Wind power generation in China and the US

How big is China's Wind power?
China's wind capacity follows a similar rate of growth as solar,according to Global Energy Monitor's Global Wind Power Tracker,with over 590 GWin prospective phases -- nearly 530 GW of onshore capacity and 63 GW of offshore capacity.

Where does wind power come from?
The Asia-Pacific region remains at the forefront, with China accounting for 70% of global installations. Europe holds its position as the second-largest wind market, adding 16.4 GW of new capacity -- 12.9 GW of which comes from the EU-27.

How much wind power does China have in 2025?
As of May 2025,China added 46 GW of new wind capacity for the year,bringing the total to 570 GWof operating capacity. A notable project is the Omattingga Wind Farm in Tibet,a 100 megawatt (MW) installation that is the world's highest-altitude wind farm. At 4,650 meters high,it produces about 200 gigawatt hours (GWh) annually.

Does China have more wind power than the US?
Expanding renewable capacity,especially wind power,is a central strategy to achieve these climate goals. Despite greater capacity for wind installation in China compared to the US (145.1 versus 75.0 GW),less wind electricity is generated in China (186.3 versus 190.9 TWh).

China dominates global wind power with over 300 GW, surpassing the US. Find out how it is consolidating its leadership in this sector.

Figure 1 China"s wind capacity follows a similar rate of growth as solar, according to Global Energy Monitor"s Global Wind Power Tracker, with over 590 GW in prospective phases -- nearly 530 ...

Coal fell below 15% of the US electricity mix for the first time in 2024. Coal power was predominantly replaced by an increase in wind and solar generation (+722 TWh since 2007) and gas ...

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energy to generate electricity, and it is also an important technological ...

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Last year, global renewable energy installations had a significant rebound, increasing the share of total energy generation to 30%. China remains the world"s leading wind power producer, ...

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 ...

Despite the rapid growth in wind power generation, China has suffered a serious curtailment in wind power in several areas, especially in Xinjiang, Gansu, and Inner Mongolia. Policy ...

Several factors, such as wind power curtailment and quality of turbines, cause a reduced capacity of wind energy production in China compared with the US. The authors quantify the relative ...

China is the largest power producer and consumer and has the largest installed capacity of wind turbines (WTs) worldwide. In the last two decades, China"s installed capacity of WTs has ...

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