

China solar power 2025







Overview

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. This surpasses the previous.

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China is set to break new ground in its energy transition, with 2025 renewable capacity additions projected to exceed 500 GW, driven by surging solar and wind deployment, according to a new report from the State Grid Energy Research Institute. China's total installed power generation capacity is.

9.6GW, accounting for 74%, with wind additions of 9.1GW or 17%, while thermal power only made up 7%, marking a 6% decline yo   Figure 1. During the same period, China invested RMB44 assing th rmal power capacity for the first time, and together y, and comprised a 22% share of total power.

In May 2025 alone, the country added 93 gigawatts of solar capacity, or nearly 100 solar panels per second, and 26 gigawatts of wind capacity, or about 5,300 wind turbines. This breaks down to about one turbine installed every 10 minutes, according to Lauri Myllyvirta, non-resident senior fellow at.

Pre-June 1, 2025 installation rush brings over 45 GW in April alone China installed 104.93 GW of solar from January to April 2025, surpassing the 100 GW milestone 2 months earlier than in 2024, when the mark was reached in the first half, according to the latest data released by the country's.

China's solar power capacity reached an impressive 201.22 GW in the first half of 2025, as reported by the National Energy Administration (NEA). This signifies substantial growth, with 64.61 GW installed in the first quarter and a further 136.61 GW added in the second quarter. This brings the.



Recently, both domestic and international industry associations and research institutions have revised upward their forecasts for global solar photovoltaic (PV) installations in 2025, as China's new PV capacity additions hit another record high in the first half of the year. The China Photovoltaic. How much solar power does China have in 2025?

By the end of May 2025, China had added 197.85 GW of solar capacity and 46.28 GW of wind for the year, representing year-on-year growth of 150% and 134%, respectively. Cumulative solar and wind capacity reached 1.684 TW, comprising 45.8% of the country's total generation capacity.

Are China's solar panels going down in 2025?

A technician checks solar panel products at a new energy tech company in Hefei, Anhui province. RUAN XUEFENG/FOR CHINA DAILY China's solar power installations are expected to decline in 2025, as the industry cuts excessive production and shifts toward a more rational deployment of photovoltaic projects, according to industry forecasts.

How much power capacity is installed in China in 2025?

rmal power capacity for the first time, and together tal capacity cumulative capacity – Figure 2. Figure 2. Total Installed Capacity as of February 2025 in China ELECTRICITY GENERATION MIX In January-February 2025, solar and wind power generation combined totalled 354TWh, up 13% y.

How much energy does China generate a month in 2025?

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. This surpasses the previous record of 23.7% set a month earlier in March 2025.

How much solar power does China have?

Cumulative solar and wind capacity reached 1.684 TW, comprising 45.8% of the country's total generation capacity. China's cumulative installed solar capacity has surpassed 1 TW, according to the National Energy Administration. As of May 2025, solar capacity stood at 1.08 TW, or 1,080 GW, up 56.9% from a year earlier.

How many GW will China have in 2025?



The China Photovoltaic Industry Association (CPIA) has forecast between 215 GW and 255 GW of new PV capacity additions for 2025, after growing by 277 GW in 2024. It lists insufficient grid capacity and the market-oriented power pricing system as the reasons for this expected slowdown.



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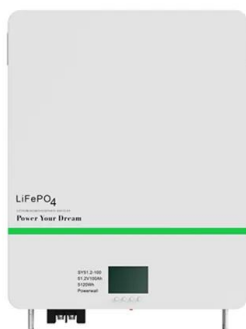
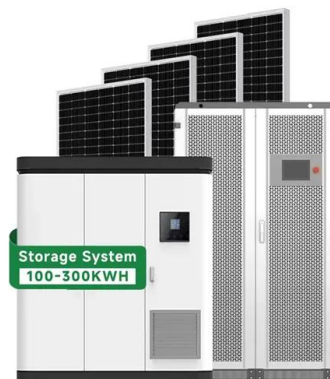


China Will Have 1 Trillion Watts of Solar by the end ...

The China Renewable Energy Engineering Institute (CREEI) reports that by the end of 2024, China is set to add 190GW of solar capacity and 70GW of wind. The NEA reports China added 217GW of solar power ...

[China Solar and Wind Installations Break More ...](#)

China is leading the world in new solar and wind installations and doing so at a record-shattering pace. In May 2025 alone, the country added 93 gigawatts of solar capacity, or nearly 100 solar panels ...



[China's Solar Industry Gathers as Gloom Deepens ...](#)

In April alone, China installed about 45 gigawatts of solar power, more than triple the amount in the same month last year. It brings the country's total to just a few gigawatts shy of one terawatt, roughly half the ...

[China moves to curb solar overcapacity, stabilize ...](#)

China's top industry officials have vowed to curb low-price competition and excess capacity in the solar sector, as authorities begin implementing



measures aimed at stabilizing supply chains and



[As China's renewable capacity soars, utilisation](#)

...

The curtailment rate for solar power rose to 6.6% in the first half of 2025 from 3.9% in the same period a year earlier while the rate for wind rose to 5.7% from 3%, according to the National New



[China Briefing 9 January 2025: 2025 government](#)

...

Key developments Energy priorities in 2025 XI SPEAKS: President Xi Jinping underscored China's low-carbon technology success in his new year's address for 2025, mentioning that China "produced more ...



[China's growth in utility-scale photovoltaic ...](#)

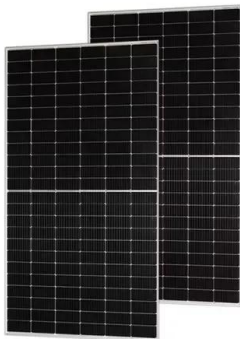
China installed more solar panels in power plants than on rooftops last year for the first time since 2020 as President Xi Jinping's push to build large-scale renewable facilities in inland deserts boosted growth.





China's Solar Power Additions Reach New High in First Half of 2025

6 ???· Original By NLS Recently, both domestic and international industry associations and research institutions have revised upward their forecasts for global solar photovoltaic (PV) ...



China solar installations Surge: Impressive 2025 H1 Growth

6 ???· China Solar Installations: Impact on Energy Mix Solar power is steadily gaining prominence in China's energy mix. In the first half of 2025, it contributed 6.7% to the country's ...

[China's PV Industry from 2024 to 2025: Navigating ...](#)

Therefore, although China's PV market faces challenges, it still has many opportunities in 2025. 2025: Global PV market continues to grow In 2025, global installed PV capacity will continue to grow. ...



[China's solar capacity surges: expected to top 1 ...](#)

Pumped hydro, for example, is developing fast in China to meet seasonal changes in energy demand. By June 2023, China had 49 GW of pumped hydro, which is expected to reach 64 GW by 2025 and over ...



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