

European Solar Energy Storage

Italian super storage capacity



Overview

Italy's cumulative 692,386 energy storage systems, installed by Sep. 30, 2024, had a total power output of 5,034 MW and storage capacity of 11,388 MWh, according to the National Federation of Electronic and Electrotechnical Companies (Anie).

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In June 2024, Italy has over 650,000 connected storage systems, totaling 4.50 GW in power and 9.62 GWh in capacity. Although the majority of this capacity is linked to photovoltaic installations, stand-alone systems have experienced substantial growth, according data from Terna published by Italia Solare.

The new storage capacity will be acquired through tenders published by Terna, the manager of Italy's high voltage grid. The next tender will be released in 2024.

Italy's new energy storage capacity is expected to reach 2.5GW/6.2GWh in 2024, +25%/61% year-on-year. Policy support has been strengthened and the construction of large reserves will explode.

It is forecast that Italy will deploy more energy storage capacity than any other European nation in 2024, reaching a total of 7.7GWh, which will equate to more than a third of the total storage capacity deployed in Europe this year (see chart below). How many energy storage systems are there in Italy?

As of Sep. 30, 2024, Italy had a cumulative 692,386 energy storage systems, with a total rated power of 5,034 MW and an energy storage capacity of 11,388 MWh. Almost all of the systems - 92% - had a capacity of less than 20 kWh, 99.9% were twinned with solar panels, and 99.1% were home installations.

How many energy storage units did Italy add in 2024?

Anie reported Italy added 168,550 energy storage units from January to the end of September 2024, with a total rated power of 1,591 MW and a capacity of 4,387 MWh.

Why is energy storage important in Italy?

In addition, electricity storage is critical to avoid congestion in the power grid since most of the renewable production originates in Southern Italy but is consumed mostly in the north. Therefore, PNIEC also provides for the installation of new energy storage infrastructure with the aim of reaching 22.5 GW of installed storage capacity by 2030.

Will Italy deploy more storage capacity in 2024?

Italy is forecast to deploy more storage capacity than any other European nation in 2024 – the European Commission has approved €17.7bn of storage funding under ‘state aid’ rules, while the MACSE storage procurement mechanism is expected to be the catalyst for a storage surge in 2025.

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.

Does Italy need electricity storage?

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.

Italian super storage capacity



Marketwatch: Italy 'most vibrant' European storage ...

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The keys to Italy's runaway energy storage demand

Italy's appetite for energy storage seems to be growing by the month. The country is one of just a handful in Europe that includes energy storage in its national energy and climate plan, with a target of 6 GW of capacity by 2030.



Energy storage more than half of new Italian grid capacity for 2025

The results of Italy's main grid capacity market auction for 2025, published by Terna, show that energy storage represented 51.1% of the 174 MW of new capacity assigned.

Energy storage boom in Italy: over 650,000 systems connected ...

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THE ITALIAN CAPACITY MARKET

Participants offer capacity based on their Probabilistic Available Capacity (in Italian: Capacità Disponibile in Probabilità - CDP). The CDP is the capacity of each technology available for the Capacity Market, expressed in MW.



Utility-scale leads as Italy adds 4.4 GWh of energy ...

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Italian Power Storage Applications: A Surge Fueled by Policy and

With regions like Lombardy leading at 1,454 MWh of deployed storage, the country isn't just adopting batteries--it's rewriting Europe's energy playbook. But why should you care?

Italy to hold first energy storage capacity auctions in ...

The energy minister of Italy has signed a decree paving the way for an energy storage capacity auction to kick off in the first half of 2025.



The Italian energy storage market will enter the peak period of ...

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Marketwatch: Italy 'most vibrant' European storage market

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Italy to hold first energy storage capacity auctions in H1 2025

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