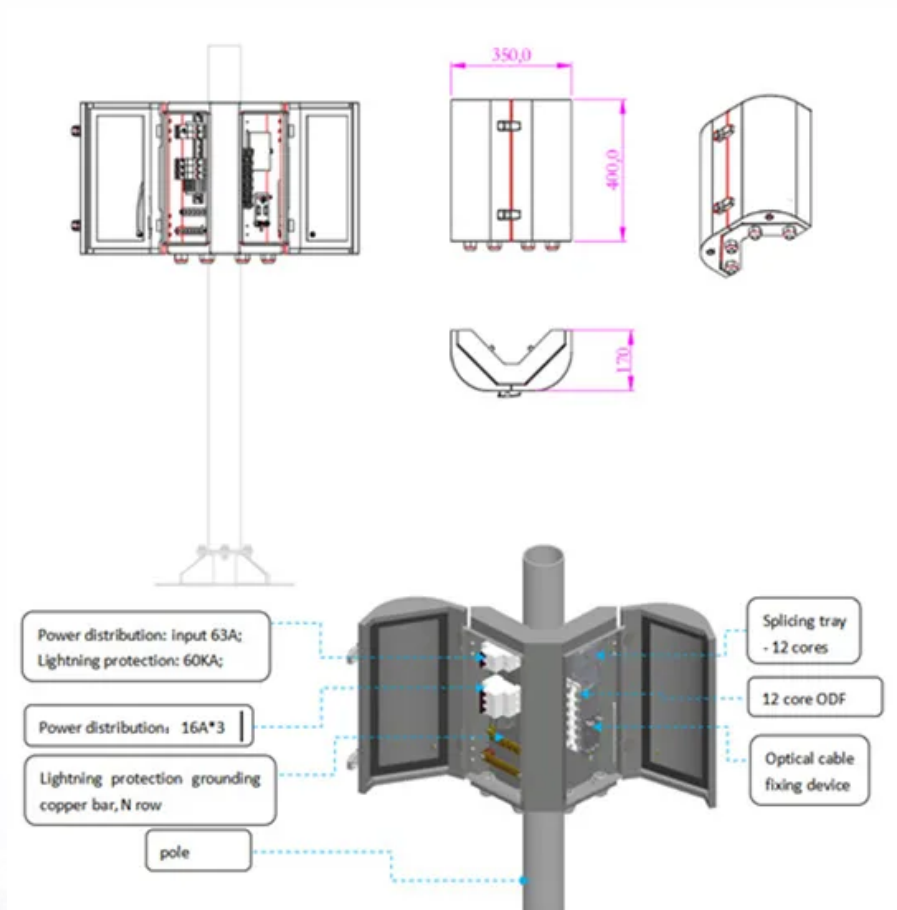


China solar power capacity 2025






Overview

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

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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.

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.

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 National Energy Administration (NEA). Last year, China exceeded 100 GW of. 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.

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



ChinaELECTRICITY GENERATION MIX In January-February 2025, solar and wind power generation combined totalled 354TWh, up 13% y.

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.

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 big is solar power in 2025?

As of May 2025, solar capacity stood at 1.08 TW, or 1,080 GW, up 56.9% from a year earlier. The country's power consumption is also increasing. Total electricity demand in 2025 is projected to exceed 10 trillion kWh, about 5% higher than in 2024, supported by ongoing economic growth.



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[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 breaks solar installation record in a big way](#)

China has recently achieved a remarkable milestone in solar energy, setting a new record for solar power capacity installation. In May, the nation added an astounding 93 gigawatts (GW) of solar capacity, ...



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[China's solar, wind power installations soared to ...](#)

China broke its own records for new wind and solar power installations again last year, official data showed on Tuesday, accelerating from a breakneck pace set in 2023 as the country looks to peak

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'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. ...

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