
Statistics of power grid energy storage projects

What is the cumulative installed capacity of energy storage projects?

The cumulative installed capacity of new energy storage projects is 21.1GW/44.6GWh, and the power and energy scale have increased by more than 225% year-on-year. Figure 1:

Cumulative installed capacity (MW%) of electric energy storage projects commissioned in China (as of the end of June 2023)

How can energy storage support the global transition to clean electricity?

To support the global transition to clean electricity, funding for development of energy storage projects is required. Pumped hydro, batteries, hydrogen, and thermal storage are a few of the technologies currently in the spotlight.

How big is China's energy storage capacity?

According to incomplete statistics from CNESA DataLink Global Energy Storage Database, by the end of June 2023, the cumulative installed capacity of electrical energy storage projects commissioned in China was 70.2GW, with a year-on-year increase of 44%.

What percentage of energy storage is pumped?

Pumped hydro accounted for less than 70% for the first time, and the cumulative installed capacity of new energy storage (i.e. non-pumped hydro ES) exceeded 20GW.

Technology costs for battery storage continue to drop quickly, largely owing to the rapid scale-up of battery manufacturing for electric ...

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As the world shifts to renewable energy, the importance of battery storage becomes more and more evident with intermittent sources ...

AEMO's "National Electricity Market (NEM) Scorecard" for March 2025 has found the pipeline of new clean energy and energy ...

Global energy storage system (ESS) shipments soared to a record 286 GWh in 2025, with industry heavyweights like Tesla and leading Chinese manufacturers such as BYD ...

Continued expansion of intermittent renewable energy, ESG-focused investments, the growing versatility of storage technologies to provide grid and customer services, and ...

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Utility-scale five-year forecast increases 15% compared to H1 2025 5.3 GW installed in Q3, 31% YOY growth Utility-scale leads with 4.6 GW, 27% YOY growth WASHINGTON, ...

In terms of application, equipping energy storage in renewable electricity generation projects is the main application field for new type energy storage, with a cumulative installed ...

The global energy storage market is poised to hit new heights yet again in 2025. Despite policy changes and uncertainty in the world's two largest markets, the US and China, ...

We explore the data to see where the clean energy transition stands today, from rising investment and job growth to grid needs and critical mineral demand.

The energy storage sector in the United States has been thriving in the past years, with several applications to improve the performance of the electricity grid, from frequency ...

The electricity grid has a critical weakness: almost no storage. Discover what Battery Energy Storage Systems (BESS) are, the ...

total market size = (total local production + imports) - exports) Units: \$ millions Source: Ministry of Energy and Natural Resources, State Institute of Statistics. Türkiye, with an ...

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