

## SolarTech Power Solutions

# 20 000 kWh energy storage power station



## Overview

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Covering an area of 1,800 square meters, about 2.5 times as large as a football pitch, the project has an energy storage scale of 10 megawatt/20 megawatt-hours and can store 20,000 kWh of power within two hours, making it the carbon dioxide energy storage project with the world's largest single-machine capacity and energy storage capacity. 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.

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 battery store a day?

It can store 800,000 kWh of electricity per day, which can be used by 270,000 households. China's first large-scale lithium-sodium hybrid energy storage station has been put into operation, capable of powering hundreds of thousands of homes, as sodium-ion batteries are more widely adopted.

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.

How much power does a battery storage system have in 2023?

Capacity for global battery energy storage systems rose 42 gigawatts in 2023, nearly doubling the total increase in capacity observed in the previous year, according to the International Energy Agency. — CNBC's Arjun Kharpal contributed reporting.

Could a grid-side energy storage power station solve urban electricity problems?

"The grid-side energy storage power station is a 'smart regulator' for urban electricity, which can flexibly adjust grid resources," Tesla said on Weibo, according to a Google translation. This would "effectively solve the pressure of urban power supply and ensure the safe, stable and efficient electricity demand of the city," it added.

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