



China Tower Solar Power Generation

What is China's new dual-tower solar power project?

China's foray into solar thermal power began in 2016, but this new project takes it a step further with its dual-tower design. "The mirrors in the overlapping area can be utilized by either tower," explains plant project manager Wen Jiangong. "This configuration is expected to enhance efficiency by 24 percent."

Where is China's first dual-tower solar thermal plant located?

China Three Gorges Corporation An aerial view of the world's first dual-tower solar thermal plant in northwest China's Gansu Province. /China Three Gorges Corporation A Chinese power company is pioneering world-first technology by combining two endothermic towers to achieve a significant efficiency boost.

What is the installed capacity of solar power in China?

The installed capacity of solar power in China had grown steadily. The newly installed capacity of solar power was 30.3GW (including an increase of 200MW for CSP), and the cumulative installed capacity had reached 204.74GW(including 440 MW of CSP).

How big is China's solar power plant?

The plant covers an area of 33,000 acres(200,000 Chinese mu) and is reported to have an output of 6.09 billion kWh annually. Data released by China's National Agency in January revealed that the country's solar electric power generation capacity grew by a staggering 55.2 percent in 2023.

How does China use solar energy?

China's initiative in solar thermal energy storage utilizes multiple towers, with two of them sharing a common turbine. This design optimizes the efficiency of solar thermal power generation by strategically positioning mirrors in overlapping concentric circles to maximize sunlight reflection. How can solar energy be utilized after sunset?

What is a twin tower solar power project?

The project's twin tower configuration and adaptable mirror array are poised to enhance solar thermal power generation efficiency and reliability. Anticipated annual output is 1.8 billion kilowatt hours, contributing to a reduction of 1.53 million tons of carbon dioxide emissions annually.

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