

China s power storage capacity





Overview

BEIJING, Jan. 24 -- China's new energy storage sector has seen a rapid growth in 2024, with installed capacity surpassing 70 million kilowatts, said an official with the National Energy Administration (NEA).

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China, which already boasts the world's largest energy-storage capacity, is set to nearly double that level by 2027, with an anticipated investment of 250 billion yuan (US\$35 billion), according to Beijing's latest action plan. As outlined in the action plan, China's "new-energy storage system".

BEIJING, Jan. 24 -- China's new energy storage sector has seen a rapid growth in 2024, with installed capacity surpassing 70 million kilowatts, said an official with the National Energy Administration (NEA). Bian Guangqi, deputy director of the NEA's energy saving and technology equipment.

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. China has emerged as a global leader in new.

The cumulative installed capacity of new energy storage in China is expected to exceed 100 gigawatts (GW) by 2025, according to the Energy Storage Industry Research White Paper 2025 released by the Institute of Engineering Thermophysics on 10 April. The capacity is likely to surpass 200GW by 2030.

China has published a national plan to promote large-scale energy storage facilities, encouraging investment and broader participation in the electricity market. The 'Special action plan for large-scale construction of new energy storage (2025-2027)' was published last Friday (12 September). How big is China's energy storage capacity?

The most notable finding: by the end of 2024, China had reached 73.76 GW /



168 GWh in cumulative new energy storage capacity—an increase of more than 130% year-on-year. This figure accounts for over 40% of the global total, consolidating China's leading position in the international NES market.

What is the future of energy storage in China?

The new energy storage market in China has great development potential in the future. The cumulative installed capacity of new energy storage in China is expected to exceed 100 gigawatts (GW) by 2025, according to the Energy Storage Industry Research White Paper 2025 released by the Institute of Engineering Thermophysics on 10 April.

How much energy storage does China have in 2023?

By the end of 2023, China had completed and put into operation a cumulative installed capacity of new type energy storage projects reaching 31.4GW / 66.9GWh, with an average storage duration of 2.1 hours. The newly added installed capacity in 2023 was approximately 22.6GW / 48.7GWh, which is three times that for 2022 (7.3GW / 15.9GWh).

Does Cnesa have a role in China's new energy storage capacity?

CNESA's involvement reflects the report's collaborative yet government-led nature, ensuring data integrity and broad sectoral representation. The most notable finding: by the end of 2024, China had reached 73.76 GW / 168 GWh in cumulative new energy storage capacity—an increase of more than 130% year-on-year.

What energy storage technologies are available in China?

Currently, there are dozens of new energy storage technology routes in China, including advanced compressed air energy storage, flywheel energy storage, lithium iron phosphate batteries, vanadium redox flow batteries, and sodium-ion batteries, each suitable for different scenarios based on their characteristics.

What is China's new energy utilization rate?

The national new energy utilization rate was 96.3% as of December 2024, according to data from the State Grid Energy Research Institute released at the 3rd China Energy Storage Conference and Exhibition in end-March.



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China's new energy storage capacity exceeds 70 million KW

New energy storage refers to energy-storage technologies other than conventional pump storage. An energy-storage system charges when wind power or ...

China leads the world in new-type energy storage capacity

5 ???· 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, ...



China continues to lead the world in wind and solar, ...

What happened in the past year? China added almost twice as much utility-scale solar and wind power capacity in 2023 than in any other ...

[Pumped Storage Project Hits Full Capacity in China](#)

The world's biggest pumped storage plant, the Fengning Power Station, went into full service at the end of the year, supporting 10 gigawatts of



solar- and wind-powered ...



[China targets 180GW of installed BESS capacity by 2027](#)

9 ????· 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 ...



China power statistics

China power statistics - April 2025 In the first fourth months of the year, wind and solar power generation capacity accounted for 89% of new capacity (see Figure 1 below). Solar continued ...



China's energy storage capacity rises to support clean energy shift

BEIJING, July 31 -- China's energy storage capacity is expanding to facilitate the utilization of growing renewable power amid the country's efforts to advance its green energy transition.





CHINA'S ACCELERATING GROWTH IN NEW TYPE

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By the end of 2023, China had completed and put into operation a cumulative installed capacity of new type energy storage projects reaching 31.4GW / 66.9GWh, with an average storage ...



As China's renewable capacity soars, utilisation lags, ...

China's renewable power potential in far-flung provinces is increasingly going unused, official statistics showed on Monday, as the country ...

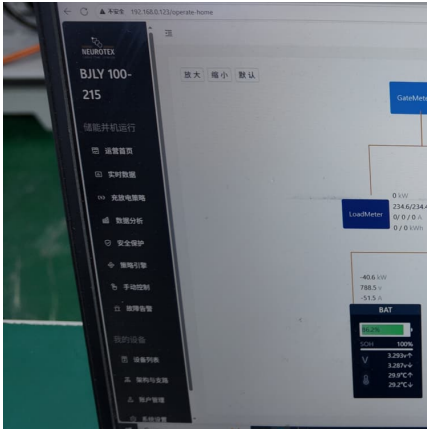
China's New Energy Storage Capacity Grows 130% YoY: NEA

China's energy storage boom aligns with its broader renewable energy ambitions. The Power System Regulation Capacity Optimization Action Plan (2025-2027), ...



Electricity sector in China

[3] In 2023, China's total installed electric generation capacity was 2.92 TW, [4] of which 1.26 TW was renewable, including 376 GW from wind power and 425 GW from solar power. [3] As of ...



China National Energy Administration Released Official Report

The most notable finding: by the end of 2024, China had reached 73.76 GW / 168 GWh in cumulative new energy storage capacity--an increase of more than 130% year-on ...



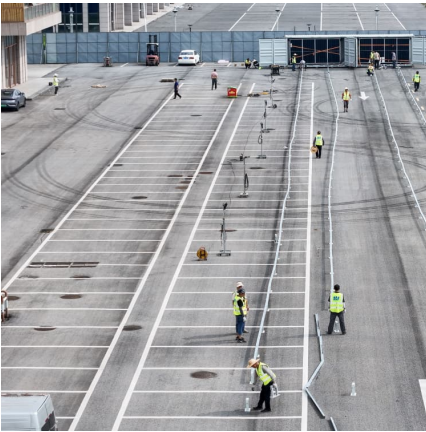
China emerging as energy storage powerhouse

China's power storage capacity is on the cusp of growth, fueled by rapid advances in the renewable energy industry, innovative technologies and ambitious government ...

China aims to nearly double battery storage by 2027 ...

5 ???· China is looking to almost double its so-called new energy storage capacity to 180 gigawatts (GW) by 2027, according to an industry plan ...



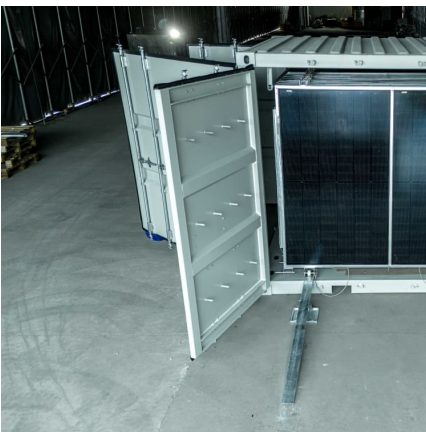


[China Battery Energy Storage System Report 2024](#)

China is committed to steadily developing a renewable-energy-based power system to reinforce the integration of demand- and supply-side management. An augmented ...

[World's largest pumped storage power plant fully ...](#)

The Fengning Pumped Storage Power Station, the world's largest facility of its kind, has commenced full operations with the commissioning of its ...



[Energy storage industry put on fast track in China](#)

The energy storage power plants help improve the utilization rate of wind power, solar and other renewable sources, thus promoting the proportion of new energy consumption. ...

[Energy storage capacity to see robust uptick](#)

A driver charges his new energy vehicle in Chongqing. [SUN KAIFANG/FOR CHINA DAILY]
Fueled by innovative technologies and rapid advances in the renewables sector, China's ...



As China's renewable capacity soars, utilisation lags, data show

China's renewable power potential in far-flung provinces is increasingly going unused, official statistics showed on Monday, as the country rushes to build more long ...



规格型号: DPF--4
输入相数: -48V, 24
生产日期: 2025.04
上海汇珏科

A Study on Reliability and Capacity Credit Evaluation of China Power

Due to the uncertainty energy resources, the distributed renewable energy supply usually leads to the highly unstable reliability of power system. For instance, power system ...



Prospects of carbon capture and storage (CCS) in China's power ...

Results: The most crucial precondition that must be met is a reliable storage capacity assessment based on site-specific geological data. Our projection of different trends ...





Next step in China's energy transition: energy storage deployment

In China, generation-side and grid-side energy storage dominate, making up 97% of newly deployed energy storage capacity in 2023. 2023 was a breakthrough year for ...



China's new energy storage capacity exceeds 70 million KW

China's new energy storage sector has seen a rapid growth in 2024, with installed capacity surpassing 70 million kilowatts, said an official with the National Energy ...

China's installed power generation capacity up 14.6 pct in 2024

China's total installed power generation capacity reached 3.35 billion kilowatts at the end of December last year, up 14.6 percent year on year, data from the National Energy ...



North China's power grid beefed up

With the operation of a large-scale pumped storage power station, the power grid in North China will become more stable and efficient. The station -- akin to a power bank -- ...



[China's battery storage capacity doubles in 2024](#)

China's battery storage capacity doubles in 2024. Installed capacity exceeds 62 GW in China as the market shifts toward large, centralized systems with power outputs greater ...



Installed Capacity Reaches 168 GWh with 130% Growth: Chinese ...

In 2024, "developing new energy storage" was included in the government work report for the first time. The recently enacted Energy Law of the People's Republic of China ...

Pumped Storage Hydropower

The power station has four units with a single unit capacity of 350 MW. The asphalt concrete core rockfill dam has successfully applied in a domestic PSH station in a ...





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