

How much energy storage capacity does Italy have?

As of November 2024 Italy had 5.1 GW/11.7 GWh of energy storage capacity. This is almost exclusively small-scale residential system,with utility-scale storage systems providing just 864 MW. To help achieve the target for utility-scale storage build-out,the Italian government has implemented the MACSE subsidy scheme as supporting legislation.

What is the largest energy storage system in Italy?

The ESS is the largest in Italy and one of the largest in Europe since it can store two-megawatt hours (2MWh) of renewable energy for release into the grid as needed.

How does Italy's electricity market work?

Zonal Market Dynamics: Italy's electricity market is a zonal market,with seven geographic zones affecting short-term price volatility and influencing BESS investment strategies. MACSE Subsidy Scheme: The new MACSE scheme offers 15-year contracts for energy storage projects and guarantees indexed linked revenue.

What are Italy's energy storage goals?

Energy Storage Goals: To balance the grid with increased renewable energy,Italy targets 11 GW /58 GWh of grid-scale energy storage capacity by 2030,requiring substantial investment and development.

Does Italy have a battery storage market?

The research and analysis conducted for this report were supported by the European Climate Foundation. This report is part of a series that analyses the battery storage market in select European countries. Italy has both a rapidly growing utility-scale market as well as a flourishing customer-sited battery storage market.

Why is Customer-Sited storage so popular in Italy?

Customer-sited storage adoption has been mainly driven by a combination of high electricity prices and generous tax incentives. For utility-scale systems,Italy has established favourable electricity market rules that enable projects to earn revenues from a range of different sources.



Average mobile ESS unit price per 800MW in Italy



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