

European Solar Energy Storage

Behind-the-meter energy storage projects in Italy



Overview

Enel Green Power currently has 26 BESS in Italy: 15 of them are in operation, with a total capacity of about 800 MW, while 11 are under construction, and their completion will bring the total capacity to about 1.8 GW. What is the future of energy storage in Italy?

MP: The future of energy storage in Italy is bright. With investments in technology, regulatory support, and declining costs, BESS will become a key pillar of Italy's transition to a sustainable energy future. Telis Energy is proud to play a role in this journey by originating, developing, and building high-quality BESS projects.

Are battery energy storage systems needed in Italy?

Therefore, battery energy storage systems (BESS) are needed in Italy. The Italian market for BESS is growing rapidly and currently amounts to 2.3 GW but it almost exclusively consists of residential scale systems, associated with small scale solar plants, having a capacity of less than 20 kWh.

Is there a need for energy storage solutions in Italy?

Local industry contacts, as well as U.S. sector firms, have also indicated to Post that there is a need for energy storage solutions in Italy.

How will Italy develop utility-scale electricity storage facilities?

To develop utility-scale electricity storage facilities, the Italian Government set up a scheme that was approved by the European Commission at the end of 2023. Italy will promote investments in utility scale electricity storage to reach at least 70 GWh, and worth over Euro 17 bn, in the next ten years.

How many projects does Metlen have in Italy?

METLEN's extensive portfolio in Italy includes over 180 projects, totaling 3.7 GW, spread across 15 of the country's 20 regions, and continues to invest in cutting-edge technologies and innovative solutions to drive the energy

transition forward.

How does Metlen support Italy's energy transition?

METLEN Energy & Metals continues to reinforce its commitment to supporting Italy's energy transition with the implementation of two new battery energy projects, which secured contracts in the Capacity Market auctions for the 2025/26 period. Specifically, METLEN has secured 15-year contracts for the development of the following projects:

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Enel: partnership with Sosteneo to develop battery and open ...

Sosteneo invests in a wide range of technologies, spanning clean energy production (such as solar PV and wind), clean energy enablers (such as battery storage and networks), as well as industry decarbonization projects.

Nexta and Octopus secure green light for 50 MW storage project in Italy

The Italian Ministry of the Environment and Energy Security (MASE) has approved a 50 MW battery storage project developed by Nexta Capital Partners and Octopus Energy Generation.



Italy Energy Storage

Italy will promote investments in utility scale electricity storage to reach at least 70 GWh, and worth over Euro 17 bn, in the next ten years. The new storage capacity will be acquired through tenders published by Terna, the manager of Italy's high voltage grid.

METLEN expands its portfolio in Italy with strategic investments in

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Battery Storage Systems in Italy , Enel Green Power

Discover the importance of battery storage systems and the role of Enel Green Power in their growth in Italy and for the stability and security of electrical grid.



Energy Storage in Italy 2025: Trends, Challenges, and the Road ...

Italy's energy mix is like a well-crafted risotto--complex but delicious. With 55% of electricity already coming from renewables (hello, hydro and solar!), the country's next challenge is storing excess energy. Enter stage

left: battery storage systems, pumped hydro, and some seriously smart tech.



Powering Italy's Green Future: How Battery Energy Storage ...

MP: The future of energy storage in Italy is bright. With investments in technology, regulatory support, and declining costs, BESS will become a key pillar of Italy's transition to a sustainable energy future.



Italy commercial energy storage system

As Italy's energy mix is increasingly composed of variable renewable energy sources, electricity storage will be needed to integrate power generated by renewables into the national grid and make it available when sun and wind energy are not accessible.

Behind-the-Meter Paper

This dual participation in the energy and balancing markets allows consumers to monetise their energy storage capacity and contribute to a more efficient and resilient grid system.



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