

Composition diagram of Italy's power storage system

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.

What data referring to a storage system installed in Italy?

All data referring to the power, capacity, number and type of storage systems installed in Italy.

Why is energy storage important in Italy?

In addition, electricity storage is critical to avoid congestion in the power grids 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.

How many storage systems are there in Italy?

More in detail, 311,189 storage systems were present in Italy in mid-2023, with a total power of 2,329 MW and a maximum capacity of 3,946 MWh. Terna (the high voltage grid operator) also holds systems totaling 60 MW in power and 250 MWh in capacity.

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.

How does Italy's energy system change?

Data is now available through the .Stat Data Explorer, which also allows users to export data in Excel and CSV formats. Italy's energy system has changed notably since 2010 and today the country's energy mix includes more natural gas and renewable energies and less coal and oil.



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