

China's share of global solar power generation

China is leading this surge by a wide margin. In the first half of 2025, the country installed more than twice as much solar capacity as the rest of the world combined, accounting for 67% of...

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 ...

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 ...

China remains the global leader of this surge. In the first half of 2025, its installations more than doubled compared with the same period last year. As a result, China added more than twice as ...

Wind and solar alone added 366 terawatt-hours of generation capacity. China and India together have driven more than 90% of the increase in global CO2 emissions from all sources ...

While some point to China's continued construction of flexible coal fired power plants (designed to balance VRE), they ignore that China's imported oil use in transport probably peaked in 2024, a ...

China's solar power generation accounted for 8.3% of the global total, more than double the 2021 figure. The growth of China's clean energy met 81% of the country's new electricity ...

According to Global Energy Monitor's Global Solar Power Tracker, China has over 709 GW1 of prospective solar capacity, representing over one-third of planned solar capacity worldwide in 2025.

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, ...

OverviewHistorySolar resourcesSolar photovoltaicsConcentrated solar powerSolar water heatingEffects on the global solar power industryGovernment incentivesPhotovoltaic research in China began in 1958 with the development of China's first piece of monocrystalline silicon. Research continued with the development of solar cells for space satellites in 1968. The Institute of Semiconductors of the Chinese Academy of Sciences led this research for a year, stopping after batteries failed to operate. Other research institutions continued the development and research of sola...

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

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