

# Total solar power generation capacity in China

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Hydropower accounted for 436 million kilowatts, wind power for 521 million kilowatts, solar power for 887 million kilowatts, and biomass power for 46 million kilowatts.

China's installed capacity of wind and solar power has been on the rise over the past years. The country added 120 GW of wind and solar power in 2022, 290 GW in 2023, 360 GW in ...

In 2020, China saw an increase in annual solar energy installations with 48.4 GW of solar energy capacity being added, accounting for 3.5% of China's energy capacity that year. 2020 is currently the ...

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, ...

In CY2024, China hit a new record of annual net new capacity added to the grid at 429GW, a 21% y-o-y increase. Of this, wind and solar power combined capacity accounted for 83% at 356.5GW, dwarfing ...

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 ...

As of the end of 2025, China's total installed power generation capacity reached 3.89 billion kilowatts (kW), a year-on-year increase of 16.1 percent. Solar energy was the standout ...

By the end of 2024, however, China had already reached 890 GW of solar capacity and 520 GW of wind power - totaling 1.4 TW - surpassing the target six years ahead of schedule.

China was responsible for installing a massive 256 GW of that solar capacity. For context, it took until September last year to pass the 350 GW mark. This year, the milestone was achieved in...



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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...

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