



FTMRS SOLAR

Capacity of large energy storage power stations





Overview

How many kilowatts is China's energy storage capacity?

According to China's National Energy Administration (NEA), by the end of 2024, the total installed capacity of new energy storage projects in China reached 73.76 million kilowatts, representing an increase of over 130 percent compared to the end of 2023.

Are pumped-storage power stations a new investment hotspot in China?

Due to the demand for new energy installations, pumped-storage power stations have become a new investment hotspot in China's power industry. According to official data, by the end of 2024, China's installed pumped-storage capacity had exceeded 58 million kilowatts, with the industry showing an overall positive development trend.

How many pumped storage power stations did China approve?

The country approved 110 pumped storage power stations with a total installed capacity of 148.901 gigawatts, which is 2.8 times the capacity approved during the “13th Five-Year Plan” period. China has completed 70.90 % of the total capacity target of 210 gigawatts for key implementation projects during the “14th Five-Year Plan”.

How big is China's Energy Storage Base?

According to official National Energy Administration data from its recent ‘China new energy storage development report 2025,’ the country’s installed base at the end of 2024 totalled 73.8GW/168GWh. The China Energy Storage Alliance (CNESA) trade group said this represented a 130% year-on-year increase and about 40% of the global total.



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China building more pumped-storage power stations to ...

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Apr 7, 2025 · Installed capacity exceeds 62 GW in China as the market shifts toward large, centralized systems with power outputs greater than 100 MW.

Approval and progress analysis of pumped storage power stations ...

Nov 15, 2024 · Pumped storage power stations in Central China are typical for their large capacity, large number of approved pumped storage power stations and rapid approval. This ...

China leads the world in new-type energy storage capacity

Sep 12, 2025 · As China accelerates the shift toward renewable energy and builds a new type of power system, energy storage has become indispensable. As solar and wind are inherently ...

New global battery energy storage systems capacity doubles ...

Apr 25, 2024 · Global battery energy storage systems, or BESS, rose 40 GW in 2023, nearly doubling the total increase in capacity observed in the previous year, according to a special ...

Tesla Signs \$557 Million Deal to Build First Grid-Scale Megapack Energy

Jun 20, 2025 · Tesla's Megapacks are large lithium-ion battery systems designed for utility-scale energy storage. These systems store energy and discharge it to the grid during periods of ...

CHINA'S ACCELERATING GROWTH IN NEW TYPE ...

Jun 13, 2024 · The scope includes two categories: dispatch-controlled new type energy storage and self-used new type energy storage by power stations. The former one refers to the new ...

China Advances Energy Storage Chain with Major New ...

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China targets 180GW of installed BESS capacity by 2027

Sep 17, 2025 · The policy and regulatory roadmap is aimed at pushing China's installed base



of large-scale energy storage - primarily lithium-ion battery energy storage systems (BESS) - to ...

June , Monthly Project Tracker of New Energy Storage , Large ...

Jul 8, 2025 · Core Data: o In June, newly commissioned new energy storage reached 2.33GW/5.63GWh in China; for the first time, the "June 30" grid-connection peak cooled down. ...

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