

China solar power with grid backup Buyer





Overview

What are the main issues with China's energy grid?

Heatwaves and industrial demand spikes have exposed weaknesses in China's grid, such as higher curtailment rates and ineffective transmission to areas of high energy demand in the east. This is partly due to rapid renewable deployment outpacing grid expansion.

How much solar power did China install in H1 2025?

In H1 2025, the world added 380 gigawatts (GW) of new solar capacity – a staggering 64% jump compared to the same period in 2024, when 232 GW came online. China was responsible for installing a massive 256 GW of that solar capacity. For context, it took until September last year to pass the 350 GW mark.

Are global solar installations breaking records again in 2025?

Global solar installations are breaking records again in 2025. In H1 2025, the world added 380 gigawatts (GW) of new solar capacity – a staggering 64% jump compared to the same period in 2024, when 232 GW came online. China was responsible for installing a massive 256 GW of that solar capacity.

Will China's energy investment slow in 2025?

While renewable installations are set to continue, investment growth is expected to slow in 2025. In the case of solar PV, investment is even expected to fall back slightly. China achieved its 2030 wind and solar capacity target in 2024, six years ahead of schedule. China's evolving macroeconomic priorities have long shaped its approach to energy investment.



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[China's Energy Crossroads: Investing in Solar, ...](#)

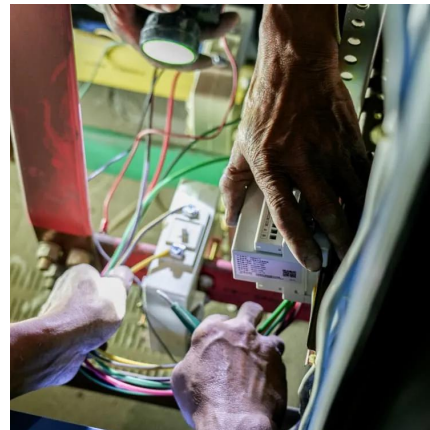
This unprecedented strain on the grid has exposed vulnerabilities in China's energy infrastructure while illuminating opportunities for strategic investors in solar, energy storage, and efficiency technologies.

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[China to implement on-grid tariffs, exposing its PV industry ...](#)

On February 9, 2025, China's National Development and Reform Commission (NDRC) and the National Energy Administration (NEA) jointly issued the Notice on Deepening ...

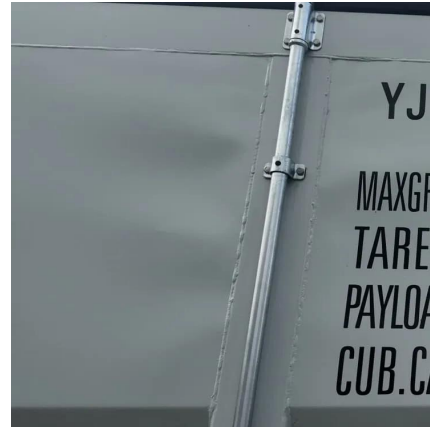
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[Chinese PV Industry Brief: PowerChina launches 31 GW solar ...](#)

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The global shift toward decentralized energy has intensified demand for reliable solar power systems--especially those compatible with grid buy-back programs. As businesses and ...

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[Combined solar power and storage as cost-competitive ...](#)



The findings highlight a crucial energy transition point, not only for China but for other countries, at which combined solar power and storage systems become a cheaper ...

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