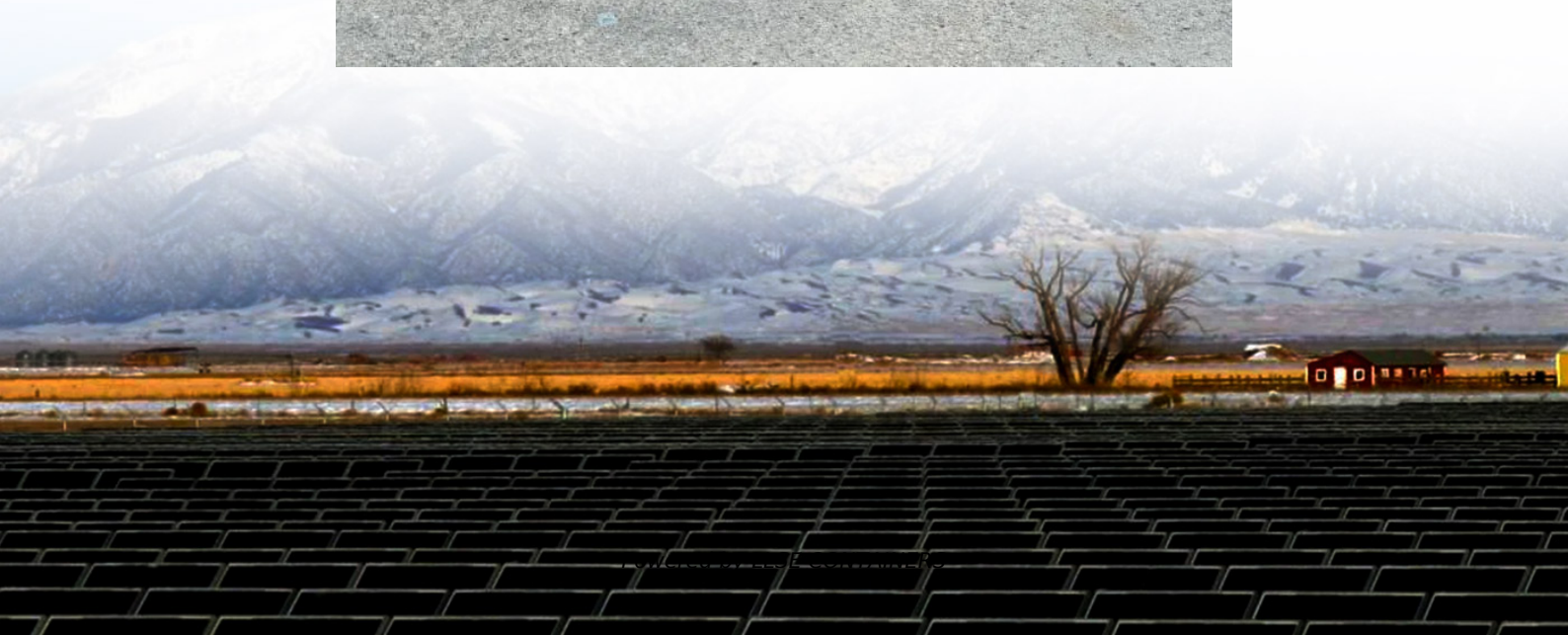


Speed up the construction of energy storage power stations





Overview

Can pumped storage stations be used as energy storage support?

With China continuously scaling up the construction of integrated clean energy bases like “hydro-wind-storage” and new energy bases such as “Shagohuang”, pumped storage stations, especially variable-speed ones, will be more widely applied as energy storage support in regional grids (China Power, 2023).

How pumped storage energy is developing in China?

Against the backdrop of the “dual-carbon” goals and the accelerated construction of a new energy system, pumped storage energy, accompanied by the demand for a large amount of new energy, has experienced vigorous development in China. Currently, China has built pumped storage installed capacity of 50 million kilowatts, ranking first in the world.

Why is pumped storage hydropower station important?

The pumped storage hydropower station has always played an important role in promoting economic development and rural revitalization. As a clean energy base, it is an important power support and energy infrastructure that meets the direction of national investment.

How long does it take to build a pumped storage power station?

The construction period of PSPSs is long, with large investments required. Typically, it takes 5–8 years to construct a 1.2 million kilowatt pumped storage power station, with investments ranging from tens of billions to hundreds of billions (Chen and Luo, 2020, Zhang et al., 2020, Zhang et al., 2019).



Speed up the construction of energy storage power stations



[China building more pumped-storage power stations to ...](#)

Mar 22, 2025 · China's pumped-storage installed capacity remains the largest in the world, but industry experts said relying solely on the State Grid for construction will no longer be sufficient ...

[China's Pumped Storage Breakthrough Optimizes Renewable ...](#)

Apr 7, 2025 · In the rapidly evolving landscape of renewable energy, one technology stands out as a linchpin for integrating solar and wind power into the grid: pumped storage. As China ...



[Three ministries and commissions issue a joint statement!](#)

Jun 19, 2025 · ? Summary ?Joint document issued by three ministries! Exploring the construction of energy storage power stations with various technological routes such as flow ...

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

Jun 13, 2024 · The scope includes two categories: dispatch-controlled new type energy storage and self-used new type energy storage by power stations. The former one refers to the new ...



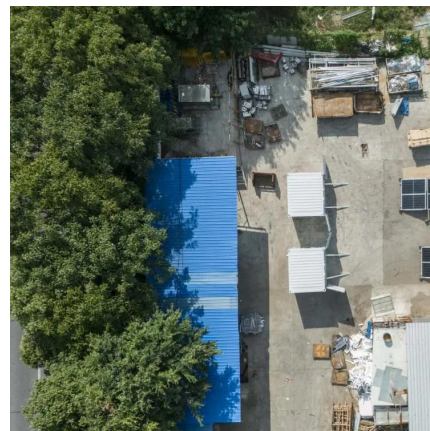
[Legal Issues on the Construction of Energy Storage Projects ...](#)

To address these issues, various rapid energy storage methods have emerged as ancillary services, enabling the storage of energy, relieving the pressure on integrating renewable ...



[Variable speed pumped storage units in China: Current ...](#)

Jun 1, 2025 · With China continuously scaling up the construction of integrated clean energy bases like "hydro-wind-storage" and new energy bases such as "Shagohuang", pumped ...



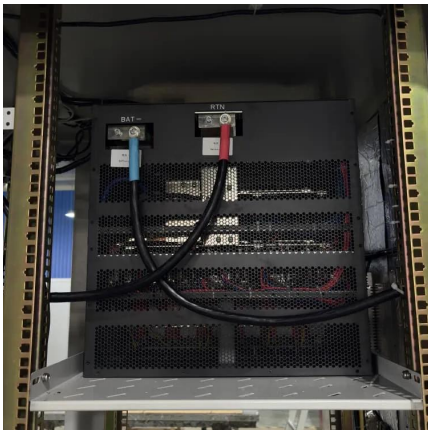
[China Accelerates Development of Pumped-Storage Power Stations ...](#)

Apr 6, 2025 · The demand for new energy infrastructure has catalyzed a surge in investments in pumped-storage power stations within the nation. Official reports indicate that by the close of ...



Technical Challenges and Environmental Governance in the Construction

Oct 16, 2024 · Comprehensive research results show that pumped storage power stations occupy an important position and have great potential in China's new energy construction.



China steps up new energy storage construction

Dec 3, 2025 · New energy storage, or energy storage using new technologies, such as lithium-ion batteries, liquid flow batteries, compressed air and mechanical energy, is an important ...

Entire process of developing an energy storage power ...

Energy storage power stations, acting as "power banks" in the power system, play a crucial role in regulating power supply and demand balance, improving power system flexibility, and ...



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