

Accumulative installed capacity of new energy storage





Overview

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Other storage includes compressed air energy storage, flywheel and thermal storage. Hydrogen electrolyzers are not included. Global installed energy storage capacity by scenario, 2023 and 2030 - Chart and data by the International Energy Agency.

In 2024, new energy storage continued its rapid development, with installed capacity surpassing 70 GW. By the end of 2024, the cumulative installed and operational capacity of new energy storage projects nationwide reached 73.76 GW/168 GWh, approximately 20 times that of the end of the 13th.

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.

BEIJING -- 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 department said.

e have increased by more than 225% year-on-year. Figure 1: Cumulative installed capacity (MW%) of electric energy storage projects c ecast from research company BloombergNEF (BNEF). That is 15 times the 27GW/56G lloyed for sub-hourly, hourly and daily balancing. Total installed grid-scale



battery.

In 2023 alone, global new energy storage installed capacity skyrocketed to 45.6 GW, nearly doubling 2022's figures [1] [2]. That's like adding enough battery power to light up 45 million homes overnight. But why should you care?

Because whether you're a solar farmer in Texas or a coffee shop owner. How big is energy storage in 2024?

By the end of 2024, the cumulative installed and operational capacity of new energy storage projects nationwide reached 73.76 GW/168 GWh, approximately 20 times that of the end of the 13th Five-Year Plan and more than 130% higher than at the end of 2023.

Will China's new energy storage sector grow in 2024?

BEIJING -- 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).

How did energy storage grow in the first half of 2024?

Global energy storage installed capacity grew 93.8% YoY in the first half of 2024, coming in at 64.9 GWh. A total of 57.3 GWh came from utility-scale storage (including C&I), up 118% year-on-year. Meanwhile, 7.6 GWh came from the residential sector, up 7.7% year-on-year.

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).

Should energy storage be developed?

Developing energy storage has become a global consensus. It was announced at COP29 in late 2024 that global storage capacity will increase to 1,500 GW by 2030, more than six times the 2022 level. As a result, InfoLink maintains a cautiously optimistic outlook for the medium- to long-term development of energy storage systems.



How big is non-hydro energy storage in 2024?

In the first three quarters of 2024, newly operational non-hydro energy storage installations reached 20.67 GW/50.72 GWh, representing year-on-year growth of 69% in power capacity and 99% in energy capacity.



Accumulative installed capacity of new energy storage



[Summary of Global Energy Storage Market Tracking ...](#)

Figure 2: Cumulative installed capacity of new energy storage projects commissioned in China (as of the end of June 2023) In the first half of ...

[Global energy storage market: review and outlook](#)

Global energy storage market The global energy storage market added 175.4 GWh of installed capacity in 2024, with the three major regional markets--China, the ...



New report: European battery storage grows 15% in 2024, EU energy

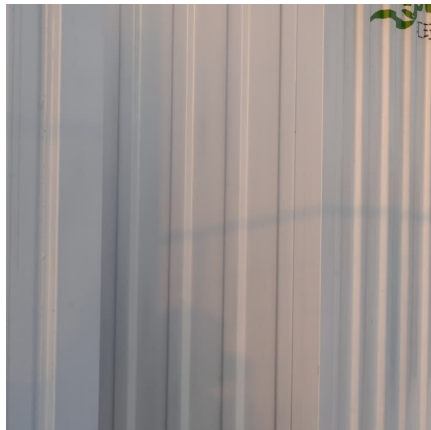
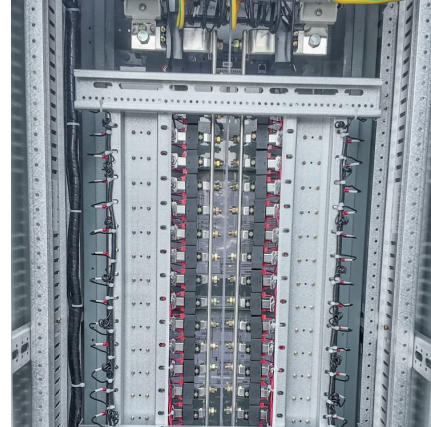
21.9 GWh of battery energy storage systems (BESS) was installed in Europe in 2024, marking the eleventh consecutive year of record breaking installations, and bringing ...

[CHINA'S ACCELERATING GROWTH IN NEW TYPE](#)

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 capacity ratio ...

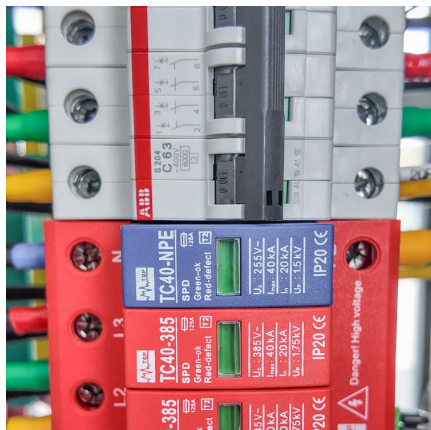
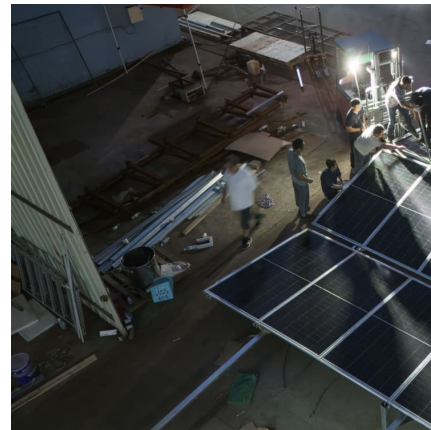


[China's new energy storage capacity exceeds 70m KW](#)

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 ...

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

By the end of 2024, the cumulative installed and operational capacity of new energy storage projects nationwide reached 73.76 GW/168 GWh, approximately 20 times that ...



1. Installed Capacity

Capacity additions among the top five large states: Among the top five large states (in terms of installed power generation capacity of nearly 10GW or more), Rajasthan and Gujarat are the ...



[Analysis on Recent Installed Capacity of Major ...](#)

This benefit is facilitated by the decreasing costs of energy storage systems, primarily those utilizing lithium batteries, in tandem with ...



China's new energy storage capacity exceeds 70 million KW

Geographically, the top five provincial-level regions in China for cumulative installed capacity of new energy storage are Inner Mongolia, Xinjiang, Shandong, Jiangsu, and ...

[CATL shares surge as China's energy storage push ...](#)

2 ???· China aims to install over 180 million kW of new energy storage capacity by 2027, driving about RMB 250 billion (\$35 billion) in direct project ...



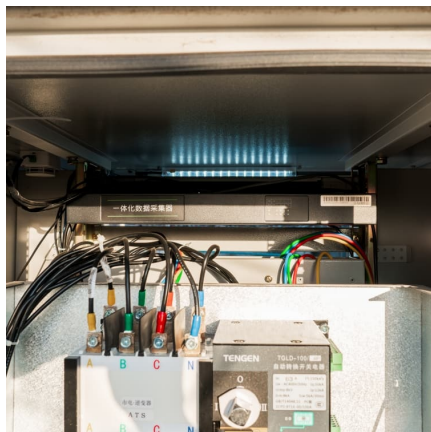
First Batch of National Energy Administration (NEA) Energy Storage

According to statistics from the China Energy Storage Alliance (CNESA), by the first half of 2020, the accumulative installed capacity of energy storage put into operation in ...



Global energy storage

Global additions of energy storage capacity 2010-2024 Annual gross capacity additions of energy storage worldwide in selected years from 2010 to 2023 (in gigawatt-hours)



[New Energy Storage Technologies Empower Energy ...](#)

KPMG China and the Electric Transportation & Energy Storage Association of the China Electricity Council ('CEC') released the New Energy Storage Technologies Empower Energy ...

China National Energy Administration Released Official Report

The China New Energy Storage Development Report 2025 represents a major milestone in the institutionalization of NES planning and governance in China. By quantifying ...





[Global energy storage market: review and outlook](#)

In 2025, the global energy storage market is projected to maintain its growth trajectory, with new installed capacity reaching 221.9 GWh, up 26.5% YoY, as InfoLink forecasts.

Economic Watch: China's new energy storage capacity exceeds ...

BEIJING, Jan. 24 (Xinhua) -- 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 ...

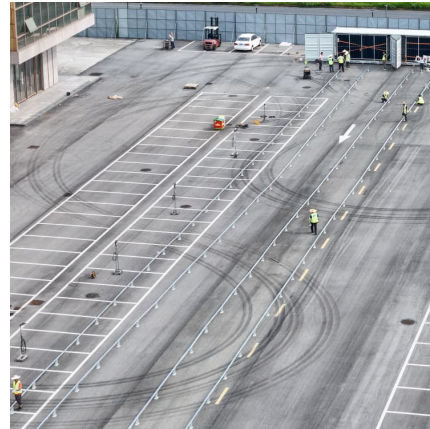


[NEW REPORT: Record Year for U.S. Clean Power ...](#)

o Solar, storage drive historic level of installs o Energy storage rising star, closing in on new natural gas installations o Clean energy pipeline ...

[Global energy storage market: H1 2024 installation ...](#)

Global energy storage installed capacity grew 93.8% YoY in the first half of 2024, coming in at 64.9 GWh. A total of 57.3 GWh came from utility ...



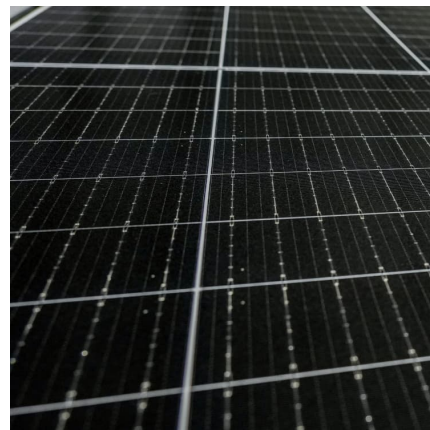
New energy-storage industry powers up China's green development

The CNESA report estimated that China's cumulative installed capacity of new energy storage in 2027 may reach 138.4 gigawatts if the country's provincial-level regions ...



[Global Energy Storage Market to Grow 15-Fold by 2030](#)

More ambitious policies in the US and Europe drive a 13% increase in forecast capacity versus previous estimates New York, October 12, ...



China's energy storage capacity soars to support clean energy ...

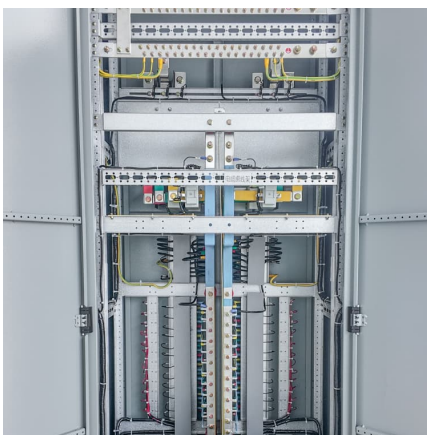
China's installed new-type energy storage capacity had reached 31.39 gigawatts by the end of 2023, the National Energy Administration (NEA) said on Thursday. Last year ...





Energy Storage Grand Challenge Energy Storage Market ...

Foreword As part of the U.S. Department of Energy's (DOE's) Energy Storage Grand Challenge (ESGC), DOE intends to synthesize and disseminate best-available energy storage data, ...

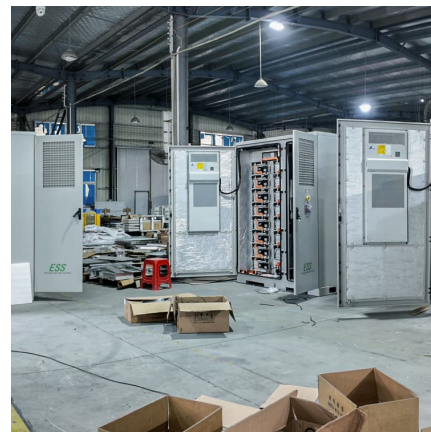


[The entire world is starting to take notice of ESS.](#)

The core of renewable energy! The entire world is starting to take notice of ESS. The market for energy storage system (ESS) is expanding ...

New global battery energy storage systems capacity doubles in ...

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 report published by ...



The installed capacity of energy storage reached a new high in ...

In terms of installed capacity, China's energy storage market has reached a new high in the first half of 24, with a total installed capacity of 14.40GW/35. 39GWh, which has ...



New energy capacity to surpass coal in 2024

China's cumulative installed capacity of new energy power generation is expected to surpass that of coal for the first time this year, amid optimized power supply ...



The installed capacity of energy storage reached a ...

In terms of installed capacity, China's energy storage market has reached a new high in the first half of 24, with a total installed capacity of ...



China's new energy storage capacity exceeds 70 million KW

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Global BESS additions to top 400 GWh annually by 2030 , Energy Storage

The annual deployment of battery energy storage systems (BESS) is set to exceed 400 GWh by 2030, marking a tenfold jump from the current yearly installations, Rystad ...

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