# Wind power generation availability

In 2022, wind turbines were the source of about 10.3% of total U.S. utility-scale electricity generation. Utility scale includes facilities with at least one megawatt (1,000 kilowatts) of electricity ...

Today nearly 84,000 onshore wind turbines across the country are generating clean, reliable power. Wind power capacity totals over 155 GW, making it the fourth-largest source of electricity generation ...

Wind supplies 57% of Denmark"s electricity generation and over 20% in ten other countries. 7 Global wind additions reached a record 117 GW in 2023. 7 In 2024, onshore installations surpassed 100 GW ...

The world"s installed wind power capacity now meets well over 10% of global electricity demand - and much more than nuclear power. More than 30 countries now have a share of wind ...

In wind energy operations, performance is everything, and performance starts with availability. While much attention is given to forecasts and production metrics, it"s equally important ...

The term "availability," as used in the wind industry, is a measure of the potential for a wind turbine or wind farm to generate electrical power. If the turbine is "available" and grid ...

The U.S. Wind Turbine Database (USWTDB) provides the locations of land-based and offshore wind turbines in the United States, corresponding wind project information, and turbine technical ...

Find maps and charts showing wind energy data and trends.

Wind power is thus proportional to the third power of the wind speed; the available power increases eightfold when the wind speed doubles. Change of wind speed by a factor of 2.1544 increases the ...

Wind power"s availability coincides with regional production rates. China produces the largest quantities of wind power around the world. The country generated over 236,402 megawatts ...

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