

# Is the probability of wind power generation high now



## Overview

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According to data from the Federal Energy Regulatory Commission (FERC), wind energy accounted for 30.1% of the new electricity capacity added in January 2025, and as the most-used renewable source in the U.S., it also surpassed the previous record set in 2024. According to preliminary statistics released by the World Wind Energy Association (WWEA), the world added 169,014 Megawatts (MW) of new wind capacity - a 35% increase over 2024 - bringing total global installations to 1,000,000 MW. According to the latest "US Wind Energy Monitor" report from Wood Mackenzie and the American Clean Power Association (ACP), developers installed 593 megawatts (MW) of new wind capacity in Q2 2025 - a 60% drop from the same quarter last year. But the US wind industry is expected to rebound fast. U.S. Overview of record wind. Why are Midwest grid operators turning away wind power?

. About a year ago, the United States passed a tipping point: for the first time ever, wind and solar power generated more electricity in America than coal, according to the International Energy Agency. Part of the reason is that wind and solar have become cheaper than fossil fuels in recent years. A new analysis of solar and wind power shows its generation worldwide has outpaced electricity demand this year. FILE - Wind turbines operate as the sun rises at the Klettwitz Nord solar energy park near Klettwitz, Germany, Oct.

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### U.S. Wind Power 2025: Capacity, IRA, Renewable Growth

Despite a 7% decline in wind power production in early April compared to the same period in 2024—primarily due to weaker wind speeds in regions like Texas—the overall contribution of wind

### Key U.S. Wind Power Trends and Metrics to Track

Current installed wind generation capacity in the U.S. is roughly 152 gigawatts (GW), according to the U.S. Energy Information Administration (EIA). That capacity is up 46% from 2019,



### [Wind and solar now produce more U.S. electricity than coal. What](#)

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### Wind power generation, 2025

Annual electricity generation from wind is measured in terawatt-hours (TWh) per year. This includes both onshore and offshore wind sources.





## VARIABILITY AND PREDICTABILITY OF LARGE-SCALE WIND

Wind power forecasting has already achieved a high level of accuracy, and further improvements are becoming increasingly smaller. However, there is promising research focused on integrating forecast



## Solar and Wind Power Has Grown Faster Than Electricity Demand

Worldwide solar and wind power generation has outpaced electricity demand this year, and for the first time on record, renewable energies combined generated more power than coal,



## Today in Energy

Why are Midwest grid operators turning away wind power?



## Solar and wind make up 90% of new US electricity capacity so far this

Utility-scale solar's share of total installed capacity of (11.42%) is now almost equal to that of wind (11.81%). Taken together, they constitute nearly one-fourth (23.23%) of the U.S.'s total



## Global Statistics

In 2025, wind turbines generated enough power to cover more than 11% of worldwide demand, surpassing nuclear energy and closing in on other fossil sources. This milestone reflects not

## **After a sluggish spring, US wind power is set for a 7.7**

US wind power fell 60% in Q2 2025 compared to Q2 2024, but year-end installations will see a rebound, pushing total capacity to 7.7 GW.



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