

TERNA AND THE PUGLIA REGION: 2025-2034 NATIONAL ELECTRICITY GRID DEVELOPMENT PLAN PRESENTED

3.2 billion investments planned over ten years to strengthen the efficiency, resilience, and sustainability of the regional electricity system

Thanks to Efficient Territorial Planning, Terna is paving the way for the shared, integrated planning of energy infrastructure

Rome, 16 July 2025 – The 2025-2034 Electricity Grid Development Plan was the focus of the meeting held today in Bari between Terna and the Region of Puglia, with an emphasis on the strategic interventions planned for the territory. Terna set out the Plan's contents in relation to the region, to the Vice President of the Regional Council and Budget Assessor Raffaele Piemontese, the Environment Assessor Serena Triggiani and to the directors and managers of the Departments of Economic Development and Environment and Landscape, including the allocation of 3.2 billion euro over the coming decade. This puts Puglia in receipt of the second largest volume of investments in the electricity grid of all Italian regions.

Efficient Territorial Planning stands out among the main features discussed: an innovative model for the coordinated and sustainable management of the growing number of connection requests. Its aim is to ensure synergy in the development of generation and/or consumption systems and the related grid works required for connection to the National Transmission Grid, thereby minimising costs for the system and the impacts of infrastructure on the landscape. Alongside this approach, the Plan envisages the implementation of strategic projects aimed at increasing system security, transport capacity, and the integration of renewable sources, thus contributing to reducing network congestion and achieving decarbonization objectives.

The 2025-2034 Electricity Grid Development Plan offers a long-term vision, facing up to the needs of the grid and aiming to develop innovative infrastructure to increase transport capacity between market segments and maximise the exchange of energy. The planned interventions will serve to boost the stability and security of the national electrical system, while simultaneously facilitating the integration of markets thanks to the strengthening of international interconnections.

The electricity grid in the Region of Puglia has a primary transmission system consisting of two 380 kV backbones between the electrical substations of Foggia and Galatina, with other 380 kV

power lines connecting the Puglia electricity grid to those of its neighbouring regions, as well as to the Greek grid via the connection known as Gr.Ita.

Chief among the main projects planned for the region is the Adriatic Backbone which will connect Foggia and Forlì, strengthening the Adriatic corridor for energy transport and enabling a substantial increase in exchange capacity. The power line will use HVDC (High-Voltage Direct Current) technology and will allow better integration of the renewable capacity expected in the coming years, guaranteeing a stronger, more stable and sustainable grid.

As part of plans for interconnection, Terna began the public consultation on Gr.Ita2 in October 2023, the results of which were presented to stakeholders in January 2024. The connection will consist of two submarine cables approximately 240 km long and with a power output of up to 1,000 MW between the landing point in Puglia (Melendugno) and the landing point in Greece (Thesprotia), and two 50 km long direct current overland power lines connecting the Galatina station to the Melendugno landing point.

The work will allow safe management of the entire south of the nation, while facilitating efficient energy procurement by enabling new resources via electricity market coupling and maintaining the exchange of energy between the two countries, even when maintenance is being carried out.

Terna manages over 4,000 km of high-voltage and extra-high-voltage power lines and 61 electrical substations in Puglia.