



China Solar Thermal Power Generation Network





Overview

As a technology innovation-oriented cooperative organization composed of enterprises, universities, and research institutions, the Solar Thermal Alliance brings together the strengths of its member units and the broader industry to actively promote the healthy and sustainable. As a technology innovation-oriented cooperative organization composed of enterprises, universities, and research institutions, the Solar Thermal Alliance brings together the strengths of its member units and the broader industry to actively promote the healthy and sustainable. An aerial drone photo taken on July 28, 2025 shows a 1GW solar thermal and photovoltaic integrated project in Shanshan County, northwest China's Xinjiang Uygur Autonomous Region. (Photo by Xu Zipeng/Xinhua) BEIJING, Dec. 23 (Xinhua) -- China unveiled a policy roadmap on Tuesday to accelerate solar. China has reportedly developed the world's first dual-tower solar thermal plant near Guazhou County in Gansu Province to enhance efficiency and reduce carbon dioxide emissions. The plant will use solar heat instead of coal to convert water to high-pressure steam, which is used to rotate turbines. 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. Updated on October 8, 2025, at 19:57 - According to CSPPLAZA, as of September 18, 2025, a consortium has initiated the "Solar Thermal + Solar. Project Overview Power Station: Three Gorges CTGR Henderson Energy Guazhou 2x50MW Tower + 200MW PV + 400MW Wind Location: Qiaowan, Guazhou Jiuquan Gansu China Owners (%): 51% Henderson. By mid-2025, China's installed CSP capacity reached 1.14 GW, with a pipeline exceeding 8.



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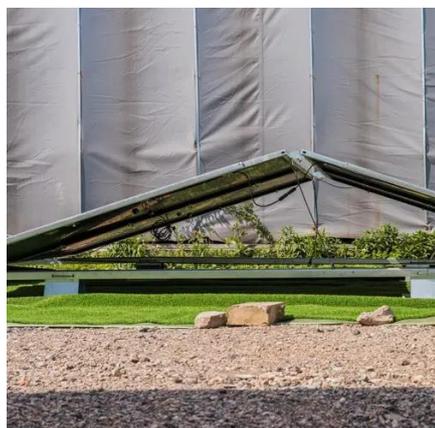


[How China built the world's first solar thermal power](#)

As nations race to meet net-zero goals, China's dual-tower solar thermal plant signals a technological shift in how the world approaches sustainable energy generation.

China Solar Thermal Alliance

In 2012, it was rated as a Class A Alliance by the Ministry of Science and Technology.



[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 ...

[World's 1st dual-tower solar plant to make 1.8 billion kWh yearly](#)

China has reportedly developed the world's first dual-tower solar thermal plant near Guazhou County in Gansu Province to enhance efficiency and reduce carbon dioxide emissions.



[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 targets 15 GW of solar thermal power capacity by 2030](#)

To tackle these obstacles, the document outlines strategies such as developing large-capacity solar thermal plants tailored to regional conditions, and implementing integrated projects ...



[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 ...

[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 ...



[China Advances 42 Solar Thermal Power Projects Under ...](#)

As of now, there are 42 solar thermal power projects under construction or in the planning stages, with the latest developments being closely monitored.



China - Solar Thermal Power

Project Overview Power Station:Lanzhou Dacheng
Dunhuang (DCTC Dunhuang) - 50MW
FresnelLocation:Dunhuang, Jiuquan, Gansu,
ChinaOwners (%):Dunhuang Dacheng
Concentrating ...





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