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China energy storage industry data



Overview

China's National Energy Administration (NEA) has released the China New Energy Storage Development Report 2025, marking the first official and comprehensive government report dedicated to the country's rapidly advancing new energy storage (NES) sector. The report, jointly prepared by the NEA's.

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According to CNESA DataLink's Global Energy Storage Database, as of the end of September 2024, the cumulative installed capacity of operational energy storage projects in China reached 111.49 GW. This includes pumped hydro storage, molten salt thermal storage, and other non-hydro storage.

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 country's aggressive push for renewable energy and carbon neutrality. With a growing share of wind and solar.

The government of China is planning to increase the country's energy storage capacity by 2030 to achieve the government plan for net-zero emissions by 2060. According to the China Energy Storage Alliance, the government plans to increase the battery storage system by more than 100 GW and pumped.

it in rechargeable batteries for use at a later date. When energy is needed, it is released from the BESS to power demand to lessen any he integration of demand- and supply-side management. An augmented focus on energy storage development will substantially lower the curtailment rate of renewable.

Chen Haisheng, Chairman of the China Energy Storage Alliance and

Director/Researcher at the Institute of Engineering Thermophysics, Chinese Academy of Sciences, provided a comprehensive summary of the development of new energy storage industries in 2024 and offered insights into the trends for.

Wood Mackenzie's China utility-scale energy storage outlook is a 30+ page report containing charts, tables and graphs providing an in-depth analysis of the Chinese utility-scale energy storage market. The report covers the key market trends and studies the key drivers and barriers for the. How big is China's energy storage capacity?

Cumulative installed capacity of new energy storage reached 78.32 GW, surpassing pumped hydro storage for the first time. According to incomplete statistics from the CNESA DataLink Global Energy Storage Database, by the end of 2024, China's cumulative installed capacity of power storage exceeded 100 GW, reaching 137.9 GW.

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.

What is the energy storage capacity in China in 2021?

In 2021, The energy storage capacity in China was 46.1 GW; the pumped hydro segment is dominating the energy storage market in China with a total installed capacity of 39.8 GW, which is around 83% of total energy storage capacity.

Will China's energy storage capacity grow in a new era?

Source: Bloomberg NEF, Cushman & Wakefield Research Along with this advantage and others, including a strong general energy storage infrastructure policy framework, ahead and heading into a new era for new energy, it is expected that China's energy storage capacity and its BESS capacity in particular will grow a.

Will China be a leader in energy storage capacity by 2034?

By 2034, China is projected to be a global leader in energy storage capacity, with electrochemical batteries, especially lithium-ion, expected to dominate

the market. Energy storage systems are widely used as EV battery storage systems such as lithium ion batteries.

How big will energy storage batteries be in China in 2024?

Figure 3: Ranking of Global Market Shipment Volume of Energy Storage Batteries by Chinese Companies in 2024, Units: GWh CNESA predicts that in 2025, new energy storage additions will be between 40.8 GW and 51.9 GW, averaging around 45 GW.

China energy storage industry data



2020 Energy Storage Industry Summary: A New ...

The 14th Five-year Plan is an important new window for the development of the energy storage industry, in which energy storage will become a key supporting technology for renewable energy and China's ...

China Energy Storage Market Size, Growth ...

The China energy storage market size exceeded USD 223.3 billion in 2024 and is expected to register at a CAGR of 25.4% from 2025 to 2034, driven by the country's aggressive push for renewable energy and carbon neutrality.



[Energy-Storage.News](#)

Global energy storage technology and energy software services provider Fluence and ACE Engineering have opened a new automated battery storage manufacturing facility in Vietnam's Bac Giang Province.

Frontiers , The Development of Energy Storage in ...

With the challenges posed by the intermittent nature of renewable energy, energy storage technology is the key to effectively utilize renewable energy. China's energy storage

industry has experienced rapid ...



China's energy storage industry: Develop status, existing problems ...

For this reason, this paper will concentrate on China's energy storage industry. First, it summarizes the developing status of energy storage industry in China. Then, this paper ...

Our Work -- China Energy Storage Alliance

Our Work We believe that energy storage is the key to the transition to a green future. As China's first energy storage industry association, we are proud to: Produce quality research on the ...



China Energy Storage Battery Industry Report Probes the XX ...

The size of the China Energy Storage Battery Industry market was valued at USD 2037.9 Million in 2023 and is projected to reach USD 6100 Million by 2032, with an ...

China Energy Storage Market Size, Growth ...

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 country's aggressive push for ...



China: 137.9GW of energy storage installed in 2024

The China Energy Storage Alliance (CNESA) of energy industry players has released its Energy Storage data for 2024. Total energy storage installed was 137.9GW, which ...

THE CHINA BATTERY ENERGY STORAGE SYSTEM ...

Ahead and heading into a new era for new energy, it is expected that China's energy storage capacity and its BESS capacity in particular will grow at a CAGR rate of 44% between 2023 ...



Chinese battery storage capacity likely to see ...

China's battery storage capacity is likely to see reduced levels of growth in 2024, according to a newly released whitepaper. The Energy Storage Industry Research White Paper, produced by non-profit ...

Analysis: Clean energy was top driver of China's ...

Clean energy contributed a record 11.4tn yuan (\$1.6tn) to China's economy in 2023, accounting for all of the growth in investment and a larger share of economic growth than any other sector. The new sector ...



China National Energy Administration Released Official Report

The report draws in part on industry data, including contributions from the China Energy Storage Alliance (CNESA), which provided relevant data sets and research inputs to ...

China utility-scale energy storage outlook 2024

The report covers the key market trends and studies the key drivers and barriers for the grid-scale energy storage market in China, focusing on national and regional ...



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 clean energy manufacturing into areas of more strategic ...

Global Energy Storage Market Outlook

Energy storage capacity additions will have another record year in 2023 as policy and market fundamentals continue to propel the industry
Data compiled March 2023. Source: S& P Global

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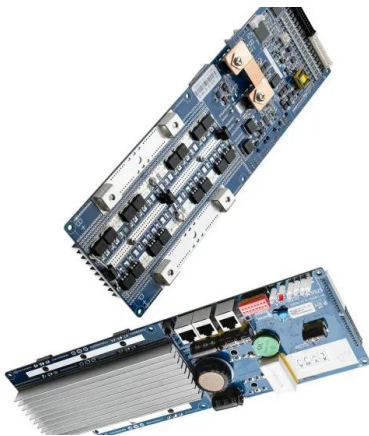


China to boost new-energy storage manufacturing ...

China has unveiled an action plan to boost full-chain development of the new-energy storage manufacturing industry, aiming to expand leading enterprises by 2027, enhance innovation and

Summary of China's energy and power sector statistics in 2024

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 ...



CNESA's 2024 Energy Storage Data Released

Chen Haisheng, Chairman of the China Energy Storage Alliance and Director/Researcher at the Institute of Engineering Thermophysics, Chinese Academy of ...

2019 China Energy Storage Industry Roundup

New operational electrochemical energy storage capacity totaled 519.6 MW/855.0 MWh (note: final data to be released in the CNESA 2020 Energy Storage Industry White Paper). In 2019, overall growth in the ...



Our Lifepo4 batteries can beconnected in parallels and in series for larger capacity and voltage.

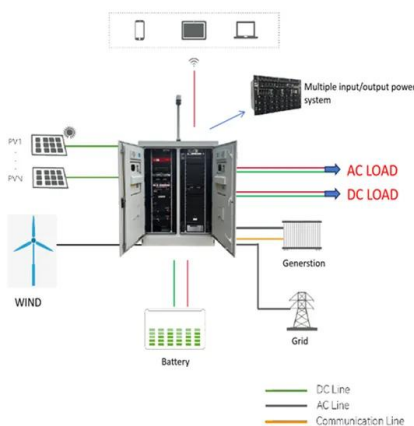


China's battery storage capacity doubles in 2024

China's electrochemical energy storage industry saw explosive growth in 2024, with total installed capacity more than doubling year-on-year, according to a report released by the China Electricity ...

China's Energy Storage Market General Review and Expectation ...

In the first three quarters of 2023, the capacity of China's new energy storage projects in operation reached 12.3 GW, while the capacity of new planned and under-construction energy storage ...

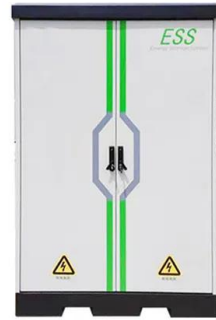


China's new energy storage capacity exceeds 70 million KW

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 Energy Storage Market

China's energy storage market is surging, fueled by ambitious environmental targets and a push for a greater renewable energy share. This growth is driven by investments in clean energy, supportive ...



Global energy storage

Global energy storage capacity outlook 2024, by country or state Leading countries or states ranked by energy storage capacity target worldwide in 2024 (in gigawatts)

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 focus on energy storage ...



Energy-Storage.News

Global energy storage technology and energy software services provider Fluence and ACE Engineering have opened a new automated battery storage manufacturing facility in Vietnam's ...

China Energy Storage Market Size, Growth, ...

In light of energy security concerns, especially after fluctuations in energy prices globally, China is focusing on enhancing its energy security, driving the growth of the China Energy Storage Market.



48V 100Ah

China new energy storage capacity tops 100 GW, surpasses hydro

China's installed energy storage capacity reached 164 GW by June 2025, according to the China Energy Storage Alliance (CNESA). More than 100 GW came from new 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, according to a report released by ...



CNESA's 2024 Energy Storage Data Released

In 2024, China added 43.7 GW/109.8 GWh of new energy storage installations, representing year-on-year increases of +103% and +136%. Xinjiang and Inner Mongolia ...

THE CHINA BATTERY ENERGY STORAGE SYSTEM ...

In terms of BESS infrastructure and its development timeline, China's BESS market really saw take off only recently, in 2022, when according to the National Energy Administration (China) ...



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