



WALMER ENERGY

China's solar energy supporting energy storage base station





Overview

The world's first intelligent grid-forming photovoltaic and energy storage power station, tailored for ultra-high altitudes, low-temperatures and weak-grid scenarios, has been connected to the grid in Ngari Prefecture, southwest China's Xizang Autonomous Region. Where are solar energy storage units located in China?

On a mountain pass in Jiawa village, Qusum county, Shannan, southwest China's Xizang autonomous region, rows of energy storage units hum quietly beside a solar-storage power station. "These facilities are designed to work with photovoltaic power generation.

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 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 China's Energy Storage plan?

The plan's target represents a significant scaling up, even for the world's leading adopter and producer of energy storage technologies. 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.



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China's largest energy storage photovoltaic power station

China's largest floating photovoltaic (PV) power station, Anhui Fuyang Southern Wind-solar-storage Base floating PV power station, achieved full capacity grid connection on Wednesday.

China leads the world in new-type energy storage capacity

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Largest solar power stations in China

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