i.e. complying with the guidelines recommended by scientists to keep the global temperature increase well below the limit of 2 degrees centigrade. The new decarbonisation commitment adopted by the national transmission grid operator and approved by SBTi (Science-Based Targets initiative) provides for targets in line with the “1.5°C” scenario, the most ambitious temperature target established by the Paris Agreement, which recommends a limit on the increase in global warming below 1.5 degrees. The Science-Based Target signed by Terna also introduces a target to reduce “Scope 3” indirect emissions, such as those relating to employee mobility or the supply chain. The new target also extends the scope of application to the subsidiaries Brugg and Tamini.

## Terna: the first and only Italian company to receive compliance management system certification

On 6 March 2023, Terna became the only company in Italy to have achieved ISO 37301:2021 (International Standards Organization), certification granted by Accredia, Italy’s sole national accreditation body, extended to all relevant compliance obligations of the main Group companies (Terna Rete Italia, Terna Energy Solutions and Terna Plus). The certification, issued by IMQ, Istituto Italiano del Marchio di Qualità, following an assessment, recognises the national electricity grid operator’s ability to guarantee not only processes compliant with national and European regulations, but an important opportunity to grow the compliance culture within the Group. ISO 37301:2021 is a recent international standard which specifies requirements and provides guidelines to develop, maintain and improve compliance management systems. Adoption of this model also contributes to the achievement of three important sustainable development goals: decent work and economic growth, peace, justice and strong institutions and sustainable cities and communities.

## 8 March: Terna to provide eight STEM scholarships to refugee women

To mark International Women’s Rights Day, **Terna made eight STEM scholarships available for refugee women** on 7 March 2023. The initiative, carried out in collaboration with Sistech, a European non-profit association that promotes the access of refugee women to the digital & tech world of work, aims to promote inclusion and diversity through innovation, requalification and improvement of their skills. In particular, Terna has chosen to finance a number of quarterly scholarships whose courses focus on data science, web or software development, digital project management, cyber security and digital marketing. The project chosen by the national electricity grid operator is called Boost and also includes a series of services to help refugee women access the jobs market through language courses and psychosocial support, in addition to logistics. In continuity with previous years, the Group has identified a specific theme for 8 March: “Education and Training”, through which to draw attention to the importance of gender equality and overcoming gender stereotypes, as evidenced by the Data Girls and SheTech programmes, promoted by Terna regarding the training of women in STEM subjects.

## Terna meets the public in Vico Equense (NA) to discuss restructuring of the grid serving the Sorrentino peninsula

On 10 March 2023, a well-attended ‘Terna Incontra’ meeting with the public in Vico Equense (NA) came to a successful conclusion. The meetings was held to discuss work on the 150kV “Sorrento - Vico Equense - Agerola - Lettere” electricity connection within the local area. The Mayor of Vico Equense, Giuseppe Aiello, and local councillor Rossella Staiano spoke at the meeting held at the Oratorio San Raffaele. During the meeting, Terna technicians gave citizens all the information about the work that will involve the municipality, also noting comments about the project from local people. The project, in which Terna will invest around €40 million, is part of a larger restructuring plan for the Sorrento peninsula and will make it possible to improve the reliability of the electricity system and provide voltage in excess of 60kV, which is no longer adequate to ensure the security, resilience and quality of the electricity transmission service in the area.

Once complete, it will also make it possible to demolish around 60 km of old power lines and more than 160 pylons on the Sorrento peninsula, following their replacement with 23 km of new overhead power lines and 12 km of underground cable.

## New Suvereto (LI) office opens

On **10 March 2023**, the **Terna's new Suvereto (LI) office opened**. The event was attended by the Company's senior management and local dignitaries. The new eco sustainable building, completed in just 18 months, will host approximately 50 employees and will play a central role in preparations for the construction of Sa.Co.I 3, the submarine connection that will link Tuscany, Sardinia and Corsica, and its converter substation. The project, in which Terna has invested €10 million, is a concrete example of urban redevelopment through the recovery of an abandoned building of around 26,000m<sup>2</sup> and the relocation and construction of new high energy efficiency class A4 buildings, in place of the current outdated offices. The external shell consists of distinctive elements of sustainable building, such as ventilated walls covered in terracotta, thermo-regulated spaces and renewable energy systems. The environmental regeneration work carried out, including about 9,000m<sup>2</sup> of green area made up of native plants, contributes to the structure's perfect integration into the surrounding landscape. In addition to offices, the new headquarters will also house services, warehouses, workshops, storage for materials, waste collection and parking lots. The project represents an example of construction designed and built through the redevelopment of heritage assets in terms of environmental sustainability, in full compliance with the Group's energy development goals.

## Planting of approximately 130 new trees in Roma gets underway

On **13 March 2023**, Terna **began the planting of over 130 trees**, including oleander, pear and oak trees, in Viale Buoizzi in Rome and later in the Villa Borghese park and in via Gramsci. The new trees have replaced those felled last July during work on the underground cable that makes up the 150kV "Nomentana - Villa Borghese" line, as previously agreed with the local authority. Planting will be completed by the end of March. Work on construction of the underground cable between Via Nomentana and Villa Borghese are included in the Memorandum of Understanding for the modernisation of the Rome electricity grid signed, in March last year, by Terna, the Municipality of Rome and Lazio Regional Authority. The agreement provides for the construction of four completely underground cable connections, making a total of approximately 25 km from the "Laurentina" primary substation to the "Flaminia" primary substation. The total investment amounts to over €60 million.

## 2023 Development Plan for the national transmission grid presented

The **2023 Development Plan** for the national transmission grid was presented on **15 March 2023**: investment of over €21 billion in the next 10 years, 17% up on the previous Plan, with the aim of accelerating the energy transition, enable the country's decarbonisation, reduce Italy's dependence on overseas sources of energy and make the Italian electricity system more environmentally sustainable. Taking into account total investment in strategic infrastructure over the entire life of the assets, which goes beyond the ten-year period, the figure rises to more than €30 billion. The new Plan drawn up by the Company chaired by Valentina Bosetti and led by Stefano Donnarumma was presented during a press conference attended by Gilberto Pichetto Fratin, Minister of the Environment and Energy Security, and Stefano Besseghini, President of ARERA, the Italian Regulatory Authority for Energy, Networks and the Environment. The main new feature introduced by the 2023 Development Plan is the Hypergrid network, which will leverage the technologies of the HVDC (High Voltage Direct Current) transmission system to achieve the energy transition and security targets. In addition to the development projects that have already been announced, Terna has planned five new electricity backbones designed to integrate renewable energy capacity, backed by investment totalling €11 billion. The project involves a major modernisation of the existing power lines on the Tyrrhenian and Adriatic backbones on the mainland and towards the islands, and - a first for the Company - the construction of new 500kV undersea connections. With the Hypergrid it will be possible to double the exchange capacity between market areas from the current 16 GW to over 30 GW. Development of the direct current backbones will also minimise land use and the impact on the landscape. The projects planned by Terna will make a significant contribution to achieving the targets set at European level in the "Fit-for-55" package of measures, which aims to achieve a 55% reduction in CO<sub>2</sub> emissions by 2030 compared to 1990 levels. In Italy, renewable energy will need to cover at least 65% of final consumption in the electricity sector by 2030, compared to the 55% initially set out in the National Integrated Energy and Climate Plan (PNIEC), making a total of 70 GW of additional capacity.

# Disclosure

## pursuant to art. 149-*duodecies* of the CONSOB Regulations for Issuers

The following table, prepared pursuant to art. 149-*duodecies* of the CONSOB Regulations for Issuers, shows the fees paid for audit and other services provided by Terna S.p.A.'s independent auditors in 2022.

	ENTITY PROVIDING SERVICE	FEES DUE FOR THE YEAR
Audit of the accounts and financial statements	Deloitte & Touche S.p.A.	222,933
Attestation services and other services <sup>14</sup>	Deloitte & Touche S.p.A.	116,263
<b>Total</b>		<b>339,136</b>

(€)

<sup>14</sup> Attestation and other services include the services linked to the audit of the regulatory accounts, the opinion on the distribution of interim dividends, the limited review of the Non-financial Statement, the limited assurance for the Green Bond Report and Comfort Letters for bonds.



# Attestation

of the separate financial statements pursuant to art. 81-*ter*  
of CONSOB Regulation 11971 of 14 May 1999, as amended



## Attestation of the separate financial statements pursuant to 81-ter of CONSOB Regulation 11971 of 14 May 1999, as amended

“Terna SpA”

1. The undersigned, Stefano Antonio Donnarumma, as Chief Executive Officer, and Agostino Scornajenchi, as Manager responsible for Terna SpA's financial reporting, having also taken account of the provisions of art.154-*bis*, paragraphs 3 and 4 of Legislative Decree 58 of 24 February 1998, attest to:
  - the adequacy with regard to the nature of the Company, and
  - the effective application of the administrative and accounting procedures adopted in preparation of the separate financial statements during the year ended 31 December 2022.
2. The administrative and accounting procedures adopted in preparation of the separate financial statements for the year ended 31 December 2022 were drawn up, and their adequacy assessed, on the basis of the regulations and methods adopted by Terna SpA in accordance with the Internal Control-Integrated Framework model issued by the Committee of Sponsoring Organizations of the Treadway Commission. This Commission has established a body of general principles providing a standard for internal control and risk management systems that is generally accepted at international level.
3. We also attest that:
  - 3.1 the separate financial statements for the year ended 31 December 2022:
    - a. have been prepared in compliance with the International Financial Reporting Standards endorsed by the European Union through EC Regulation 1606/2002, issued by the European Parliament and by the Council on 19 July 2002 and the statutory requirements implementing the provisions of art. 9 of Legislative Decree 38/2005;
    - b. are consistent with the underlying accounting books and records;
    - c. provide a true and fair view of the financial position and results of operations of the issuer.
  - 3.2 the Directors' report on operations includes a reliable analysis of the operating and financial performance and situation of the issuer, as well as a description of the main risks and uncertainties to which it is exposed.

Rome, 22 March 2023

Chief Executive Officer  
**Stefano Antonio Donnarumma**

*(original signed)*

Manager responsible for financial reporting  
**Agostino Scornajenchi**

*(original signed)*



# Report of the Board of Statutory Auditors

to the Annual General Meeting of Terna S.p.A.'s shareholders

## BOARD OF STATUTORY AUDITORS' REPORT

### TO THE ANNUAL GENERAL MEETING OF TERNA S.P.A.'s SHAREHOLDERS

under the terms of art. 153 of Italian Legislative Decree 58/1998 and art. 2429 of the Italian Civil Code

Dear Shareholders,

this report, prepared under the terms of art. 153 of Legislative Decree 58/1998 (CLF) and art. 2429 of the Italian Civil Code, details the activities of the Board of Statutory Auditors of Terna S.p.A. ("Terna" or also the "Company") during the year ended 31 December 2022. The report has been prepared in compliance with the applicable legislation, taking into account the "Standards of Conduct for the Boards of Statutory Auditors of Listed Companies" recommended by the Italian Association of Chartered Accountants ("Consiglio Nazionale dei Dottori Commercialisti e degli Esperti Contabili"), the requirements of CONSOB (the "Commissione Nazionale per le Società e la Borsa", Italy's Securities and Exchange Commission) regarding corporate controls and the guidelines contained in the *Corporate Governance Code* published by Borsa Italiana.

In addition, given that Terna has adopted the traditional governance framework, the Board of Statutory Auditors also fulfils the role of "Internal Control and Audit Committee", which is responsible for carrying out further specific controls and oversight over financial reporting and statutory auditing, as detailed in art. 19 of Legislative Decree 39 of 27 January 2010, as amended by Legislative Decree 135 of 17 July 2016.

The current Board of Statutory Auditors was elected by the Annual General Meeting of Terna Shareholders held on 18 May 2020 and will remain in office until approval of the financial statements for the year ended 31 December 2022. During 2022, the Board of Statutory Auditors performed its responsibilities holding 18 meetings. During the same financial year, the Chairperson of the Board of Statutory Auditors or its members attended 12 meetings of the Board of Directors, 10 meetings of the Audit, Risk, Corporate Governance and Sustainability Committee (hereinafter the "Audit and Risk Committee"), 6 meetings of the Appointments Committee, 9 meetings of the Remuneration Committee and 6 meetings of the Related-Party-Transactions Committee, in addition to the Annual General Meeting of Shareholders held on 29 April 2022.

During the year, the Board of Statutory Auditors, together with the Audit and Risk Committee, met the Supervisory Board ("Organismo di Vigilanza") in order to exchange information.

Responsibilities for the statutory audit required by Legislative Decree 39/2010 (as amended by Legislative Decree 135/2016) have been assigned to the independent auditors Deloitte & Touche

S.p.A. (hereinafter the “Independent Auditors”), appointed by the Annual General Meeting of 8 May 2019 for nine years from 2020 to 2028.

## **1. OVERSIGHT ACTIVITIES**

### *1.1 Oversight of compliance with the law and regulatory and statutory requirements*

The oversight tasks assigned to the Board of Statutory Auditors are governed by art. 2403 of the Italian Civil Code, by the Legislative Decree 58/1998 and by Legislative Decree 39/2010. The Board of Statutory Auditors took into account the amendments to Legislative Decree 39/2010 introduced by Legislative Decree 135/2016 in implementation of Directive 2014/56/EU and of EU Regulation 537/2014.

Based on the indications contained in CONSOB communication DEM/1025564 of 6 April 2001, as amended and integrated by communication DEM/3021582 of 4 April 2003 and, later, by communication DEM/6031329 of 7 April 2006, the Board of Statutory Auditors reports the following with regard to its oversight activities during the year.

The Board of Statutory Auditors periodically obtained information from the Directors, including through the attendance of meetings of the Board of Directors and of Board Committees, on their activities and on the most significant transactions, in terms of their impact on the results of operations and financial position, approved and implemented by the Company, and, pursuant to art. 150, paragraph 1 of the CLF, on those carried out by subsidiaries. Based on the available information, the Board of Statutory Auditors is able to provide reasonable assurance that the above transactions were compliant with the law and the Articles of Association and were not manifestly imprudent, risky or in contrast with resolutions approved by the Annual General Meeting, or such as to compromise the integrity of the Company’s assets.

Furthermore, transactions involving a potential conflict of interest were managed and approved in compliance with the law, the relevant regulations, the Articles of Association and the Guidelines LG006 “*Approval of Significant Transactions and Management of Situations of Interest*”.

During the year, the Board has monitored the correct application of the *Corporate Governance Code* and, specifically, confirms implementation of the recommendations announced by the Chairwoman of the Corporate Governance Committee for 2022.

Due to their significance, the Board of Statutory Auditors notes the following key events during the year, referring readers to the Report on Operations for more detailed information:

- **Entry into service of new lines:** during the course of 2022, Terna continued developing the national grid via all the main investment projects supporting the energy transition and, during that year, 192 km of lines and 5 new stations part of the National Transmission Grid (NTG) have become operational;
- Launch of the **authorization process** by the Italian Ministry of the Environment and Energy Security for **Terna's new electricity connection between Italy and Tunisia** for the creation of a 600 MW direct current undersea energy bridge that will form the link between Europe and Africa;
- **Tyrrhenian Link:** the authorisation procedure for the **East Branch**, that will connect Campania and Sicily, was concluded and the authorisation procedure for the West Branch, which will connect Sicily and Sardinia and that should be concluded by the end of 2023, was initiated;
- **Adriatic Link:** the start of the authorisation procedure for the new undersea power line which will connect Abruzzo and Marche, was initiated in late 2022;
- **2021-2025 Business Plan:** on 24 March 2022, the Board of Directors approved the update of the 2021-2025 business Plan;
- **Hybrid Green Bond:** on 2 February 2022, Terna launched a new "green non-convertible hybrid subordinate perpetual bond" destined to institutional investors and worth €1 billion;
- **ESG linked Term Loan:** on 28 February 2022, Terna signed a bilateral ESG-Linked Term Loan for a total of € 300 million with Intesa Sanpaolo - IMI Corporate & Investment Banking Division as the Original Lender and Sustainability Coordinator having a term of 2 years and an interest rate linked to Terna's performance in relation to specific environmental, social and governance (ESG) indicators;
- **ESG-linked Credit Facility Agreement:** on 3 August, 22 September and 11 October 2022, Terna respectively signed four ESG-linked Credit Facility Agreements for a total €600 million and having a term of three years. The interest rate of the ESG-linked Credit Facility Agreements is linked to Terna's performance in relation to specific environmental, social and governance (ESG) indicators;
- **Issue of bond:** on 15 September 2022, Terna launched a bond issue in Euro, at a fixed rate, in the form of a private placement for a total of €100 million as part of its Euro Medium Term Notes (EMTN) Programme, with a duration of five years and an annual coupon equal to 3.44%;

- **European Bank Financing:** the European Investment Bank (EIB) made available a total amount of €1.90 billion to the Tyrrhenian Link. On 8 November 2022, the first *tranche* was signed equal to €500 million and having a duration of approximately 22 years, destined to support the construction and commissioning of the so-called “East Branch” of the “Tyrrhenian Link”;
- **Ordinary interim dividend for 2022:** on 9 November 2022, the Company’s Board of Directors, having obtained the Independent Auditors’ opinion required by art. 2433-*bis* of the Italian Civil Code, decided to pay an ordinary interim dividend for 2022 of 10.61 euro cents per share, up 8% with respect to the previous year and payable from 23 November 2022;
- **Latam:** on 7 November and 22 December 2022, the first two *closings* concerning the sale of Terna’s electricity transmission activities in South America to CDPQ were finalized, concerning the first three projects in Brazil (“SPE Santa Maria Transmissora de Energia S.A.”, “SPE Santa Lucia Transmissora de Energia S.A.” and “SPE Transmissora de Energia Linha Verde II S.A.”, owners of three power lines in Brazil covering 670km in total) and the project in Uruguay (“Difebal S.A.”) worth over €172 million, in execution of the preliminary agreement signed on 29 April 2022 for the transfer of the entire power line portfolio in Brazil, Peru and Uruguay for a total value of over €265 million;

Among events occurring after the end of the reporting period, the Board of Statutory Auditors notes that:

- on 23 January 2023 a non-executive and independent Director resigned from the office with effect as of the same date, following his appointment by Parliament in joint session to the Superior Council of the Judiciary. No replacement was made as the renewal deadline of the board was almost due;
- on 15 March 2023 the 2023 Development Plan of the national transmission grid involving over €21 billion in investments over the next 10 years was presented;
- on 30 March 2023 Terna signed the contracts for the second and third *tranches* of the €1.9 billion investments for the Tyrrhenian Link with the European Investment Bank (EIB). The financings stipulated on 30 March 2023 represent a further two tranches totalling € 900 million for the construction and commissioning of the “East and West Branches” of the Tyrrhenian Link;

- on 22 March 2023 the Board of Directors approved the “2022 Annual Financial Report”, which includes the “2022 Integrated Report” – combining the Report on Operations, the Sustainability Report and the Consolidated Non-Financial Statement –, the Consolidated Financial Statements for the year ended 31 December 2022, the Annual Financial Statements of the Parent Company for the year ended 31 December 2022 and the 2022 Green Bond Report, into a single document.

Details of other transactions are provided in the notes to the financial statements in the section on events occurring after the end of the reporting period.

In relation to the New Corporate Governance Code, please also note that:

- on 26 January 2022 the Company updated the procedure indicating the “*Application Criteria and Procedure for assessing the independence (under the terms of art. 2 of the Corporate Governance Code)*”, whose main part describes the criteria adopted by the Company to assess the “significance” perimeter (pursuant to Recommendation no. 7, lett. c) and d) of the Code) of commercial, financial and professional relations as well as of the additional remuneration compromising the independence of directors and statutory auditors receiving them;
- on 28 July 2022 the Board of Directors revised and updated the “*Guidelines on the functioning of the Board of Directors*”;
- on 1 March 2023 the Board of Directors adopted the “*Diversity Policy for Administrative and Auditing Bodies of TERNA S.p.A.*”. On the same date, the Board of Directors also approved the “*Guidelines from the Board of Directors of TERNA S.p.A. to shareholders on the size and composition of the new board of directors*” and updated the “*Guidance concerning the maximum number of offices that may be held by directors of TERNA S.p.A. (under the terms of Art. 3, Rec. 15 of the Corporate Governance Code for listed companies)*”;
- the Company revised the procedures regarding market abuse (LG005, LG008, IO412CA and LG010) with the objective of adapting the content to its internal organisational structure and to the modification of the rules concerning the sanctions system for market abuse offences. The solidity and correct functioning of the procedures was also confirmed;
- on 17 March 2023, the Board of Statutory Auditors adopted the document “*Guidelines of the Board of Statutory Auditors of TERNA S.p.A. on the composition and remuneration of the new Board of Statutory Auditors to be appointed by the Shareholders’ Meeting*”.

### ***1.2 Oversight of compliance with the principles of good governance and the adequacy of the organizational structure***

The Board of Statutory Auditors acquired information on and oversaw the adequacy of the organisational structure, compliance with the principles of good governance and the adequacy of the instructions issued by the Company to its subsidiaries pursuant to art. 114, paragraph 2 of the CLF, by obtaining information from the boards of statutory auditors of its Italian-registered subsidiaries, the heads of the relevant departments and the Independent Auditors, as part of the reciprocal exchange of material data and information.

During the year, the Company took steps to implement or comply with the requirements established by Law, the Supervisory Authorities and the *Corporate Governance Code*.

It should be noted that, starting from 2022, a report was drafted and approved for *service* subsidiaries, describing the administrative and accounting structure of the company, the methods and instruments adopted to ensure its concrete operation, also in relation to the prompt detection of a business crisis and loss of the going concern assumption under the terms of Italian Legislative Decree no. 14 of 12 January 2019.

The annual reports prepared by the Boards of Statutory Auditors of the Italian-registered subsidiaries on the subsidiaries' financial statements have not raised any particular problems and any areas of concern. Similarly, no concerns have been raised as a result of the information received from the boards of statutory auditors of the main subsidiaries, including in the form of specific questionnaires completed and signed by these oversight bodies and meetings with oversight bodies.

The Annual Financial Report, information received during Board of Directors' meetings and from the Chief Executive Officer, from senior managers, from the Boards of Statutory Auditors of subsidiaries and from the Independent Auditors has not provided evidence of transactions of an atypical and/or unusual nature with Group companies, or with third parties or related parties.

### ***1.3 Oversight of the internal control and risk management system***

The Board of Statutory Auditors has overseen the adequacy of internal control and risk management system by:

- examining the report of the Audit and Risk Committee on its activities and on the adequacy of the internal control and risk management system;



- examining the Annual Report produced by the Head of Internal Audit on the internal control system;
- examining the reports produced by the Supervisory Board pursuant to Legislative Decree 231/2001;
- holding periodic meetings, including attendance at Audit and Risk Committee meetings with the Internal Audit and Legal and Compliance departments to assess the procedures for planning work, based on the identification and assessment of the main risks present in organizational processes and units;
- holding meetings with the risk management department in order to analyse the Group's strategic risks;
- holding meetings with senior management regarding the organisational and operational impacts of Terna's activities;
- examining the periodic reports prepared by the Audit department in coordination with the Company's Audit and Risk Committee;
- holding meetings with the Manager responsible for financial reporting;
- acquiring information from the oversight bodies of the Italian-registered subsidiaries, pursuant to the first and second paragraphs of art. 151 of the CLF, on material events involving Group companies and on the internal control system, through the completion of specific questionnaires;
- holding meetings with the Company's Supervisory Body;
- discussing the results of the work carried out by the Independent Auditors;
- participating regularly in meetings of the Company's Audit and Risk Committee, the Appointments Committee, the Remuneration Committee and the Related-Party-Transactions Committee.

The Company's Internal Audit function operates on the basis of a multi-year plan, reviewed annually, which defines activities and processes to be audited with a risk-based approach. The plan was approved by the Board of Directors on 1 March 2023, after consulting the Control and Risk Committee and the Board of Statutory Auditors.

The activities carried out by the Audit Department during the year covered the range of planned activities. The department's activities did not identify any major concerns, but did find areas for improvement, which are being closely monitored and which are being addressed during the current financial year.

The Board of Statutory Auditors acknowledges that the annual report prepared by the Audit Department states that existing internal controls are reliable, and that the Audit and Risk Committee has concluded that the internal control and risk management system is adequate with respect to the size and nature of the Company.

On the basis of the activities carried out, the information obtained and the content of the report produced by the Internal Audit department, the Board of Statutory Auditors is not aware of any concerns raising doubts on the validity of the internal control and risk management system.

#### *1.4 Oversight of the administrative and accounting system and the financial reporting process*

The Board of Statutory Auditors monitored the process and checked the effectiveness of the internal control and risk management system over financial reporting.

The Board of Statutory Auditors verified the adequacy of Terna's organisational, administrative and accounting systems and those of its strategic subsidiaries.

The Board of Statutory Auditors held periodic meetings with the Manager responsible for financial reporting in order to exchange information on the administrative and accounting system, and on the system's reliability in providing a true and fair view of operations.

The Board of Statutory Auditors also examined the attestations released by the Chief Executive Officer and the Manager responsible for financial reporting in accordance with the requirements of art. 154-bis, paragraphs 3 and 4 of the CLF, presented on 22 March 2023.

On 22 March 2023, the Board of Directors approved the Impairment Testing procedure drawn up in accordance with the requirements of IAS 36, with the aim of providing guidelines for the conduct of tests on the recoverability of the Terna Group's assets, and for application of the outcome of the tests to the relevant items in the financial statements for 2022.

The Board oversaw (i) the Board of Directors' adoption of the procedure and, subsequently, (ii) the outcomes of the tests carried out by management, which confirmed the recoverability of the assets tested for impairment.

The Board of Statutory Auditors has not identified shortcomings such as to invalidate the judgement on the adequacy and effective application of administrative and accounting procedures.

During periodic meetings between the Independent Auditors and Board of Statutory Auditors, the former did not raise concerns that could cast doubt on the validity of the internal control system relating to the administrative and accounting procedures.

The Board of Statutory Auditors has therefore monitored the observation of the procedure rules on the financial reporting process concerning financial statements and consolidated financial statements.

### ***1.5 Oversight of related-party transactions***

Intra-group or related-party transactions are shown in the notes to the financial statements for 2022 (“Nota Illustrativa della Relazione Finanziaria Annuale 2022”), under “Related-party transactions”, showing transactions with the parent, subsidiaries and associates.

The Board of Statutory Auditors oversaw compliance with the applicable legislation of the Procedure adopted by TERNA S.p.A. regarding Related-party transactions (*i.e.* Guideline LG026 “*Related-Party Transactions Procedure*” and the corresponding Operating Instruction IO414CA), as last amended by the Board of Directors on 16 June 2021, as well as the correct application of the new regulatory provisions that came into force on 1 July 2021.

## **2. INTERNAL CONTROL AND AUDIT COMMITTEE**

Under the terms of art. 19 of Legislative Decree 39/2010, as amended by Legislative Decree 135/2016, the Board of Statutory Auditors is also assigned the role of Internal Control and Audit Committee and, in this role, conducted the required oversight of the statutory audit of the annual and consolidated accounts.

The Board of Statutory Auditors held periodic meetings with the Independent Auditors, Deloitte & Touche S.p.A., in part pursuant to art. 150, paragraph 3 of the CLF, in order to exchange information. During these meetings, the Independent Auditors did not report omissions, shortcomings or irregularities requiring specific disclosure pursuant to art. 155, paragraph 2 of the CLF.

In conducting oversight of the financial statements, the Board of Statutory Auditors held periodic meetings with the Independent Auditors to examine the results of their assessment of the regular nature of accounting systems, to examine the Audit Plan for Terna and the Group and for the state of progress in implementing the Plan.

The Board of Statutory Auditors and the Independent Auditors also engaged in continuous exchanges of information. In particular, the Board (i) noted an adequate level of professional scepticism; (ii) promoted effective and timely dialogue with the Independent Auditors; (iii) oversaw, without identifying any concerns, the impact of remote working for the Independent Auditors' personnel, availing itself of the support provided by company departments.

The Board of Statutory Auditors (i) analysed the activities of the Independent Auditors and, in particular, the methods used, the audit approach applied to the various material components of the financial statements and to the planning of audit work, and (ii) discussed issues relating to the related business risks with the Independent Auditors, thereby enabling the Board of Statutory Auditors to assess the adequacy of the auditors' plans with respect to the structural and risk profiles of the Company and the Group; (iii) continued in-depth examination of the *Audit Quality Indicators*.

The financial statements for the year ended 31 December 2022, accompanied by the Directors' report on operations and the attestation signed by the Chief Executive Officer and the Manager responsible for financial reporting, approved by the Board of Directors at the meeting held on 22 March 2023, were at the same time made available to the Board of Statutory Auditors in view of the Annual General Meeting of shareholders called for 9 May 2023. On 22 March 2023, Terna's Board of Directors approved the consolidated financial statements, as prepared by the Manager responsible for financial reporting and, pursuant to art. 154-bis of the CLF, accompanied by the attestation signed by the Chief Executive Officer and the Manager responsible for financial reporting.

On 17 April 2023, the Independent Auditors issued their audit reports, pursuant to art. 14 of Legislative Decree 39/2010 as amended by Legislative Decree 139/2016 and art. 10 of Regulation (EU) 537/2014, on the separate financial statements and the Terna Group's consolidated financial statements for the year ended 31 December 2022, prepared in compliance with the International Financial Reporting Standards – IFRS adopted by the European Union.

In terms of opinions and attestations, in their audit reports on the separate and consolidated financial statements the Independent Auditors have:

- issued an opinion stating that Terna's separate financial statements and the Terna Group's consolidated financial statements provide a true and fair view of the financial and equity situation of the Company and Group at 31 December 2022, and of the economic result and cash flows for the financial year ended on that date, in conformity with the International Financial Reporting Standards adopted by the European Union, as well as with provisions issued in implementation of art. 9 of Legislative Decree 38/2005;

- issued an opinion on the consistency of the Report on Operations accompanying the separate and consolidated financial statements for the year ended 31 December 2022 and certain specific information in the “Report on Corporate Governance and Ownership Structures” indicated in art. 123-bis, paragraph 4 of the CLF, responsibility for which lies with the Directors of Terna, with the annual financial statements and preparation in compliance with the law;
- declared that, with regard to potential material errors in the Report on Operations, based on the information obtained and their understanding of the Company and associated context acquired during audit activities, they had nothing to report;
- declared that the annual financial statements were prepared in XHTML format in compliance with the provisions of Delegated Regulation (EU) 2019/815 and the consolidated financial statements was compiled in all material ways in compliance with the provisions of the delegated regulation;
- confirmed the Directors’ approval of the Non-financial Statement and expressed the following conclusions: *“On the basis of the work carried out, no matters have come to our attention that would cause us to conclude that the Terna Group's NFS for the year ended 31 December 2022 has not been prepared, in all material aspects, in compliance with the requirements of arts 3 and 4 of the Decree and GRI Standards.”*

On 17 April 2023, the Independent Auditors also presented the Board of Statutory Auditors with the additional report required by art. 11 of Regulation (EU) 537/2014, in which the auditors do not identify any significant issues regarding the system of internal controls in relation to the financial reporting process, to be brought to the attention of persons responsible for the governance activities. The Board of Statutory Auditors will inform the Company’s Board of Directors of the outcome of the statutory audit, providing the Directors with the additional report required by art. 11 of Regulation (EU) 537/2014, accompanied by any observations, pursuant to art. 19 of Legislative Decree 39/2010, as extended by Legislative Decree 135/2016 and Regulation (EU) 537/2014.

In their additional report, the Independent Auditors have provided the Board of Statutory Auditors with the declaration regarding their independence, as required by art. 6 of Regulation (EU) 537/2014, which does not contain evidence of any situations that might compromise such independence.

The Independent Auditors received attestation and other engagements during 2022, as described in the Annual Financial Report for 2022, prepared in accordance with art. 149-*duodecies* of the Regulations for Issuers.

The fees for these engagements amount to € 116,263 and break down as follows:

- audit of unbundling for ARERA	€ 8,848
- opinion on payment of interim dividends	€ 17,647
- EMTN comfort letters and other issues	€ 38,470
- attestation of Non-Financial Statement	€ 17,298
- Green Bond Report	€ 34,000

### 3. OTHER ASSETS

#### *3.1 Method for effective implementation of corporate governance rules*

In carrying out its duties, as required by art. 2403 of the Italian Civil Code and art. 149 of the CLF, the Board of Statutory Auditors monitored effective implementation of the corporate governance rules provided for in the corporate governance codes Terna has stated that it has adopted. The Company adheres to the Corporate Governance Code drawn up by Borsa Italiana and has prepared, pursuant to art. 123-*bis* of the TUF, the annual "Report on Corporate Governance and Ownership Structures".

The report provides information on, among other things (i) ownership structures; (ii) the corporate governance rules adopted; (iii) the internal control and risk management system; (iv) procedures for General Meetings of shareholders; (v) shareholder rights and how they are exercised; (vi) composition and terms of reference of the management and oversight bodies and board committees.

The Board of Directors approved the "Report on Corporate Governance and Ownership Structures" on 22 March 2023.

The Board of Statutory Auditors has verified correct application of the criteria and procedures adopted by the Board of Directors for assessing the independence of its members in accordance with the procedure adopted by the Board of Directors.

The Board of Directors, with the assistance of an external consulting firm, has conducted a board review, whose findings were discussed at the meeting held on 14 December 2022 and described in Terna's Report on Corporate Governance.

At the end of its office, the Board of Statutory Auditors drafted the opinion on the *"Guidelines of the Board of Statutory Auditors of TERNA S.p.A. on the composition and remuneration of the new Board of Statutory Auditors to be appointed by the Shareholders' Meeting"*.

### **3.2 Remuneration policies**

The Board of Statutory Auditors has verified the processes followed by the Company in drawing up the Company's remuneration policies, with particular regard to the criteria used in determining the remuneration of the Chief Executive Officer and of the Key Management Personnel, providing, where required by law, the related opinions. Following the proposal of the Remuneration Committee, the Board of Directors' meeting of 22 March 2023 approved the *"Report on the Remuneration Policy and Remuneration Paid"*, prepared pursuant to art. 123-ter of the TUF and in compliance with art. 5 of the Code of Corporate Governance.

### **3.3 Omissions or shortcomings, opinions provided and initiatives undertaken**

The Board of Statutory Auditors did not receive any complaints pursuant to art. 2408 of the Italian Civil Code, and did not receive any petitions from third parties during 2022.

On the basis of activities carried out and the information obtained, the Board of Statutory Auditors is not aware of any omissions, shortcomings, irregularities or any other circumstances that require reporting to the supervisory authorities or mention in this report.

### **3.4 Non-Financial Statement**

In carrying out its duties, the Board of Statutory Auditors oversaw compliance with the provisions of Legislative Decree 254 of 30 December 2016 and of the CONSOB Regulation implementing the Decree and adopted in Resolution 20267 of 18 January 2018, with particular reference to the drafting process and the content of the Non-financial Statement ("NFS") prepared by Terna.

The NFS was approved at the Board of Directors' meeting of 22 March 2023, as a document included in the report on operations for the year ended 31 December 2022.

The Independent Auditors issued their report on the NFS pursuant to art. 3, paragraph 10 of Legislative Decree 254/2016 on 17 April 2023. The report states that no matters have been brought

to the attention of the Independent Auditors that would cause them to conclude that the Terna Group's NFS for the year ended 31 December 2022 has not been prepared, in all material aspects, in compliance with the requirements of arts 3 and 4 of 254/2016 and the *Global Reporting Initiative Sustainability Reporting Standards*.

The Board of Statutory Auditors obtained, partly through participation in Audit and Risk Committee meetings, periodic updates on the preparation of the NFS and, in carrying out its duties, has not become aware of any breaches of the related legislation.

### ***3.5 Review of the Board of Statutory Auditors***

In accordance with Standard Q.1.1 in the Standards of Conduct for the Boards of Statutory Auditors of Listed Companies, the Board of Statutory Auditors has, with the assistance of an external consulting firm, conducted a review about its composition, size and performance, with the outcome of the Review presented to the Board of Directors at the meeting held on 14 December 2022. With regard to the requirements and competencies of individual members and of the Board as a whole, the Review confirmed that:

- in addition to satisfying the related integrity and professional requirements, and there being no evidence of the grounds for disqualification provided for in the relevant legislation, all the Standing Auditors meet the independence requirements provided for in the *Corporate Governance Code*;
- the Board of Statutory Auditors guarantees the gender and age diversity of its members;
- each Standing Auditor possesses good knowledge and experience in several areas of expertise;
- the Board of Statutory Auditors possesses an adequate level of expertise overall.

## **4. CONCLUSIONS**

Based on the above, and considering the content of the reports issued by the Independent Auditors, and the attestations released jointly by the Chief Executive Officer and the Manager responsible for financial reporting, the Board of Statutory Auditors, within the scope of its responsibilities, expresses a favourable opinion on the proposal of the approval of Terna's financial statements for the year ended 31 December 2022 and on the proposal of the allocation of net profit for the year of € 834,138,704.35 as formulated by the Board of Directors.



Rome, 17 April 2023

The Board of Statutory Auditors

Mario M. Busso (Chairman)

Raffaella Fantini (Standing Auditor)

Vincenzo Simone (Standing Auditor)

*Text translated by the Company from the original italian version signed by the members of the Board of Statutory Auditors*

INDEPENDENT AUDITOR'S REPORT  
PURSUANT TO ARTICLE 14 OF LEGISLATIVE DECREE No. 39 OF JANUARY 27, 2010  
AND ARTICLE 10 OF THE EU REGULATION 537/2014

To the Shareholders of  
Terna S.p.A.

## REPORT ON THE AUDIT OF THE FINANCIAL STATEMENTS

### Opinion

We have audited the financial statements of Terna S.p.A. (the "Company"), which comprise the statement of financial position as at 31 December 2022, the income statement, the statement of comprehensive income, the statement of changes in equity and the statement of cash flows for the year then ended, and notes to the financial statements, including a summary of significant accounting policies.

In our opinion, the accompanying financial statements give a true and fair view of the financial position of the Company as at 31 December 2022, and of its financial performance and its cash flows for the year then ended in accordance with International Financial Reporting Standards as adopted by the European Union and the requirements of national regulations issued pursuant to art. 9 of Italian Legislative Decree no. 38/05.

### Basis for Opinion

We conducted our audit in accordance with International Standards on Auditing (ISA Italia). Our responsibilities under those standards are further described in the *Auditor's Responsibilities for the Audit of the Financial Statements* section of our report. We are independent of the Company in accordance with the ethical requirements applicable under Italian law to the audit of the financial statements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

### Key Audit Matters

Key audit matters are those matters that, in our professional judgment, were of most significance in our audit of the financial statements of the current period. These matters were addressed in the context of our audit of the financial statements as a whole, and in forming our opinion thereon, and we do not provide a separate opinion on these matters.

*Investments for the operation and development of the electricity transmission grid, relevant for the purposes of determining the transmission and dispatching activities charges*

**Description of the key audit matter** As of 31 December 2022, the Company accounts in “Property, Plant, and Equipment” and “Intangible Assets”, respectively equal to Euro 14.253 million and Euro 479 million, the amounts mainly related to investments made for operation and development of the Italian national transmission grid (NTG) for high and extra-high voltage power. Investments made in the financial year relating to these items totalled Euro 1.587 million.

The Company operates as a natural monopoly and within a market regulated by the Italian Regulatory Authority for Energy, Networks and Environment (Autorità di Regolazione per Energia Reti e Ambiente, “ARERA”), which defines, among the others, the rules for the remuneration of the transmission and dispatching services. In particular, the regulated revenues for these services are determined annually by ARERA and provide for recognition of a predefined return on the regulatory net invested capital recognized (RAB – Regulated Asset Base), of the relative depreciation and of some operating expenses. The RAB value is determined by ARERA mainly through the revalued historical cost method.

We believe that investments for the operation and development of the electricity transmission grid represent a key audit matter for the Company’s financial statements as of 31 December 2022 due to: i) the relevance of the tangible and intangible assets related to operation and development of the electricity transmission grid compared to the Company’s total assets, ii) the relevance of the investments made during the year, iii) their impact in determining the fees for the transmission and dispatching services.

Notes “11. Property, Plant, and Equipment “ and “13 Intangible Assets” of the financial statements include the disclosure on the investments for the operation and development of the electricity transmission grid.

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**Audit procedures performed** With reference to investments for the operation and development of the electricity transmission grid, our audit procedures included, among the others, the following:

- understand the processes for recognition of such investments in the financial statements;
- understand the relevant controls implemented by the Company in relation to these processes and assessment of their operating effectiveness;

- comparative analysis of the items “Property, Plant, and Equipment” and “Intangible Assets”, as well as critical analysis of the composition of investments made during the year related to these items, including the analysis of any unusual item;
- with reference to investments occurred during the year, selection of a sample of transactions and test of the compliance with the capitalization criteria provided by accounting standards;
- test the accurate start of depreciation when the asset is available for use for a sample of assets recorded within tangible and intangible assets entered into depreciation during the year, also through the analysis of their ageing;
- test the correct application of the depreciation rate with respect to the asset category and recalculation of the amortisation and depreciation for the year.

Finally, we assessed the adequacy of the disclosure provided in the notes to the financial statements and its compliance with the accounting standards.

## **Responsibilities of the Directors and the Board of Statutory Auditors for the Financial Statements**

The Directors are responsible for the preparation of financial statements that give a true and fair view in accordance with International Financial Reporting Standards as adopted by the European Union and the requirements of national regulations issued pursuant to art. 9 of Italian Legislative Decree no. 38/05 and, within the terms established by law, for such internal control as the Directors determine is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, the Directors are responsible for assessing the Company’s ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless they have identified the existence of the conditions for the liquidation of the Company or for the termination of the operations or have no realistic alternative to such choices.

The Board of Statutory Auditors is responsible for overseeing, within the terms established by law, the Company’s financial reporting process.

## **Auditor’s Responsibilities for the Audit of the Financial Statements**

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor’s report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with International Standards on Auditing (ISA Italia) will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

As part of an audit in accordance with International Standards on Auditing (ISA Italia), we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by the Directors.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Company's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the Company to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.

We communicate with those charged with governance, identified at an appropriate level as required by ISA Italia, regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

We also provide those charged with governance with a statement that we have complied with relevant ethical requirements regarding independence applicable in Italy, and to communicate with them all relationships and other matters that may reasonably be thought to bear on our independence and, where applicable, actions taken to eliminate threats or safeguards applied.

From the matters communicated with those charged with governance, we determine those matters that were of most significance in the audit of the financial statements of the current period and are therefore the key audit matters. We describe these matters in our auditors' report.

**Other information communicated pursuant to art. 10 of the EU Regulation 537/2014**

The Shareholders' Meeting of Terna S.p.A. has appointed us on 8 May 2019 as auditors of the Company for the years from 31 December 2020 to 31 December 2028.

We declare that we have not provided prohibited non-audit services referred to in art. 5 (1) of EU Regulation 537/2014 and that we have remained independent of the Company in conducting the audit.

We confirm that the opinion on the financial statements expressed in this report is consistent with the additional report to the Board of Statutory Auditors, in its role of Audit Committee, referred to in art. 11 of the said Regulation.

## REPORT ON OTHER LEGAL AND REGULATORY REQUIREMENTS

### Opinion on the compliance with the provisions of the Delegated Regulation (EU) 2019/815

The Directors of Terna S.p.A. are responsible for the application of the provisions of the European Commission Delegated Regulation (EU) 2019/815 with regard to the regulatory technical standards on the specification of the single electronic reporting format (ESEF – European Single Electronic Format) (hereinafter referred to as the “Delegated Regulation”) to the financial statements as at 31 December 2022, to be included in the annual financial report.

We have carried out the procedures set forth in the Auditing Standard (SA Italia) n. 700B in order to express an opinion on the compliance of the financial statements with the provisions of the Delegated Regulation.

In our opinion, the financial statements as at 31 December 2022 have been prepared in XHTML format in accordance with the provisions of the Delegated Regulation.

### Opinion pursuant to art. 14, paragraph 2 (e), of Legislative Decree 39/10 and art. 123-bis, paragraph 4, of Legislative Decree 58/98

The Directors of Terna S.p.A. are responsible for the preparation of the report on operations and the report on corporate governance and ownership structure of Terna S.p.A. as at 31 December 2022, including their consistency with the related financial statements and their compliance with the law.

We have carried out the procedures set forth in the Auditing Standard (SA Italia) n. 720B in order to express an opinion on the consistency of the report on operations and some specific information contained in the report on corporate governance and ownership structure set forth in art. 123-bis, n. 4 of Legislative Decree 58/98 with the financial statements of Terna S.p.A. as at 31 December 2022 and on their compliance with the law, as well as to make a statement about any material misstatement.

In our opinion, the above-mentioned report on operations and information contained in the report on corporate governance and ownership structure are consistent with the financial statements of Terna S.p.A. as at 31 December 2022 and are prepared in accordance with the law.

With reference to the statement referred to in art. 14, paragraph 2 (e), of Legislative Decree 39/10, made on the basis of the knowledge and understanding of the entity and of the related context acquired during the audit, we have nothing to report.

DELOITTE & TOUCHE S.p.A.

Signed by  
**Domenico Falcone**  
Partner

Rome, Italy  
April 17, 2023

*This independent auditor's report has been translated into the English language solely for the convenience of international readers. Accordingly, only the original text in Italian language is authoritative.*



Terna



A photograph of a modern office building at night. The building's facade is dark, but the Terna logo is brightly illuminated in white. The logo consists of a square icon with a grid pattern to the left of the word "Terna". The building has large glass windows, some of which are lit from within, showing office interiors. Blue LED light strips are mounted along the edges of the building's facade. In the background, several multi-story residential apartment buildings are visible, some with balconies and lit windows. The sky is dark, and there are some light trails from a moving vehicle in the foreground.

**Terna**

**GREEN BOND REPORT 2022**

# Green Bond Report 2022

Since 2018, Terna has issued **five green bonds** as part of its €9,000,000,000 Euro Medium Term Notes (EMTN) programme. In addition, in February 2022, the Company issued, on a standalone basis, the first subordinated hybrid green bond to be issued by an Italian corporate. Details of the individual issues are provided below:

- on 16 July 2018, Terna successfully launched its first green bond issue, worth €750 million and having a 5-year term;
- on 10 January 2019, the Company launched a fixed-rate green bond issue in the form of a private placement, amounting to €250 million, having reopened the bond issue announced to the market on 16 July 2018;
- on 3 April 2019, the Company launched an issue of euro-denominated green bonds with a total nominal value of €500 million and a 7-year term;
- on 17 July 2020, Terna successfully placed a new green bond amounting to €500 million and having a 12-year term;
- on 16 June 2021, Terna launched a new green bond issue amounting to €600 million and having an 8-year term;
- on 2 February 2022, Terna launched its first non-convertible, perpetual subordinated hybrid green bond amounting to €1 billion.

The net proceeds from the issues are being used to fund the Company's **Eligible Green Projects**, selected on the basis of the **Green Bond Principles** issued in 2018 and subsequent amendments published by the International Capital Market Association ("ICMA").

At 31 December 2022, Terna had drawn up and published four **Green Bond Frameworks** to enhance the transparency and the quality of the green bonds issued.

The first was adopted on 16 July 2018, the second on 15 July 2020 and the third on 15 June 2021, whilst the fourth was published on 12 January 2022. These Frameworks and the second party opinions provided by the independent advisor, Vigeo Eiris (now Moody's ESG), are available to the public on the Company's website ([www.terna.it](http://www.terna.it)).

In this regard, it should be noted that the first three bond issues are covered by the Green Bond Framework drawn up in 2018, the fourth bond issue is covered by the Green Bond Framework of July 2020, the fifth bond issue by the Green Bond Framework of June 2021, whilst the hybrid issue dated 2 February 2022 was issued in compliance with the updated Green Bond Framework of January 2022.

Vigeo Eiris has assessed the contribution of all Terna’s bond issues to sustainability, assigning them the best possible rating. Vigeo Eiris has also expressed an opinion on the issuer’s overall approach to managing ESG issues, judging Terna to be at an “advanced” level<sup>1</sup>. In its latest Second Party Opinion, the rating agency also classed Terna’s framework to be consistent with the recommendations in the Taxonomy Climate Delegated Act<sup>2</sup>. This consistency was confirmed, with regard to 2022, via the mapping of the activities carried out by the Group to identify those that are eligible and in alignment with the Taxonomy. The analysis revealed that all the investment carried out to deliver the Eligible Green Projects, described in this report, are aligned with the object of mitigating climate change. Finally, Vigeo Eiris considered the Eligible Green Projects to be in line with the following UN SDGs:

**UN SDGs**



Ensure universal access to affordable, reliable and modern energy services.



Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation.



Take urgent action to combat climate change and its impacts.



Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss.

With this report, Terna is delivering on its commitment, made at the time of the bond issues, to report annually on its use of the proceeds and the environmental benefits resulting from the projects financed with those proceeds.

In addition to updating the report on the issues of April 2019, July 2020 and June 2021, this edition of the Green Bond Report provides information for the first time on the issue carried out in February 2022.

As noted in the previous reports (see page 5 of the Green Bond Report 2020 and the Green Bond Report 2019 from page 251 of the Sustainability Report for 2019), the proceeds from the bond issues of 16 July 2018 and 10 January 2019 have been fully allocated and accounted for.

The indicators shown in the following tables have been determined in accordance with the “Green Bond Framework”, showing the relevant amounts, how the proceeds have been allocated and the main environmental benefits for each environmental category within which the projects must fall in order to qualify as “eligible”.

<sup>1</sup> Level of evaluation used by Vigeo Eiris – Performance: Advanced, Robust, Moderate, Weak.

<sup>2</sup> Delegated Regulation (EU) 2021/2139 of the European Commission, dated 4 June 2021.

The various categories of environmental benefit indicated in the four Green Bond Frameworks published as of 31 December 2022 are shown below:

CATEGORY OF ENVIRONMENTAL BENEFIT	DESCRIPTION
<b>Renewable energy</b>	<p>Projects designed to boost renewable energy production:</p> <ul style="list-style-type: none"> <li>• Connecting renewable energy plants (grid infrastructure designed to directly connect renewable energy plants to the transmission grid);</li> <li>• Integrating renewable energy production, improving the stability of the grid (grid infrastructure that enables a greater volume of renewable energy to be injected into the transmission grid, by, for example, relieving congestion in a certain part of the grid).</li> </ul>
<b>Energy efficiency</b>	<p>Projects designed to reduce the CO<sub>2</sub> emissions produced by the electricity system by reducing grid losses:</p> <ul style="list-style-type: none"> <li>• Grid infrastructure that enhances transmission efficiency (reducing the difference between power produced and energy consumed, all other conditions being equal).</li> </ul>
<b>Soil use &amp; Biodiversity</b>	<p>Projects that aim to reduce soil use and the impact on terrestrial biodiversity:</p> <ul style="list-style-type: none"> <li>• Optimisation of the grid, involving the demolition of kilometres of existing overhead line. Demolition of the lines reduces the permanent occupation of land by overhead lines and the need to cut back the surrounding vegetation. The greatest impact occurs when overhead lines cross areas of environmental interest, such as nature reserves, wetlands and other protected areas. In addition, the demolitions also eliminate the albeit low risk of birds colliding with power lines. Finally, it should be noted that the projects in this category – such as putting cables underground – also reduce the visual impact of electricity infrastructure, an aspect considered one of the most significant impacts by local stakeholders.</li> </ul>
<b>Quality, security and resilience of electricity transmission Infrastructure</b>	<p>Projects that aim to ensure the quality, security and resilience of electricity transmission infrastructure:</p> <ul style="list-style-type: none"> <li>• Projects included in the National Development Plan, focusing on the quality and security of the service by resolving operational issues that are in part linked with the ecological transition, involving the decommissioning of thermoelectric plants and the integration of renewable sources.</li> <li>• Investment in the construction of new power lines and/or substations with the aim of boosting the resilience of the national transmission grid ("NTG") in the areas of Italy most exposed to extreme climate events (e.g., high winds, snow and ice).</li> </ul>

## Allocation reporting

Information on how the proceeds from the bond issues of April 2019, July 2020, June 2021 and February 2022 have been used is provided below, showing aggregate amounts and data for each Eligible Green Project at 31 December 2022.

The following tables also show, for the four bonds, the percentage of the proceeds allocated to refinance parts of projects yet to be completed and to refinance projects already completed at the date of the bond issue (% refinanced out of the total) and the balance of unallocated funds and/or funds still held by the issuer at 31 December 2022.

Finally, with regard to the issues of July 2018 and January 2019, the related proceeds had been fully allocated by the time of the previous reports. As a result, the issues are not covered in this report. Further details are provided on page 5 of the Green Bond Report 2020 and on page 251 of the Green Bond Report 2019.

### Issue of 3 April 2019

DESCRIPTION OF INDICATOR	AMOUNT (€)
Total amount for basket of projects included in the Green Bond	528,177,132
- % of basket refinanced	44
Net Green Bond proceeds	498,430,000
Green Bond proceeds allocated at 31 December 2022	448,466,871
Funds/equivalent funds held by the issuer at 31 December 2022	49,963,129



CATEGORY OF ELIGIBLE GREEN PROJECT	ELIGIBLE GREEN PROJECT	AMOUNT INCLUDED IN GB (€)	PROCEEDS ALLOCATED AT 31 DECEMBER 2022 (€)
Renewable energy	CAPRI-MAINLAND AND SORRENTO INTERCONNECTION	67,446,846	6,573,823
	150kV OPPIDO SUBSTATION	5,419,541	5,560,760
	150kV FOGGIA SUBSTATION/ CONNECTION OF RENEWABLES	3,850,529	3,970,114
	UPGRADE 150kV PUGLIA WIND FARM COLLECTOR	14,430,564	16,631,144
	380kV FOGGIA - BENEVENTO II POWER LINE	74,088,460	75,093,872
	REORGANISATION NORTH CALABRIA GRID	5,998,089	4,864,346
	380kV SORGENTE – RIZZICONI POWER LINE	3,810,065	3,968,233
	CARDANO-NEW ARMoured CABLE	9,611,345	9,884,306
	150kV CASTROCUCO – MARATEA LINE	2,000,000	-
	380kV SUBSTATION FOR FOGGIA-BENEVENTO AREA WIND FARMS	55,849,694	47,027,106
	RATIONALISATION 220/132kV IN VALLE SABBIA	35,012,603	6,654,886
	WIND ENERGY S.R.L. BONORVA PLANT	4,578,795	4,589,401
	RENEWABLE ENERGY COLLECTOR IN SICILY	10,674,566	10,732,240
	150kV FIUME SANTO-PORTO TORRES LINE	4,801,527	8,295,332
	PHOENIX RENEWABLES CANINO PHOTOVOLTAIC PLANT	203,605	260,216
	132kV PIETRAMALA (FI) – ALL, PARCO E. SUBSTATION	6,592,286	6,689,527
	220kV GLORENZA SUBSTATION	2,918,236	44,167
	380kV BRINDISI SOUTH SUBSTATION	1,936,947	2,227,907
	380kV GARAGUSO SUBSTATION AND CONNECTIONS	6,490,626	7,586,273
	EISACKWERK RIO PUSTERIA	3,405,397	147,340
	WORK ON GRID IN NAPLES-CASERTA AREA	4,028,000	4,881,469
	150kV PICERNO SUBSTATION FOR CONNECTIONS	233,663	133,200
GRID TO COLLECT RENEWABLE ENERGY IN FOGGIA-BARLETTA AREA	6,339,481	6,368,804	
150kV SAN SEVERO SUBSTATION FOR CONNECTIONS	12,394,098	12,563,076	
<b>TOTAL renewable energy</b>		<b>342,114,963</b>	<b>314,747,542</b>
Energy efficiency	UPGRADE OF THE GRID IN UMBRIA	5,006,665	4,962,020
	ITALY-AUSTRIA INTERCONNECTION	3,901,548	3,931,584
	RATIONALISATION 132kV PIOMBINO AREA	6,270,246	5,833,803
	UPGRADE OF MONTECORVINO SUBSTATION	7,030,552	4,943,919
	PATERNÒ - PANTANO - PRIOLO	66,871,640	21,993,990
	NEW CONNECTION IN PROVINCE OF TREVISO	10,043,436	9,787,123
	RATIONALISATION 220kV CITY OF TURIN	38,997,412	34,204,955
	220kV SCHIO SUBSTATION	347,463	347,463
	REORGANISATION OF HV TERAMO VILLANOVA GRID	4,645,945	4,795,571
	220kV GLORENZA-TIRANO-PREMADIO LINE	8,787,424	8,873,986
<b>TOTAL energy efficiency</b>		<b>151,902,332</b>	<b>99,674,414</b>
Soil use & Biodiversity	REORGANISATION 220kV GRID CITY OF NAPLES	31,995,143	33,868,932
	REORGANISATION FLORENCE METROPOLITAN AREA	2,164,694	175,982
<b>TOTAL Soil use &amp; Biodiversity</b>		<b>34,159,837</b>	<b>34,044,914</b>
<b>GRAND TOTAL</b>		<b>528,177,132</b>	<b>448,466,871</b>

The sums of the individual items and the sub-totals shown in the table may differ due to the process of rounding the data presented.

## Issue of 17 July 2020

DESCRIPTION OF INDICATOR	AMOUNT (€)
Total amount for basket of projects included in the Green Bond	505,609,230
- % of basket refinanced	43
Net Green Bond proceeds	496,865,000
Green Bond proceeds allocated at 31 December 2022	441,842,390
Funds/equivalent funds held by the issuer at 31 December 2022	55,022,610

CATEGORY OF ELIGIBLE GREEN PROJECT	ELIGIBLE GREEN PROJECT	AMOUNT INCLUDED IN GB (€)	PROCEEDS ALLOCATED AT 31 DECEMBER 2022 (€)
Renewable Energy	380KV VOLPAGO SUBSTATION	3,280,832	3,280,832
	WORK ON THE HV GRID FOR RENEWABLE ENERGY COLLECTION IN BASILICATA	6,214,013	4,303,734
	WORK ON THE HV GRID FOR RENEWABLE ENERGY COLLECTION IN PUGLIA	1,138,831	1,121,963
	WORK ON THE HV GRID FOR RENEWABLE ENERGY COLLECTION IN CAMPANIA	1,412,125	-
	OPPIMITTI CONNECTION	8,293,917	8,921,016
	ROTELLO SUBSTATION	23,895,048	24,182,909
	ASCOLI SATRIANO SUBSTATION	4,152,349	4,152,349
	WORK ON THE HV GRID FOR RENEWABLE ENERGY COLLECTION IN BETWEEN CAMPANIA AND MOLISE	892,830	892,830
	220KV GLORENZA SUBSTATION	10,247,198	12,685,829
	150KV GOLETO-AVELLINO NORTH POWER LINE	819,844	720,798
	TERME DI BRENNERO-BOLZANO RAILWAY LINE	370,000	-
	ARVIER HYDROELECTRIC CONNECTION	620,134	610,191
	AW2 WIND FARM CONNECTION	268,363	306,222
	150KV CASTELNUOVO DI CONZA INTERCONNECTOR SUBSTATION	259,340	261,279
	INERZIA STORNARELLA CONNECTION	50,000	-
	BELEOLICO TORRE TRIOLO CONNECTION	4,500,000	6,406,523
	LIGURIA-TUSCANY WIND FARM CONNECTION	1,253,825	1,868,330
	SYNCHRONOUS COMPENSATORS FOR MAIDA SUBSTATION	27,408,667	31,175,883
	SYNCHRONOUS COMPENSATORS FOR MATERA SUBSTATION	27,368,308	28,872,246
	SYNCHRONOUS COMPENSATORS FOR FOGGIA SUBSTATION	19,456,523	19,811,872
	SYNCHRONOUS COMPENSATORS FOR CANDIA SUBSTATION	14,583,015	15,956,843
	SYNCHRONOUS COMPENSATORS FOR FANO SUBSTATION	16,005,007	14,326,280
	SYNCHRONOUS COMPENSATORS FOR GARIGLIANO SUBSTATION	17,483,534	17,784,967
	380KV FOGGIA – VILLANOVA POWER LINE	103,157,397	103,406,271
	VALLE SABBIA	20,058,007	624,469
	SYNCHRONOUS COMPENSATORS FOR BRINDISI PIGNICELLE SUBSTATION	24,111,378	26,508,436
	<b>TOTAL Renewable energy</b>	<b>337,300,485</b>	<b>328,182,071</b>
	Energy efficiency	RATIONALISATION IN CITY OF MILAN	5,498,475
RATIONALISATION OF NORTH-WEST TURIN AREA		2,226,968	2,225,677
REORGANISATION OF ROME METROPOLITAN AREA		2,912,034	615,462
REORGANISATION OF PALERMO METROPOLITAN AREA		38,893,036	38,849,884
380KV MAGENTA SUBSTATION	28,199,834	11,139,109	
<b>TOTAL Energy efficiency</b>	<b>77,730,346</b>	<b>58,648,383</b>	
Soil use & Biodiversity	RATIONALISATION IN CITY OF TURIN	6,662,775	6,671,091
	380KV SORGENTE – RIZZICONI POWER LINE	35,188,011	5,972,649
	REORGANISATION OF 220KV GRID IN CITY OF NAPLES	36,386,859	32,094,692
	REORGANISATION OF FLORENCE METROPOLITAN AREA	11,398,963	8,430,743
150KV CASTROCUCCO – MARATEA POWER LINE	941,790	1,842,760	
<b>TOTAL Soil use &amp; Biodiversity</b>	<b>90,578,399</b>	<b>55,011,936</b>	
<b>GRAND TOTAL</b>	<b>505,609,230</b>	<b>441,842,390</b>	

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## Issue of 16 June 2021

DESCRIPTION OF INDICATOR	AMOUNT (€)
Total amount for basket of projects included in the Green Bond	615,049,714
- % of basket refinanced <sup>3</sup>	11
Net Green Bond proceeds	597,594,000
Green Bond proceeds allocated at 31 December 2022	163,128,129
Funds/equivalent funds held by the issuer at 31 December 2022	434,465,871

CATEGORY OF ELIGIBLE GREEN PROJECT	ELIGIBLE GREEN PROJECT	AMOUNT INCLUDED IN GB (€)	PROCEEDS ALLOCATED AT 31 DECEMBER 2022 (€)
Renewable energy	SYNCHRONOUS COMPENSATOR VILLANOVA	38,754,349	31,308,444
	SYNCHRONOUS COMPENSATOR CODRONGIANOS	30,151,656	12,890,014
	SYNCHRONOUS COMPENSATOR SUVERETO	27,048,257	-
	SYNCHRONOUS COMPENSATOR ROSARA	28,789,035	-
	132KV PRATI DI VIZZE-STEINACH POWER LINE	10,680,389	14,470,794
	132KV APECCHIO SUBSTATION	2,271,044	2,474,383
<b>TOTAL Renewable energy</b>		<b>137,694,729</b>	<b>61,143,635</b>
Quality, security and resiliency of electricity transportation Infrastructure	UPGRADE 132KV GENOVA METROPOLITAN AREA	23,441,188	25,636,347
	380-150KV PALO DEL COLLE SUBSTATION	9,260,109	9,262,291
	UPGRADE OF NORD SCHIO GRID	7,654,036	7,608,369
	REORGANISATION UPPER BELLUNESE AREA	30,355,790	22,204,540
	380KV UDINE WEST-REDIPUGLIA POWER LINE	15,853,347	14,982,357
	ITALY-FRANCE INTERCONNECTOR	155,384,449	-
	132KV ELBA-MAINLAND POWER LINE	89,862,355	12,206,223
	REORGANISATION OF SORRENTINA PENINSULA GRID	7,027,677	8,908,222
	380KV COLUNGA-CALENZANO POWER LINE	92,938,967	1,176,145
132KV RICCIONE-RIMINI RING	45,577,068	-	
<b>TOTAL Quality, security and resiliency of electricity transportation Infrastructure</b>		<b>477,354,985</b>	<b>101,984,494</b>
<b>GRAND TOTAL</b>		<b>615,049,714</b>	<b>163,128,129</b>

The sums of the individual items and the sub-totals shown in the table may differ due to the process of rounding the data presented.

## Issue of 2 February 2022

DESCRIPTION OF INDICATOR	AMOUNT (€)
Total amount for basket of projects included in the Green Bond	1,033,816,843
- % of basket refinanced <sup>4</sup>	75
Net Green Bond proceeds	991,360,000
Green Bond proceeds allocated at 31 December 2022	811,871,484
Funds/equivalent funds held by the issuer at 31 December 2022	179,488,516

<sup>3</sup> In accordance with the commitment given in the Green Bond Framework of June 2021, the refinanced projects were completed within 36 months of the latest annual financial statements prior to the date of issue of the relevant Green Bond (16 June 2021).

<sup>4</sup> In accordance with the commitment given in the Green Bond Framework of January 2022, the refinanced projects were completed within 36 months of the latest annual financial statements prior to the date of issue of the relevant Green Bond (2 February 2022).



CATEGORY OF ELIGIBLE GREEN PROJECT	ELIGIBLE GREEN PROJECT	AMOUNT INCLUDED IN GB (€)	PROCEEDS ALLOCATED AT 31 DECEMBER 2022 (€)	
Renewable Energy	BELCASTRO SUBSTATION	37,318,406	34,062,968	
	ARIANO IRPINO SUBSTATION	19,701,651	-	
	SCANDALE-MAGISANO CONNECTIONS	3,870,042	4,070,928	
	FOIANO SUBSTATION	11,040,453	-	
	FOIANO-GINESTRA-ARIANO POWER LINE	9,709,331	-	
	ITALY-MONTENEGRO INTERCONNECTOR	621,899,399	619,056,574	
	MORCONE SUBSTATION	10,036,507	10,043,990	
	PONTELANDOLFO SUBSTATION	13,850,365	13,850,365	
	PONTELANDOLFO-CASTELPAGANO POWER LINE	9,661,239	9,676,739	
	RUMIANCA SUBSTATION	1,140,786	1,140,786	
	ENLARGEMENT MATERA SUBSTATION	7,594,699	7,186,045	
	ENLARGEMENT CATANZARO SUBSTATION	454,511	454,885	
	TANNA – PARTANNA SUBSTATION OVERHEAD CONNECTION	406,362	614,437	
	CONNECTIONS FOR RENEWABLE ENERGY	9,500,000	10,150,123	
	METORA CONNECTION	5,400,000	9,379,418	
	PRATI DI VIZZE-STEINACH POWER LINE	1,599,576	1,310,005	
	RATIONALISATION IN CITY OF AREZZO	9,483,996	7,046,185	
	REMOVAL OF CONSTRAINTS SOUTH-CENTRAL – NORTH CENTRAL	20,670,511	8,751,459	
	<b>TOTAL Renewable energy</b>		<b>793,337,833</b>	<b>736,794,908</b>
	Energy efficiency	PATERNÒ - PANTANO – PRIOLO POWER LINE	81,273,362	-
<b>TOTAL Energy efficiency</b>		<b>81,273,362</b>	<b>-</b>	
Quality, security and resiliency of electricity transportation Infrastructure	CELANO SUBSTATION	16,505,315	16,486,505	
	RATIONALISATION IN CITY OF MILAN	8,739,572	450,000	
	CAMIN-DOLO LINE	7,178,383	7,120,328	
	BARI NORTH SUBSTATION	1,105,970	1,105,970	
	CATANIA NORTH SUBSTATION	14,843,130	-	
	RATIONALISATION IN CITY OF NAPLES	17,083,243	17,278,878	
	SCHIO SUBSTATION	10,995,262	-	
	RATIONALISATION OF THE SORRENTINO PENINSULA	31,801,840	-	
	RATIONALISATION OF ROME WEST-ROME SOUTH-WEST GRID	14,896,685	-	
	COSTALUNGA PRIMARY SUBSTATION	699,079	955,948	
	BORGONOVO - BARDI – BORGOTARO POWER LINE	3,857,520	3,936,780	
	UPGRADE OF GRID BETWEEN NOVARA AND BIELLA	4,612,704	1,802,191	
	TERESA-BUDDUSÒ SUBSTATION	7,922,026	7,922,026	
	UPGRADE OF TERNI ROME HV GRID	10,734,382	9,854,542	
	WORK ON RAGUSA GRID	3,681,457	3,713,864	
	COLLECTION OF RENEWABLES ABRUZZO/LAZIO	1,880,032	1,891,963	
ROMA SOUTH-CIAMPINO	2,669,049	2,557,581		
<b>TOTAL Quality, security and resiliency of electricity transportation Infrastructure</b>		<b>159,205,648</b>	<b>75,076,576</b>	
<b>GRAND TOTAL</b>		<b>1,033,816,843</b>	<b>811,871,484</b>	

The sums of the individual items and the sub-totals shown in the table may differ due to the process of rounding the data presented.

The above tables show the names of eligible projects, coinciding with wide-ranging, complex interventions made up of numerous individual projects and minor works. Each bond (April 2019, July 2020, June 2021 and February 2022) may have financed different parts of the same project. For this reason, a number of eligible projects, represented by different amounts, have been financed by more than one bond<sup>5</sup>.

Given the nature of the projects financed, each intervention may contribute to achieving a number of environmental benefits. In the above table, the inclusion of an individual project in a category of benefit was based on economic criteria.

<sup>5</sup> For example: reorganisation of Florence metropolitan area, reorganisation of the grid serving the city of Naples and the 150kV Castrocuoco-Maratea power line.

## Impact reporting

This section details the impacts and the benefits associated with the four categories of Eligible Green Project – described on page 562 - financed by each of the four Green Bonds issued by Terna and accounted for in this Report. The percentages indicate the proportion of the benefits that can be associated with the stage of completion of the projects (works that have entered service) at 31 December 2022.

For a better understanding of the data relating environmental impacts, the following should be taken into account:

- the impact of the projects in columns A, B, C and F in the following tables that involve “Connections to renewable energy plants”, “Increased production from renewable sources”, “Reduction in grid losses” and “Reduction in energy not supplied” are measured in MW and MWh. The benefit resulting from completion of these projects may also be measured in terms of greenhouse gas emission savings, amounting to over 8 million tonnes of CO<sub>2</sub> a year . The above data does not derive from ex-post measurement of the impact of the projects carried out, but are the result of grid simulations, conducted using models that permit a comparison of the ex-ante operation of the electricity system and the related environmental impacts with and without the individual projects. The results of the grid simulations are then used in the cost-benefit analysis applied to the main projects included in the Grid Development Plan. Given that there may be several years between the planning of a project and the start-up of work, the cost-benefit analysis for a project may be repeated to take into account new scenarios and the environmental impacts may change over time. Where projects are not subject to cost-benefit analysis, the value of the related benefits is measured using an approach in line with this method. If there are significant changes to the environmental benefits connected with the projects financed by the Green Bonds, these will be noted in future Green Bond Reports;
- the environmental benefits underpinning the selection of eligible projects – estimated using the methodological approach described above - are calculated, based on the most conservative scenario, at the level of each project, which, however, generally consists of a series of works that may require many years to complete. The proceeds from the Green Bonds may be used to finance or refinance a part of the previously planned works that have a part to play in completion of the selected projects in the baskets and, in this sense, in obtaining the environmental benefits associated with the projects.

None of the selected projects is the subject of significant proceedings (administrative or final court judgements) resulting in Terna being ordered to pay fines or to act or not act (e.g., prohibitions), or in its employees being found guilty of a criminal offence (full compliance in environmental and socio-economic matters).

<sup>6</sup> The total value is given by the sum of the contributions of the single bonds divided approximately as follows: 2.3 million tonnes of CO<sub>2</sub> for the issue of 3 April 2019, 3.9 million tonnes of CO<sub>2</sub> for the issue of 17 July 2020, 60 thousand tonnes of CO<sub>2</sub> for the issue of 16 June 2021 and 1.8 million tonnes of CO<sub>2</sub> for the issue of 2 February 2022. The total value has been calculated taking into account the share of total Italian electricity production represented by thermoelectric production in 2022. Allocation for the purposes of the production mix was based on the December 2022 issue of the “Monthly Report on the Electricity System” available on the website at [www.terna.it](http://www.terna.it).

## Issue of 3 April 2019

CATEGORY OF ELIGIBLE GREEN PROJECT	OUTPUT & IMPACT INDICATORS									
	A		B		C		D		E	
	CONNECTIONS TO RENEWABLE ENERGY PLANTS (MW)	% AT 31/12	INCREASED PRODUCTION FROM RENEWABLE SOURCES (MWh)	% AT 31/12	REDUCTION IN GRID LOSSES (MWh)	% AT 31/12	LAYING OF UNDERGROUND CABLES (KM)	% AT 31/12	DEMOLITION OF LINES (KM)	% AT 31/12
Renewable energy	1,118	98	4,764,025	90						
Energy efficiency					264,098	49				
Soil use & biodiversity							18	-	31	-

## Issue of 17 July 2020

CATEGORY OF ELIGIBLE GREEN PROJECT	OUTPUT & IMPACT INDICATORS									
	A		B		C		D		E	
	CONNECTIONS TO RENEWABLE ENERGY PLANTS (MW)	% AT 31/12	INCREASED PRODUCTION FROM RENEWABLE SOURCES (MWh)	% AT 31/12	REDUCTION IN GRID LOSSES (MWh)	% AT 31/12	LAYING OF UNDERGROUND CABLES (KM)	% AT 31/12	DEMOLITION OF LINES (KM)	% AT 31/12
Renewable energy	2,315	99	8,108,782	93						
Energy efficiency					265,094	91				
Soil use & biodiversity							42	67	275	87

## Issue of 16 June 2021

CATEGORY OF ELIGIBLE GREEN PROJECT	OUTPUT & IMPACT INDICATORS					
	A		B		F	
	CONNECTIONS TO RENEWABLE ENERGY PLANTS (MW)	% AT 31/12	INCREASED PRODUCTION FROM RENEWABLE SOURCES (MWh)	% AT 31/12	REDUCTION IN ENERGY NOT SUPPLIED (MWh per year)	% AT 31/12
Renewable energy			10	100	126,141	18
Quality, security and resiliency of electricity transportation Infrastructure						3,573

## Issue of 2 February 2022

CATEGORY OF ELIGIBLE GREEN PROJECT	OUTPUT & IMPACT INDICATORS							
	A		B		C		F	
	CONNECTIONS TO RENEWABLE ENERGY PLANTS (MW)	% AT 31/12	INCREASED PRODUCTION FROM RENEWABLE SOURCES (MWh)	% AT 31/12	REDUCTION IN GRID LOSSES (MWh)	% AT 31/12	REDUCTION IN ENERGY NOT SUPPLIED (MWh per year)	% AT 31/12
Renewable energy	1,670	39	3,841,469	39				
Energy efficiency					13,200	-		
Quality, security and resiliency of electricity transportation Infrastructure							16,060	10

In addition to the benefits achievable through each category provided for in the Green Bond Framework, the above tables also show percentages indicating the share of the benefits linked to the stage of progress on projects at 31 December.

## Examples of Eligible Green Projects

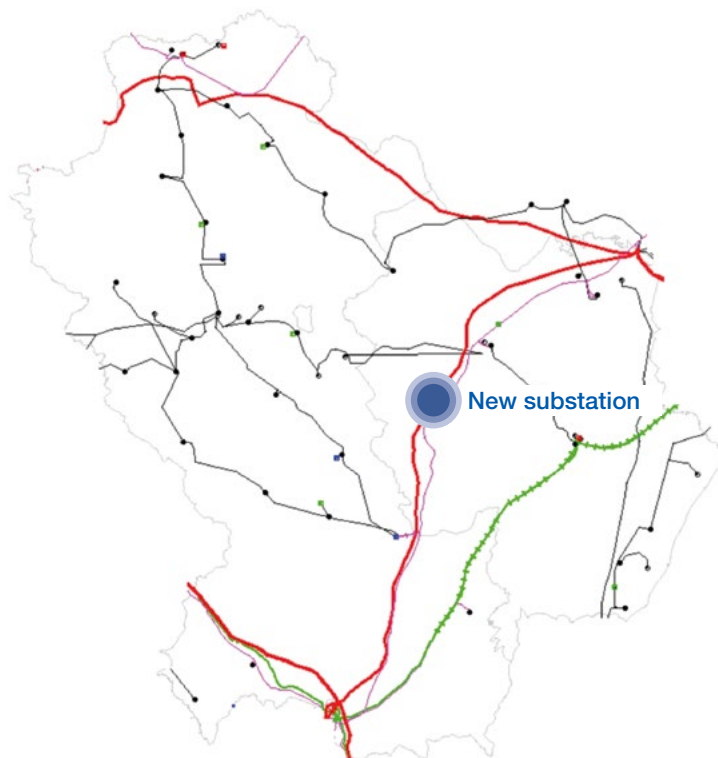
The following pages show key technical and financial data and details of the environmental benefits for four representative projects in the four categories of benefit taken into account.

### Category: Renewable Energy - New Electricity Substation at Garaguso (MT)

The new 380/150 kV Garaguso substation has been built to connect renewable energy plants in the Basilicata region to the HV Matera–Aliano line.

Applications for the connection of renewable energy plants to the NTG (the National Transmission Grid) have been received from 11 plants, making a total of 253 MW. The expected increase in renewable energy integrated into the NTG, linked to plants already connected to the Garigiano substation and future substations, is 668,473 MWh per year.

DESCRIPTION OF INDICATOR	AMOUNT
Total value of the project included in the Bond at 3 April 2019 (planned amount)	6,490,626 €
Proceeds from the green bond allocated to the project at 31 December 2022 (final amount)	7,586,273 €
Future connections of renewable energy plants	253 MW
Increase in renewable energy production	668,473 MWh



New Garaguso substation – Category: “Renewable energy”

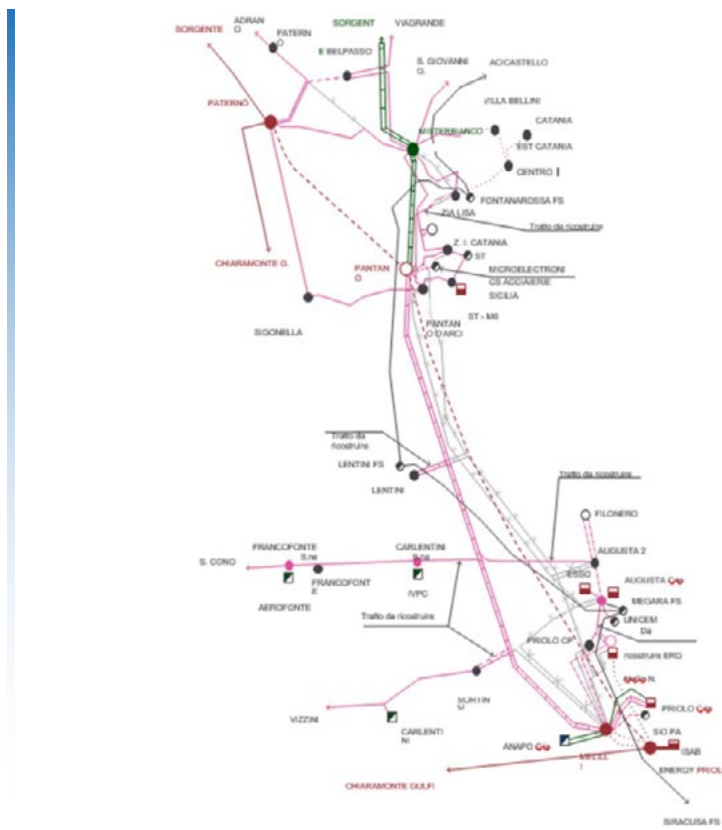
## Category: Energy Efficiency – 380 kV Paternò-Pantano-Priolo Power Line (Sicily)

Construction of the 380 kV Paternò-Pantano-Priolo power line will result in interconnection of the 380 kV grid with the 150 kV grid in south-eastern Sicily. This will help to drive not only production at renewable energy plants in the area, but also an increase in service continuity and voltage stability in eastern Sicily.

The upgrade and enlargement of the Melilli, Priolo and Pantano D’Arci electricity substations is also significant as this will strengthen the grid and improve meshing, resulting in further benefits in terms of grid reliability.

Thanks to the above works, we expect to be able to reduce grid losses by at least 13,200 MWh a year, as shown in the following table.

DESCRIPTION OF INDICATOR	AMOUNT
Total value of the project included in the Bond at 3 April 2019 (planned amount)	66,871,640 €
Proceeds from the green bond allocated to the project at 31 December 2022 (final amount)	21,993,990 €
Reduction in grid losses	13,200 MWh



380kV Paternò-Pantano-Priolo power line – Category: “Energy efficiency”

## Category: Environmentally Sustainable Management of Land Use – Reorganisation of the Grid in the City of Naples

In order to improve the security of the grid in Naples and eliminate operational constraints, the Company has devised a development plan involving the construction of three new 220 kV power lines, reconstruction of the “Main Naples – Caselluccia” line and the demolition of extensive sections of the “Casoria – Naples Levante” line.

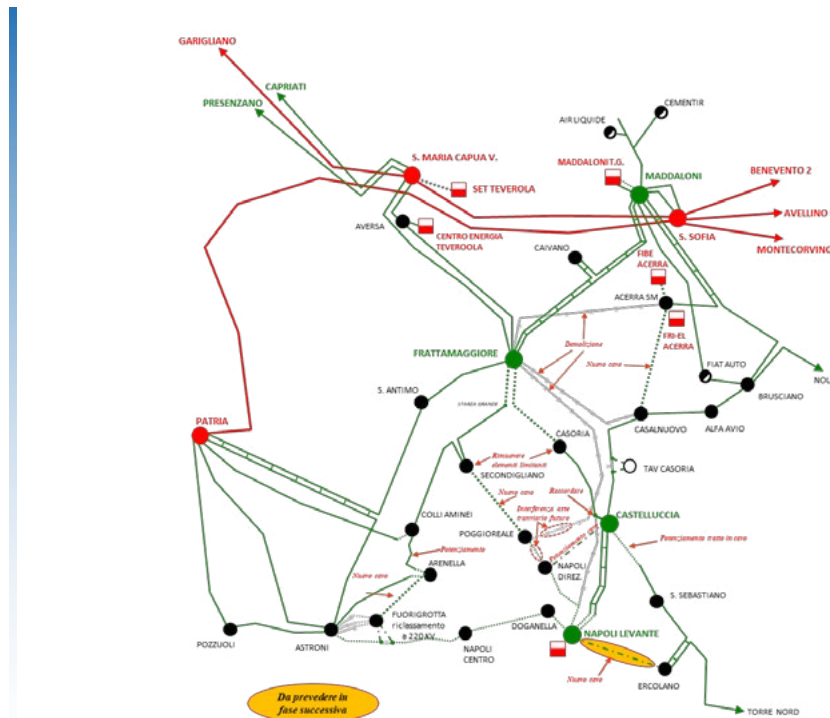
The “Naples Centre” distribution substation is of strategic importance and will be involved in work designed to boost the reliability of the grid.

In addition to laying new cable connections, the project also envisages the decommissioning of a number of 220 kV overhead power lines with environmental and social in terms of the reduced amount of land occupied.

Finally, given the age and reliability of the 60 kV grid in Naples, many of these lines are due to be reorganised or decommissioned, with major benefits for the quality of electricity supply.

The above works will bring benefits in terms of freeing up land, as the following table shows.

DESCRIPTION OF INDICATOR	AMOUNT
Total value of the project included in the Bond at 3 April 2019 (planned amount)	31,995,143 €
Proceeds from the green bond allocated to the project at 31 December 2022 (final amount)	33,868,932 €
Construction of underground cable	18 km
Demolition of lines	31 km



Reorganisation of the grid in the city of Naples – Category: “Environmentally sustainable management of land use”

## Category: Quality, Security and Resilience of Electricity Transmission Infrastructure – 220 kV Schio Substation and Grid upgrade

To boost transformer capacity for the 132 kV grid, ensure security at local level and improve the voltage profile in the load area to the west of Vicenza, the grid is to be subject to a wide-ranging reorganisation, with the construction of a new 220/132 kV transformer substation, to be appropriately linked to the 132 kV grid.

At the same time, the 132 kV grid is to be strengthened by removing constraints and increasing quality and security of service.

The overall project is expected to reduce the quantity of energy not supplied by at least 453 MWh per year, as the following table shows.

DESCRIPTION OF INDICATOR	AMOUNT
Total value of the project included in the Bond at 16 June 2021 (planned amount)	7,654,036 €
Proceeds from the green bond allocated to the project at 31 December 2022 (final amount)	7,608,369 €
Reduction in energy not supplied	453 MWh



220kV Schio substation and grid upgrade – Category: “Quality, security and resilience of electricity transmission infrastructure”

# Independent Auditor's Report



## INDEPENDENT AUDITOR'S REPORT ON THE SECTIONS "ALLOCATION REPORTING" AND "IMPACT REPORTING" OF THE GREEN BOND REPORT

To the Management of  
Terna S.p.A.

We have been engaged to perform a limited assurance engagement on the sections "Allocation reporting" and "Impact reporting" included in the Green Bond Report 2022 (the "Report"). The Report has been prepared by Terna S.p.A. (the "Company") on the basis of the following frameworks (the "Frameworks"): the Framework issued in July 2018 for the Green Bond issued on 3 April 2019 ("GB3"), the Framework issued in July 2020 for the Green Bond issued on 17 July 2020 ("GB 4"), the Framework issued in June 2021 for the Green Bond issued on 16 June 2021 ("GB5") and the Framework issued on January 2022 for the Green Bond issued on 2 February 2022 ("GB 6"). Those Frameworks were defined by the Company in accordance respectively: with the Green Bond Principles issued by ICMA "2018 edition" for the Frameworks of July 2018 and July 2020, and with the Green Bond Principles issued by ICMA "2021 edition" for the Frameworks of June 2021 and January 2022.

### Management's Responsibility for the Report

The Management is responsible for the preparation of the Report in accordance with the Frameworks developed by the Company, that are in accordance to the Green Bond Principles. In particular, the Management is responsible for the preparation of the sections "Allocation reporting" and "Impact reporting". The Management is also responsible for such internal control as they determine is necessary to enable the preparation of the Report that is free from material misstatement, whether due to fraud or error.

### Auditor's Independence and quality control

We have complied with the independence and other ethical requirements of the *Code of Ethics for Professional Accountants* issued by the International Ethics Standards Board for Accountants, which is founded on fundamental principles of integrity, objectivity, professional competence and due care, confidentiality and professional behaviour.

Our firm applies International Standard on Quality Control 1 (ISQC Italia 1) and, accordingly, maintains a comprehensive system of quality control including documented policies and procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements.

## Auditor's responsibility

Our responsibility is to express our conclusion based on the procedures performed about the sections "Allocation reporting" and "Impact reporting". We conducted our work in accordance with the criteria established in the "International Standard on Assurance Engagements ISAE 3000 (Revised) – Assurance Engagements Other than Audits or Reviews of Historical Financial Information" ("ISAE 3000 Revised"), issued by the International Auditing and Assurance Standards Board (IAASB) for limited assurance engagements. The standard requires that we plan and perform the engagement to obtain limited assurance whether the sections "Allocation reporting" and "Impact reporting" are free from material misstatement. Therefore, the procedures performed in a limited assurance engagement are less than those performed in a reasonable assurance engagement in accordance with ISAE 3000 Revised, and, therefore, do not enable us to obtain assurance that we would become aware of all significant matters and events that might be identified in a reasonable assurance engagement.

The procedures performed on the sections "Allocation reporting" and "Impact reporting" are based on our professional judgement and included inquiries, primarily with company personnel responsible for the preparation of the information included in the sections "Allocation reporting" and "Impact reporting", analysis of documents, recalculations and other procedures aimed to obtain evidence as appropriate.

Specifically, we carried out the following main procedures:

- analysis of the second party opinion which addresses the applicability of the Eligible Green Project categories used in the preparation of the use of proceeds data and the environmental benefits;
- analysis of the design and the implementation of the reporting processes and controls regarding the use of proceeds data and the environmental benefits related to the Green Bonds;
- interviews with the Management in order to understand criteria and processes underlying the generation, the detection and the management of relevant qualitative and quantitative information included in the sections "Allocation reporting" and "Impact reporting";
- reconciliation and verification of quantitative data included in the sections "Allocation reporting" and "Impact reporting";
- interviews with relevant staff at corporate and business level responsible for the use of proceeds and the environmental benefits data gathering and consolidation;
- sample analysis performed through the internal and external documentation gathering and analysis, in order to verify the coherence of the information included in the sections "Allocation reporting" and "Impact reporting" to the Green Bond Principles;
- obtaining the representation letter about the accuracy and the completeness of the information included in the Report and of those provided to us.

## Conclusion

Based on the work performed, nothing has come to our attention that causes us to believe that the sections “Allocation reporting” and “Impact reporting” included in the 2022 Green Bond Report of Terna S.p.A., are not prepared, in all material aspects, in accordance with the Frameworks.

DELOITTE & TOUCHE S.p.A.

Signed by  
**Monica Palumbo**  
Partner

Milan, Italy  
April 17, 2023

*This report has been translated into the English language solely for the convenience of international readers.*







All pictures are property of Terna.

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