

# Is China currently generating electricity from solar energy



## Overview

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China achieved a new milestone in its energy transition, with wind and solar power together generating a quarter (26%) of the country's electricity in April 2025, the highest monthly share on record, according to the latest data from global energy think tank Ember. China is the largest market in the world for both photovoltaics (PV) and solar thermal energy. Its PV capacity crossed 1,000 gigawatt (one terawatt, 1 TW) in May 2025. [1]. 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. Guided by its goals of peaking carbon emissions before 2030 and achieving carbon neutrality by 2060, the country is rapidly reshaping its power. China installed a record 315 GW (AC) of new solar capacity in 2025, lifting cumulative installed PV capacity to 1. China's National Energy Administration (NEA) released its 2025 power sector statistics on Jan. This surpasses the previous.

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### China's solar capacity installations grew rapidly in 2024

Utility-scale solar power capacity in China reached more than 880 gigawatts (GW) in 2024, according to China's National Energy Administration. China has more utility-scale solar than ...

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### China's solar power capacity is on course to surpass coal this year

China's solar generating capacity is expected to surpass coal for the first time this year, according to the country's top electricity industry group, marking a milestone in the country's



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### How China adds more renewable energy than any other economy

Chinese renewable generation reached 366 terawatt-hours (TWh), making wind and solar the country's largest sources of new power. This transformation has also driven the rise of new ...



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### China achieves new milestone in energy transition

China has set a new benchmark in its transition to renewable energy, with wind and solar power sources generating 26% of the nation's electricity in April 2025. The achievement marks ...

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### Wind and Solar Reach 25% Share of China's Electricity Mix

China reached a significant renewable energy milestone in April, with wind and solar power together generating 26% of the country's electricity, marking the first time these sources have supplied more ...

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### China breaks more records with surge in solar and wind power

China's installations of wind and solar in May are enough to generate as much electricity as Poland, as the world's second-biggest economy breaks further records with its rapid buildup of

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### 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 ...



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## Solar power in China

A large part of the solar power capacity installed in China is in the form of large PV power plants in the west of the country, an area much less populated than the eastern part but with better solar ...

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## H1 2025: China installs more solar than rest of the world combined

China is leading this surge by a wide margin. In the first half of 2025, the country installed more than twice as much solar capacity as the rest of the world combined, accounting for 67% of

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## Solar power in China

OverviewSolar photovoltaicsHistorySolar resourcesConcentrated solar powerSolar water heatingEffects on the global solar power industryGovernment incentives

As of at least 2024, China has one third of the world's installed solar panel capacity and is the largest domestic market for solar panels. A large part of the solar power capacity installed in China is in the form of large PV power plants in the west of the country, an area much less populated than the eastern part but with better solar resources and available land.



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