



January 2025

Global Electricity TSO Profiles and Benchmarking Report 2025



Prepared by: **Global Transmission Research**

6.4.17 ITALY

- TSO Profiles
 - Terna S.p.A

Key facts

Company	Terna S.p.A
Service area	Nationwide
Ownership	Publicly-listed company (Institutional investors – 53.7%; CDP Reti – 29.85% and Retail – 16.5%) (By geography – Italian shareholders – 51.7%; Overseas institutional investors – 48.3%)
Areas of business	Electricity transmission, system operation, transmission operation, transmission services, telecommunication, renewable energy and energy efficiency
Voltage level	132 kV–380 kV AC; 200 kV–500 kV DC

Growth in transmission network

	2019	2021	2023
Line length (km)	xx	xx	xx
Transformer capacity (MVA)	xx	xx	xx
No. of substations	xx	xx	xx

Voltage-wise break up of line length (%)

Voltage (kV)	Share (%)	
	2019	2023
380 kV	17.19	17.34
220 kV	13.95	13.94
≤ 150 kV	68.86	68.72
Total	100.00	100.00

Operational indicators¹

	2019	2021	2023
Power supplied (TWh)	xx	xx	xx
Average system availability (%)	xx	xx	xx
Regulated energy not supplied (RENS) (MWh)	xx	xx	xx
SAIFI + MAIFI (number)	xx	xx	xx
Average interruption time (AIT) (minutes)	xx	xx	xx

Financial indicators[^]

	2019	2021	2023	2024*
Revenue (EUR million)	xx	xx	xx	xx
Operational cost (EUR million)	xx	xx	xx	xx
Net income (EUR million)	xx	xx	xx	xx
Debt equity ratio	xx	xx	xx	xx
Return on equity (%)	xx	xx	xx	xx
Profit margin (%)	xx	xx	xx	xx

Trend in capex on transmission

	Actual							Forecasted (Planned)
	2017	2018	2019	2020	2021	2022	2023	2024-28
Capex (EUR million)	xx	xx	xx	xx	xx	xx	xx	xx

Planned network expansion²

	2024-36
Total line length (km)	xx
No. of substations	xx
Transformer capacity (MVA)	xx

Note: 1-From 2016, Terna's figures for SAIFI+MAIFI, AIT and energy not supplied includes the grid owned by Terna SpA as well as its subsidiary, Terna Rete Italia Srl.; ^Data is reported as on December 31 for each respective years; *Provisional data as of September 30, 2024; 2-Estimated based on projects tracked by Global Transmission Research and may not be exhaustive.
Source: Terna S.p.A; Global Transmission Research

Key projects

Name	Voltage	Line Length (km)	Year of completion
Sardinia–Corsica–Italy Interconnection (Sa.Co.1.3 project)	xx	xx	xx
Italy–Greece Interconnector	xx	xx	xx
Italy–Switzerland Interconnector	xx	xx	xx
ELMED Project (Tunisia–Italy Interconnector)	xx	xx	xx
Montecorvino–Benevento III Transmission Line	xx	xx	xx
Paternò–Pantano–Priolo Transmission Line	xx	xx	xx
Adriatic HVDC link	xx	xx	xx
Tyrrhenian Link	xx	xx	xx
220 kV Milan–Cortina 2026 Winter Olympics UGC electricity grid	xx	xx	xx
Milan–Montalto HVDC	xx	xx	xx

Key contract awards

Contractor	Year of Award	Contract value (EUR million)	Scope of work
Alstom Italy	xx	xx	xx
Nexans Italia SpA	xx	xx	xx
Prysmian Group	xx	xx	xx
Fugro	xx	xx	xx

Key contacts

Name	Designation
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Source: Terna S.p.A; Global Transmission Research