



LOTWA SYSTEM

# Energy storage on the China Southern Power Grid side





## Overview

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Does China have a power grid?

China has invested significantly in expanding power generation capacity and enhancing grid infrastructure across its vast and geographically diverse territory. Although coal remains the dominant energy source, China has made significant progress in developing renewable energy, including wind, solar, nuclear, and hydropower, as part of a broader strategy to diversify its energy mix.

How big is China's energy storage capacity?

The cumulative installed capacity of new energy storage in China is expected to exceed 100 gigawatts (GW) by 2025, according to the Energy Storage Industry Research White Paper 2025 released by the Institute of Engineering Thermophysics on 10 April. The capacity is likely to surpass 200GW by 2030, more than double the 2024 level of 73.76GW.

Which SOE restructured the electricity grid?

The electricity grid was restructured into two SOEs: The State Grid Corporation and The China Southern Power Grid. State Grid Corporation accounts for 80% of electricity transmission, while China Southern Power Grid accounts for the southern half of China (Sandalow et al.

Why is new energy storage important in China?

SINGAPORE (ICIS)-New energy storage plays a crucial role in ensuring power balance in China, especially in effectively addressing the intermittent issues of new energy generation. It helps alleviate the dual pressures of power supply security and consumption.



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