

The prospects of solar thermal power generation in China



Overview

China unveiled a policy roadmap on Tuesday to accelerate solar thermal power development, targeting around 15 gigawatts (GW) of installed capacity by 2030, with costs broadly comparable to coal-fired power. This article analyzes the strategic plan for the high-quality development of China's solar thermal industry, driven by the "dual carbon" goals and energy transformation initiatives. By mid-2025, China's installed CSP capacity reached 1.14 GW, with a pipeline exceeding 8. In a recent study published in the journal *Southern Energy Construction*, researchers from the China Energy Technology and Economics Research Institute have provided a comprehensive overview of the solar thermal power generation landscape in China. 2 TW and pushing non-fossil power sources past thermal generation for the first time. China's National Energy Administration (NEA) released its 2025 power sector statistics on Jan.

The prospects of solar thermal power generation in China



China's Solar Thermal Power Industry Sees Significant Growth in 2024

Advancements in power plant operations and maintenance further contributed to improved performance. The total electricity generation from China's first batch of eight solar thermal ...

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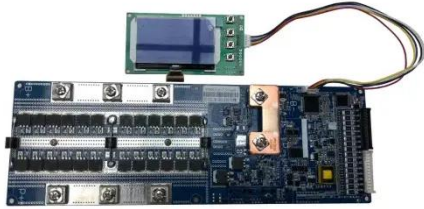
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China targets 15 GW of solar thermal power capacity by 2030

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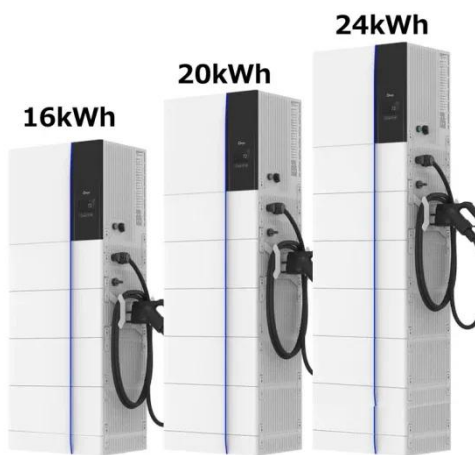


The Status and Prospects of Solar Power Generation Technology ...

growth and success in the solar photovoltaic power generation market. As the world's largest energy consumer, China's commitment to renewable energy and its pursuit of a more sustainable energy ...

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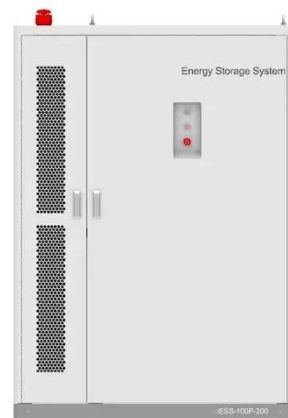
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China Advances 42 Solar Thermal Power Projects Under ...

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Mapping the concentrated solar power development in China: ...

We comprehensively evaluate concentrated solar power (CSP) potential in China across four dimensions: geographical, technical, economic, and CO2 mitigation, and extend the analysis

...

Concentrating Solar Thermal Power in China: 2025 Review and Outlook

China has become a global leader in the development of concentrating solar thermal power (CSP), taking advantage

of state support, localized supply chains, and integration within ...



China adds 315 GW of solar in 2025 - pv magazine International

China installed a record 315 GW (AC) of new solar capacity in 2025, lifting cumulative installed PV capacity to 1.2 TW and pushing non-fossil power sources past thermal generation for the ...

Research Overview of Solar Thermal Power Technology in China

Next, we analyzed current solar thermal projects connected to the grid in China, examining aspects such as investment costs, operational power generation and economic viability, as well as projects that ...



China's Solar Thermal Power Boom: Insights, Challenges, and ...

By analyzing the current status, challenges, and development

recommendations for solar thermal power generation in China, the research offers systematic theoretical support and practical ...



China's Solar Thermal Market Shifting from Individual Installations

...

In 2021, China added 27.05 million square meters of installed solar thermal capacity, an increase of 0.04% year-on-year and 71.5% of the world's new installed capacity.



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