



MODERNIZATION SOLAR

# Large-scale power station energy storage





## Overview

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What is the largest grid-forming energy storage station in China?

This marks the completion and operation of the largest grid-forming energy storage station in China. The photo shows the energy storage station supporting the Ningdong Composite Photovoltaic Base Project. This energy storage station is one of the first batch of projects supporting the 100 GW large-scale wind and photovoltaic bases nationwide.

How big is the energy storage station?

The energy storage station covers an area of about 50 mu (33,333 square meters) and has more than 150 battery compartments and boost-converter compartments with a maximum instantaneous output capacity of 200 MW.

What is the first large-scale sodium-ion battery energy storage station in China?

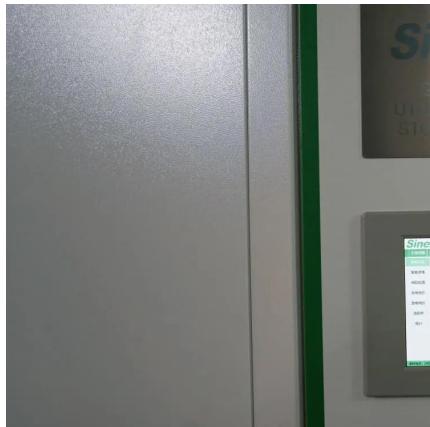
In May 2024, Southern Grid commissioned a 10 MWh sodium-ion battery energy storage station in Nanning, Guangxi province, the first large-scale sodium-ion battery energy storage station in China. The energy storage station can store 100,000 kWh of electricity on a single charge, which can meet the needs of around 12,000 households for a day.

How many kWh can a solar energy storage station store?

The energy storage station uses the latest high-capacity sodium-ion batteries with a top response speed six times faster than other existing sodium-ion batteries. It can store 800,000 kWh of electricity per day, which can be used by 270,000 households.



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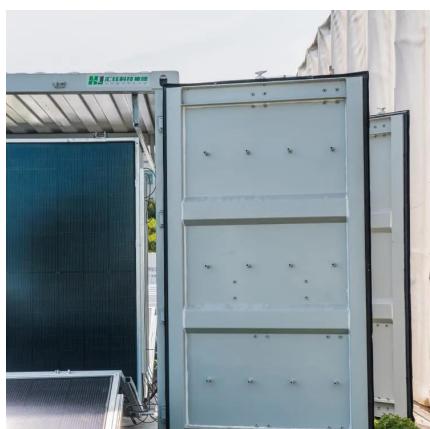


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## **China Launches First Large-Scale Lithium-Ion Battery Energy Storage**

On October 10, 2025, China's first large-scale lithium-ion battery energy storage power station commenced operations in Guangxi Province. This

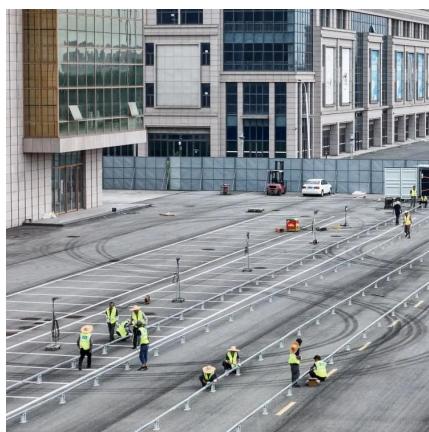


project, which is located in the Nanning ...



## June , Monthly Project Tracker of New Energy Storage , Large-Scale

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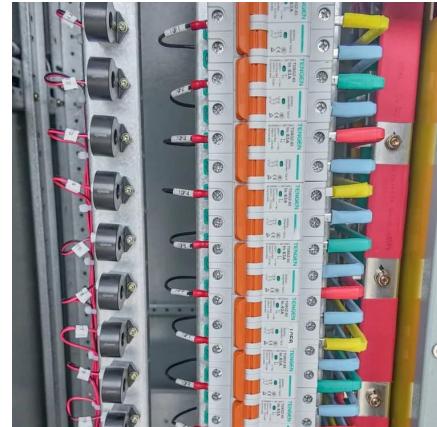
## Large-Scale Underground Storage of Renewable Energy Coupled with Power

Oct 1, 2023 · At that time, wind and solar power will generate approximately  $2.6 \times 10^{13}$  kW·h (approximately 25% will originate from energy storage coupled with power-to-X, of which more ...



## New power system , China's first large-scale lithium-sodium ...

On May 25, China's first large-scale lithium-sodium hybrid energy storage station -- the Baochi energy storage station developed by CSG -- was officially put into operation in Wenshan ...



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...

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## China's 1st large-scale lithium-sodium hybrid ...

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