



ŁOTWA SYSTEM

Large-scale investment in energy storage power station construction





Overview

Are pumped-storage power stations a new investment hotspot in China?

Due to the demand for new energy installations, pumped-storage power stations have become a new investment hotspot in China's power industry. According to official data, by the end of 2024, China's installed pumped-storage capacity had exceeded 58 million kilowatts, with the industry showing an overall positive development trend.

Why do we need a pumped-storage power station?

To cope with the instability of wind and solar power output, a pumped-storage power station is needed to regulate and ensure the safe operation of the power grid, as well as reducing the waste of unused renewable energy.

How big is China's Energy Storage Base?

According to official National Energy Administration data from its recent 'China new energy storage development report 2025,' the country's installed base at the end of 2024 totalled 73.8GW/168GWh. The China Energy Storage Alliance (CNESA) trade group said this represented a 130% year-on-year increase and about 40% of the global total.

What is the 'Special Action Plan' for new energy storage?

The 'Special action plan for large-scale construction of new energy storage (2025-2027)' was published last Friday (12 September), formulated jointly by the country's National Development and Reform Commission and National Energy Administration (NEA).



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200MW energy storage power station investment scale

The world's first large-scale semi-solid state energy storage project was successfully connected to the grid in China on June 6. The 100 MW/200 MWh installation is the 200MW project on ...

China's largest standalone battery storage project powers up

4 days ago · A 500 MW / 2,000 MWh standalone BESS in Tongliao, Inner Mongolia, has begun commercial operation following a five-month construction period, reflecting China's ...

China targets 180GW of installed BESS capacity by 2027

Sep 17, 2025 · Solar inverter and energy storage system integrator-manufacturer Sungrow at the SNEC 2025 trade show in Shanghai, China, earlier this year. Image: Sungrow. China has ...

Multiple large-scale energy storage projects have started construction

The bidder for this project is Shenyuan (Xinjiang) Investment Co., Ltd., which will construct a large-scale solid heat storage and shared energy storage power station located in Shawan ...

Large-scale construction begins for largest ...

5 days ago · The largest pumped storage power station in terms of capacity in East China has entered the full-scale construction phase and is ...

Study on the investment and construction models and value ...

Aug 1, 2025 · To address the issue, this paper proposes investment and construction models for shared energy-storage that aligns with the present stage of energy storage development.

Australia: The State of Battery Energy Storage in the NEM

Grid-scale battery energy storage capacity in the NEM is set to hit 2 GW milestone In the three years following the construction of Hornsdale Power Reserve, grid-scale battery capacity in ...

China building more pumped-storage power stations to ...

Mar 22, 2025 · Due to the demand for new energy installations, pumped-storage power stations have become a new investment hotspot in China's power industry. According to official data, ...

Large-scale construction begins for largest pumped storage power station

5 days ago · The largest pumped storage power station in terms of capacity in East China has entered the full-scale construction phase and is scheduled to begin generating power before ...

China emerging as energy storage powerhouse

May 22, 2024 · With a total investment of 1.496 billion yuan, the 300 MW power station is



believed to be the largest compressed air energy storage ...

Zhuozhou large-scale independent energy storage power station ...

Nov 21, 2025 · [Zhuozhou large-scale independent energy storage power station starts construction] Recently, the Zhuozhou 200MW/800MWh independent energy storage power ...

Comprehensive review of energy storage systems ...

Jul 1, 2024 · The applications of energy storage systems have been reviewed in the last section of this paper including general applications, energy utility applications, renewable energy ...

China's largest single station-type electrochemical energy storage

Dec 22, 2022 · On November 16, Fujian GW-level Ningde Xiapu Energy Storage Power Station (Phase I) of State Grid Times successfully transmitted power. The project is mainly invested ...

Construction Begins on China's First Grid ...

Jul 2, 2023 · Once completed, this project will become the world's largest flywheel energy storage power station, propelling China's flywheel energy ...

Pumped-storage renovation for grid-scale, ...

Jan 20, 2025 · Grid-scale, long-duration energy storage has been widely recognized as an important means to address the intermittency of wind ...

China targets 180GW of installed BESS ...

Sep 17, 2025 · Solar inverter and energy storage system integrator-manufacturer Sungrow at the SNEC 2025 trade show in Shanghai, China, ...

China's three-year action plan for new energy storage construction ...

The National Development and Reform Commission and the National Energy Administration issued the 'Special Action Plan for Large-Scale Construction of New Energy Storage ...

China powers up nation's largest standalone battery storage ...

3 days ago · A 500 MW/2,000 MWh lithium iron phosphate battery energy storage system has entered commercial operation in Tongliao, Inner Mongolia, after five months of construction, ...

400MW/1.6GWh! Another Large-Scale Energy Storage Power Station

Jul 10, 2025 · On July 6th, a grand event in the field of green energy took place in Fanzhi County, Xinzhou City, Shanxi Province -- the commencement of construction for the 400 MW/1600 ...

China's role in scaling up energy storage investments

Jun 1, 2023 · 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 ...

China's Largest Grid-Side Lead-Carbon Energy Storage Power Station ...



Nov 30, 2025 · The Jiyang Green Storage 200 MW / 400 MWh shared energy storage project was invested and constructed by Ningxia Jiyang Green Storage Integrated Energy Services Co., ...

World's largest pumped storage power plant ...

Jan 9, 2025 · The Fengning Pumped Storage Power Station, the world's largest facility of its kind, has commenced full operations with the ...

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