

China's energy storage sector

Will China's energy storage sector continue to grow?

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.

What is China's energy storage industry?

The China energy storage industry reached USD 99 billion, USD 155.3 billion and USD 223.3 billion in 2022, 2023 and 2024 respectively. The pumped hydro technology battery uses excess electricity to pump water from lower to upper reservoir. The technology offers longer duration storage.

How has China impacted the energy sector?

In this Q&A, Carbon Brief explores how China has been driving the sector forwards and how it fits into the nation's wider energy transition. China is currently the world's largest market for energy storage, followed by the US and Europe, according to BloombergNEF.

Which energy storage systems dominate China?

In China, generation-side and grid-side energy storage dominate, making up 97% of newly deployed energy storage capacity in 2023. Image: Getty Images/iStockphoto In China, generation-side and grid-side energy storage dominate, making up 97% of newly deployed energy storage capacity in 2023.

How big is China's energy storage capacity?

The China Energy Storage Alliance said in the first half of 2025, newly commissioned novel energy storage projects in China reached 23.03 gigawatts, representing a year-on-year increase of 68 percent in power capacity.

Why is energy storage important in China?

"As China progresses towards carbon-peak and carbon-neutrality goals, new energy is growing rapidly, making energy storage essential for building a modern power system as a key tool for flexible power adjustment amid pressure for power supply in peak times," the NEA said in a statement on Friday.

Clear policy guidance and strong renewables growth make energy storage a rising star in China. Yet, despite rapid growth, crises has arrived much earlier than expected.

Foreword Stepping up efforts to develop new energy storage technologies is critical in driving renewable energy adoption, achieving China's 30/60 carbon goals, and establishing a new ...

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 ...

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China's energy storage sector is rapidly expanding. As a solution to balancing the country's growing energy needs and mass renewable energy production, the industry has ...

The Summary of China's Energy and Power Sector Statistics is one of the research results of the China Energy Transition (CET) programme. It is published annually as a ...

The China energy storage market was estimated at USD 223.3 billion in 2024 and is expected to reach USD 2.45 trillion by 2034, growing at a CAGR of 25.4% from 2025 to 2034, driven by the ...

Non-fossil energy consumption accounted for more than crude oil for the first time. In 2024, China's GDP growth rate reached 5.0%, an increase of 0.2 percentage points year-on-year, ...

Experts said developing energy storage is an important step in China's transition from fossil fuels to a renewable energy mix, while mitigating the impact of new energy's ...

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 energy-storage sector is set for a challenging year with reduced capital spending, price competition, and a need to explore non-US markets.

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

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 ...

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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 generate multi-billion ...

China's energy storage sector has entered a phase of scaled growth and routine application in recent years, supported by the steady advancement of new energy and ...

China's electric carmaker BYD and electric vehicle battery maker Contemporary Amperex Technology Co., Ltd. also announced to up their investment ante in the energy ...

Carbon Brief explores how China has been driving the energy storage sector forwards and how it fits into the

nation's wider energy transition.

Just a few years ago, China's energy-storage industry was riding high on a sugar rush of subsidies, soaring demand, and sky-is-the-limit optimism. But this is 2025, and ...

This surge brought China's new-type energy storage capacity to over 30 GW in 2023 - achieving its 2025 target two years early. By the end of 2024, total capacity exceeded 78 GW, with ...

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On this basis, the Summary describes the results of emerging technologies and market-based means such as new-type energy storage, new energy vehicles (NEVs) and power markets that ...

According to the National Energy Administration, China's energy storage sector, hydropower storage excluded, will enter the stage of large-scale development in 2025.

In 2022, the 14th Five-Year Plan for New Energy Storage Development set out the clear requirements and key tasks of China's new energy storage industry, focusing on ...

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