

# The current situation of solar power generation in China

OverviewHistorySolar resourcesSolar photovoltaicsConcentrated solar powerSolar water heatingEffects on the global solar power industryGovernment incentivesChina 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. By June 2025, China's PV capacity surpassed 1,100 gigawatt. In 2024, China added 277 gigawatts (GW) of solar power, which was equivalent to 15% of the world's total cumulative installed solar capacity.

Solar power in China China's solar potential Wind and solar surpassed a quarter of China's electricity generation for the first time in April 2025.

Solar surged 64% in H1 2025 with 380 GW added worldwide, led by China's record pace, keeping 2025 on track for new highs.

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 ...

China leads global utility-scale solar capacity for projects in announced, pre-construction, and construction phases. According to Global Energy Monitor's Global Solar Power Tracker, China has over 709 GW1 of ...

Still, a dominant 62% of China's total annual power generation came from thermal power, reaching 6,171TWh, a 1.7% y-o-y decrease. 59% of this 62% share came from coal.

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 ...

China's solar energy production is reaching simply staggering levels, dragging energy costs down around the globe.

China's cumulative installed power generation capacity reached 3.69 billion kilowatts by the end of August, marking a year-on-year increase of 18 percent, official data showed on Friday.

So there is a lot of uncertainty in the Chinese solar industry, but there are also irrefutable facts: China needs to continue to expand domestic solar capacity to reach its climate target....

In 2023, China's new energy investment grew rapidly, the investment in solar PV exceeded 670 billion CNY, while the investment in wind power exceeded 380 billion CNY.



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