Terna Energy Solutions

MORE VALUE, TOGETHER.

The fiber optic network for digital transition

OUR INFRASTRUCTURE

The national transmission grid is the ideal vehicle for the development of broadband infrastructure. Our fiber optic network, unique in Italy in terms of scale and architecture, guarantees high performance, reliability, and resilience, ensuring widespread connectivity, including in rural areas, as well as high security standards.

HIGHLIGHTS

46,000 km
overhead lines equipped with fiber optics

410,000 km
available fiber optic pairs

CORE STRENGTHS

High link density and capillarity

Numerous delivery points

Lower failure rate and high security standards

Short and direct routes

We are the key player in the digital transformation of Italy, thanks to a strategic and unique fiber optic network.

OUR SERVICES

We provide highly reliable fiber optic connectivity based on OPGW technology, along with tailored engineering solutions. We support leading telecommunications and power distribution operators by providing fiber optic solutions that ensure performance and reliability, supporting business growth and the challenges of digital transformation.

RESULTS AT A GLANCE

80,000 km
of fiber optic pairs under contract

200 +
housing sites

Indefeasible Right of Use (IRU)

Definitive right to use the fiber optic network, which guarantees stable and secure connectivity in the long term.

Housing Service

Dedicated spaces within electrical substations for the installation of network equipment and optical regeneration systems.

Operation & Maintenance

Continuous monitoring and timely interventions, which guarantees an efficient connection at all times, capable of supporting even the most critical services.

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