

# China solar power capacity installations



**European  
Warehouse**



**7-15 days**  
Delivery

**ONE-STOP SOLUTION**

**65kWh 30kW**

**130kWh 30kW**

**130kWh 60kW**





## Overview

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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.

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.

Data includes solar project phases with capacity of 20 megawatts (MW) or more and wind project phases with a capacity of 10 MW or more. Capacity under construction for China and Europe updated in June 2024, while other regions accurate to December 2023. What happened in the past year?

China added.

Note: NEA considers utility-scale solar to include projects of at least six megawatts of installed alternating current capacity. 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.

China's cumulative installed solar capacity hit 886.66 GW at the end of 2024, with 277.17 GW of new annual installations, up 45.48% year on year. The deployment surge exceeded forecasts, setting a new historical record for PV installations. China's National Energy Administration (NEA) has released.

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. How big is China's solar capacity?

By the end of 2024, China's total installed PV capacity had reached 886.66 GW, up 277.17 GW from 609.49 GW at the end of 2023. This marks an annual



growth rate of 45.48%, setting a new historical record for solar capacity expansion. The nation added 216.88 GW of new PV capacity in 2023, up 148.12% from 2022.

How much solar capacity will China have in 2024?

The 277 GW of utility-scale solar capacity installed in China in 2024 alone is more than twice as much as the 121 GW of utility-scale solar capacity installed in the United States at the end of 2024. Planned solar capacity projects will likely lead to continued growth in China's solar capacity.

How much solar power will China install this year?

With the world's largest, most complete new-energy industry chain, China is expected to install 230 to 260 gigawatts of solar capacity this year, topping the record of 217 GW set last year, according to the China Photovoltaic Industry Association.

Does China have more utility-scale solar?

China has more utility-scale solar than any other country. The 277 GW of utility-scale solar capacity installed in China in 2024 alone is more than twice as much as the 121 GW of utility-scale solar capacity installed in the United States at the end of 2024.

How much solar power will China have in 2025?

With the April 2025 additions, China's aggregate installed solar power generation capacity has reached 990 GW, with a 47.7% year-on-year (YoY) increase. 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.

Will planned solar projects lead to continued growth in China's solar capacity?

Planned solar capacity projects will likely lead to continued growth in China's solar capacity. More than 720 GW of solar capacity are in development: about 250 GW under construction, nearly 300 GW in pre-construction phases, and 177 GW of announced projects, according to the Global Solar Power Tracker compiled by Global Energy Monitor.



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### China builds more utility-scale solar as competition ...

China's transition to more utility-scale solar installations furthers its decarbonization efforts. However, regional resource limitations, limited interprovincial electricity transfers, and cheap coal present ...

### [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, ...



### [IEA: China to triple renewable energy capacity by ...](#)

China is set to expand its renewable energy capacity by nearly 3,207 GW from 2024 to 2030, tripling the growth seen in the previous six years, according to the International Energy Agency (IEA). Annual ...

### [China adds 102.48GW of solar capacity in first half...](#)

China has bolstered its solar power generating capacity, adding a total of 102.48GW of new solar installations between January and June



2024, according to data released by China's National Energy ...



### [China continues to lead the world in wind and ...](#)

By the first quarter of 2024, China's total utility-scale solar and wind capacity reached 758 GW, though data from China Electricity Council put the total capacity, including distributed solar, at 1,120 GW.



### **China's wind, solar energy capacity surpasses thermal power for ...**

BEIJING, April 25 -- China's installed capacity of wind and photovoltaic power reached 1.482 billion kilowatts by the end of March, exceeding that of thermal power for the first time in ...



51.2V 300AH

### [Solar power installations hit new highs](#)

5 ???· With the world's largest, most complete new-energy industry chain, China is expected to install 230 to 260 gigawatts of solar capacity this year, topping the record of 217 GW set last ...





## [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



## [2023's record solar surge explained in six charts](#)

2023's record solar surge explained in six charts  
Global solar power capacity skyrocketed in 2023, leading to a rapid acceleration of clean power revolution. The solar surge is not just about the remarkable ...

## [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 ...



## [Digging into China's solar capacity numbers](#)

Amid a record amount of new solar capacity added in China in 2024, the share held by small-scale, "distributed" arrays fell to 38%, from 58% in 2022. Grid constraints, policy changes, and pricing adjustments ...



### [China achieves new milestone in energy transition](#)

The surge in solar energy has been particularly notable, with its share tripling from 4.1% in April 2020 to 12.4% in April 2025. The acceleration of solar capacity installations has been a key driver behind ...



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