

China s domestic solar power generation



Overview

Wind and solar surpassed a quarter of China's electricity generation for the first time in April 2025. China is the largest market in the world for both photovoltaics (PV) and solar thermal energy. China's National Energy Administration (NEA) released its 2025 power sector statistics on Jan. China's wind and solar power installed capacity totaled 1,840 GW at. Last year, a viral drone video from China's Guizhou province revealed an entire mountain range blanketed in solar panels stretching to the horizon. It's a stunning visual, but it doesn't even begin to capture the staggering amount of solar power being produced by the People's Republic. As of 2024, 45.2% of new capacity (see Figure 1 below). This was over 8 times more than thermal, and 5 times more than wind. In the month of April alone, 45.2GW of solar was added, more than Australia's power. dropower and is now the second largest installed power source, accounting for 21% of the total installed power.

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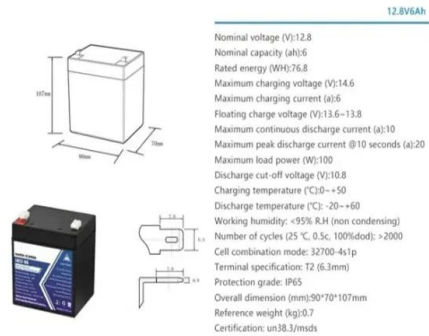


[China's solar power capacity is on course to surpass coal this year](#)

China's solar power capacity is on course to surpass coal this year. A sunset glow lights up wind turbines and rows of solar panels at a wind farm in Qingyang, Gansu province, China.

[China's solar power capacity to surpass coal in 2026](#)

Over 400 GW of new generation capacity is expected in 2026. China's installed solar power capacity is set to surpass coal for the first time in 2026. According to the 2025-2026 National Power



[China's Wind, Solar Power Installed Capacity Exceeded 1,800 GW for](#)

The country added 120 GW of wind and solar power in 2022, 290 GW in 2023, 360 GW in 2024, and 434 GW last year, of which about 119 GW of wind power and 315 GW of solar power, ...

[The Amount of New Solar Power Production Capacity China Is](#)

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



WIND POWER AND SOLAR PV CONTINUE TO EXPERIENCE ...

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.

Solar energy in China

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



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 ...



[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 ...



[China's solar capacity installations grew rapidly in 2024](#)

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 ...



[China electricity statistics](#)

CEF's discussions with China's XCMG heavy equipment OEM indicate China will readily deliver on this new ambitious target, as XCMG is now possibly the world's largest mine and haulage electric vehicle ...



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