

Wind and solar power in china





Overview

Wind and solar now account for 37% of the total power capacity in the country, an 8% increase from 2022, and widely expected to surpass coal capacity, which is 39% of the total right now, in 2024. Cumulative annual utility-scale solar & wind power capacity in China, in gigawatts (GW).

Wind and solar now account for 37% of the total power capacity in the country, an 8% increase from 2022, and widely expected to surpass coal capacity, which is 39% of the total right now, in 2024. Cumulative annual utility-scale solar & wind power capacity in China, in gigawatts (GW).

Utility-scale solar and wind power capacity in the top ten countries broken down by status, in gigawatts (GW) Source: Global Solar Power Tracker, Global Wind Power Tracker, Global Energy Monitor Data includes solar project phases with capacity of 20 megawatts (MW) or more and wind project phases.

China achieved a new milestone in its energy transition, with wind and solar power together generating a quarter (26%) of the country's electricity in April 2025, the highest monthly share on record, according to the latest data from global energy think tank Ember. This surpasses the previous.

China is driving a global shift in energy with a record-breaking expansion of solar and wind power. Longyangxia Dam Solar Park. Photo courtesy of NASA. China is rapidly scaling up its solar and wind energy infrastructure, accounting for nearly three-quarters of all utility-scale projects currently.

China reached a significant renewable energy milestone in April, with wind and solar power together generating 26% of the country's electricity, marking the first time these sources have supplied more than a quarter of national demand in a single month. According to global energy think tank Ember.



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China is undergoing a transformative shift in its energy landscape. For the first time ever, wind and solar energy have as of June this year collectively eclipsed coal in capacity, according to the latest data from the ...

[China's Solar and Wind Capacity Surpasses That of ...](#)

China 's National Energy Administration has announced that the country's solar and wind energy capacity has exceeded that of thermal energy -- which is mostly coal-powered -- for the first time. The largest greenhouse gas ...



[What China's wind, solar power surge means for world](#)

Once niche industries, China's wind and solar sectors have grown into global frontrunners in both innovation and manufacturing, progressing from reliance on foreign core technologies to becoming the world's largest ...

Evaluating the geographical, technical and economic potential of wind

Download Citation , On Dec 1, 2024, Yuyang Ye and others published Evaluating the geographical, technical and economic potential



of wind and solar power in China: A critical ...



[China installs record capacity for solar \(+45%\) and ...](#)

According to China's National Energy Administration (NEA), the country's installed capacity increased by 14.6% in 2024, surpassing 3,348 GW. Solar capacity surged by a record 45.2% (+277 GW) to reach 887 GW, while ...

[China Invests More in Solar and Wind Than Coal ...](#)

Nearly 70 percent of China 's foreign power investments from 2022 to 2023 were in renewables like solar and wind, surpassing fossil fuels for the first time since Beijing started backing power projects overseas in the early ...



[Green energy development enters fast lane in China, ...](#)

The installed solar and wind power generation capacities in China saw rapid growth in 2024, according to the latest official statistics, a result of the country's accelerated push for new energy





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EcoChina , China's pursuit of wind and solar power contributes to ...

BEIJING, Jan. 17 (Xinhua) -- From the land to the sea, China's pursuit of green energy has promoted the development of wind power and solar power industries. In the context of the ...

China's wind, solar capacity exceeds thermal power ...

SINGAPORE, April 25 (Reuters) - China's wind and solar power generation capacity surged to 1,482 gigawatts by the end of March, exceeding fossil fuel-based thermal power capacity for the first



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