

Prospects for household energy storage in Southern Europe

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How can European policymakers help the battery storage sector?

Recommendations How can European policymakers help the battery storage sector Battery storage systems are essential for strengthening the EU's energy security and competitiveness by enhancing flexibility, providing ancillary services to secure the grid, maximising the use of renewable energy, and effectively dealing with energy price volatility.

Why is energy storage a growing trend in Germany?

Volatile energy prices and the popularity of photovoltaic self-use have driven demand for residential energy storage, which is expected to continue to grow through 2030. In addition, Germany plans to hold its first capacity market auction in 2028 to boost the development of large-scale energy storage projects.

How many residential energy storage systems are there in Germany?

By September 2023, Germany has installed more than 1 million residential energy storage systems and expects to add more than 400,000 units per year in the future. Volatile energy prices and the popularity of photovoltaic self-use have driven demand for residential energy storage, which is expected to continue to grow through 2030.

How will Gy storage affect BESS deployment in Europe?

Energy storage targets continue to drive large-scale BESS deployment in Europe. As the transition to a decarbonised energy system progresses, the design of electricity markets must evolve to effect spinning reserves; grid balancing and stability; black start capability; and microgrid integration.

As battery prices continue to decline and market frameworks become more established, home energy storage will play an increasingly important role in Europe's shift to a decarbonised energy system.

The European Energy Storage Market Monitor (EMMES) updates the analysis of the European energy storage market (including household storage, industrial storage and pre-commercial storage).

Our five-year outlook foresees significant BESS expansion in Europe - a sixfold increase to nearly 120 GWh by 2029, driving total capacity to 400 GWh, yet falls short of energy transition needs.

This regional report provides a ten-year market outlook update (2024 to 2033) for Europe residential energy storage. It covers the current and emerging drivers and barriers, key market trends, and policy recommendations.

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SolarPower Europe says the number of battery energy storage systems (BESS) in residential buildings throughout Europe jumped from 650,000 installations in 2021 to more than 1 million ...

The overall market trajectory is positive, driven by a combination of technological innovation and a robust policy framework aimed at supporting renewable energy and energy storage adoption ...

The report explores trends and forecasts across residential, commercial & industrial (C& I), and utility-scale battery segments, offering deep insights into Europe's energy storage ...

With the increasing adoption of renewable energy sources, such as solar panels, residential energy storage solutions are essential for managing energy consumption and grid stability.

As battery prices continue to decline and market frameworks become more established, home energy storage will play an increasingly ...

It offers near real-time data on the deployment of storage facilities across Europe, including an interactive dashboard and map, and identifies all the technologies, from battery ...

While energy storage is expanding across the continent, not all markets are moving at the same pace. In 2025, several European countries stand out for their rapid uptake of home battery ...

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