

China power development grid energy storage





Overview

BEIJING, Sept. 12 -- China on Friday unveiled an action plan to promote the development of new forms of energy storage between 2025 and 2027, amid efforts to support green energy transition and ensure the stability of new-type power systems.

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China's energy storage sector has experienced rapid growth over the past two years and is expected to maintain strong momentum going forward, as the country continues to expand its renewable energy capacity, said industry experts. While energy storage in China has surged ahead in the past few.

Announced by the National Development and Reform Commission (NDRC) and the National Energy Administration (NEA), the new plan is expected to drive CNY 250 billion (approximately \$35 billion) in sector investment. China aims to add more than 100 GW of new energy storage (primarily battery storage).

China on Friday unveiled a plan to promote new-type energy storage between 2025 and 2027, amid support for green energy to stabilize the power grid. The country aims to achieve over 180 million kilowatts of installed new-type energy storage capacity by 2027, which is expected to drive approximately.

China's surge in renewables and whole-economy electrification is rapidly reshaping energy choices for the rest of the world, creating the conditions for a decline in global fossil fuel use. Sam Butler-Sloss, Euan Graham This report analyses China's progress towards a clean energy future, explores. 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 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 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.

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).

Why is grid-forming energy storage important?

New energy storage features fast regulation speed and the ability to charge and discharge, providing regulation capabilities in both time and space scales. Through the innovative application of grid-forming energy storage, it is an important solution to the many challenges of large-scale integration of new energy.

What is China's largest power source?

As of February 2025, the installed capacity of wind and solar power totalled 1.45 billion kW, surpassing coal power for the first time to become the largest power source in China. This achievement came nearly six years ahead of the 2030 target of 1.2 billion kW for wind and power generation installed capacity.



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[How AI-driven energy storage powers China's 'double ...](#)

Storage gap fuels market growth Despite rapid growth, the country's energy storage capacity is still "far from sufficient" to match its new ...

['Power up' for China's energy storage sector](#)

Buoyed by the rapid growth in the renewable energy industry and strong policy support, China's development of power storage is on the cusp of a growth spurt which will ...



8: Power Sector Reform

The structure and functioning of China's power sector will play a significant role in the Chinese government's ability to meet its climate goals. Chinese policy makers have highlighted the ...

Report: New energy sector on a roll

The construction of new energy projects in China for grid connections and transmission continues to strengthen, further enhancing the industry's capabilities to optimize large-scale resources, a



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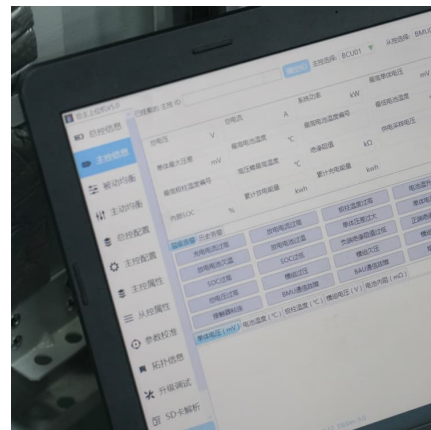
New energy storage to see large-scale development by 2025

China aims to further develop its new energy storage capacity, which is expected to advance from the initial stage of commercialization to large-scale development by 2025, with ...



Grid Energy Storage

Acknowledgements The U.S. Department of Energy (DOE) acknowledges all stakeholders that contributed input used in the development of this report - including but not limited to federal ...



[China Southern Power Grid Energy Storage \(SHA:600995\) ...](#)

Company profile for China Southern Power Grid Energy Storage Co., Ltd. (SHA:600995) with a description, list of executives, contact details and other key facts.





[China's Largest Grid-Forming Energy Storage Station ...](#)

It is a strong measure taken by Ningxia Power to implement the "Four Revolutions and One Cooperation" new strategy for energy security, promote the integration of ...



China is betting big on energy storage as AI drives surge in power

Though China has the world's largest energy storage market, its power grid still struggles to fully absorb electricity generated across regions, particularly from renewables, and ...

[Nation to become a global energy storage powerhouse](#)

The government's long-term goal is to position China as a global manufacturing powerhouse in energy storage, contributing to the efficient ...



[Industry News -- China Energy Storage Alliance](#)

Actively Exploring Energy Storage Application Scenarios In the era when the industry is fully shifting toward marketization, the reform of the electricity spot market is ...



China targets 180 GW of new energy storage by 2027 in ...

5 ???· The plan encourages the development of energy storage facilities that can serve as alternatives to traditional grid infrastructure, as well as broader use of grid-based storage ...



Energy storage capacity to see robust uptick

According to Bian, new energy storage systems are playing a critical role in ensuring grid connection of renewable energy, with the equivalent utilization hours of new ...

China Aims to More Than Double Energy Storage Capacity by 2027

5 ???· China plans to more than double its energy storage capacity in the next two years to further accelerate the deployment of renewables.





China unveils 3-year plan to boost new-type energy storage

5 ???· China on Friday unveiled a plan to promote new-type energy storage between 2025 and 2027, amid support for green energy to stabilize the power grid. The country aims to ...

[China - World Energy Investment 2025 - Analysis](#)

As part of its evolving strategy, China has explicitly encouraged the involvement of private enterprises in the energy sector beyond the fields of export-oriented ...



Tesla agrees to build China's largest grid-scale battery power ...

Tesla has signed its first deal to build a grid-scale battery power plant in China amid a strained trading relationship between Beijing and Washington.

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 ...





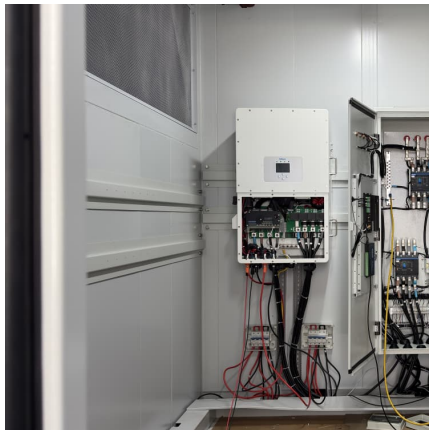
[China's battery storage capacity doubles in 2024](#)

China's electrochemical energy storage industry saw explosive growth in 2024, with total installed capacity more than doubling year-on-year, ...



China National Energy Administration Released Official Report

China's National Energy Administration (NEA) has released the China New Energy Storage Development Report 2025, marking the first official and comprehensive ...

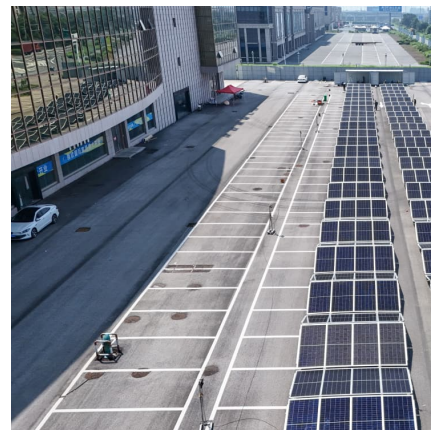


Powering Ahead: 2024 Projections for Growth in the Chinese Energy

Reflecting on the developments in 2023, China witnessed a remarkable uptick in new energy storage installations, reaching an impressive 13.1 gigawatts and 27.1 gigawatt ...

[China's role in scaling up energy storage investments](#)

The large-scale development of energy storage technologies will address China's flexibility challenge in the power grid, enabling the high penetration of renewable sources. This ...



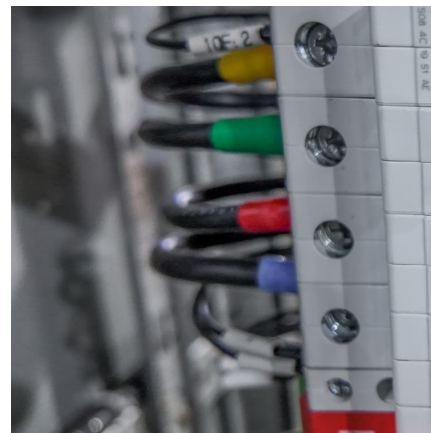


Tesla signs agreement to build its first Chinese grid-side energy

US electric car maker Tesla signed an agreement on Friday for its first grid-side energy storage project in the Chinese mainland, according to a statement the company sent to ...

[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 switches on first large-scale sodium-ion battery](#)

China Southern Power Grid Energy Storage, the energy storage division of China Southern Power Grid, has commissioned a 10 MWh sodium ...

China's Energy Storage System: Innovations and Policy Impact

As China continues to lead the world in renewable energy production, the role of energy storage systems has become increasingly vital. These systems are essential for ...



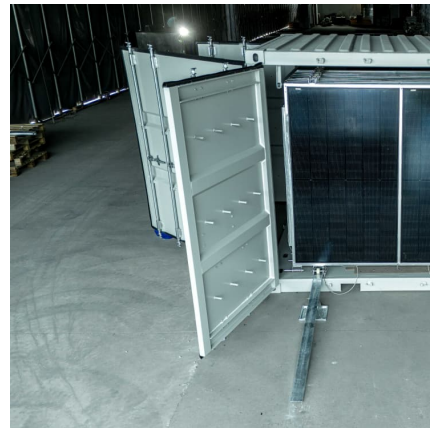
[China emerging as energy storage powerhouse](#)

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 shines in global energy storage](#)

This surge of new energy storage capacity is largely attributable to China's aggressive expansion in renewable energy infrastructure, particularly large-scale wind, and ...



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