National Wind Power Generation

Overview

Wind power is a branch of the energy industry that has expanded quickly in the United States over the last several years. 9 terawatt-hours were generated by wind power, or 10. It involves using wind turbines to convert the turning motion of blades, pushed by moving air (kinetic energy) into electrical energy (electricity). [2] The average wind turbine generates enough electricity in 46. The United States 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 specifications. The first step is wind blowing across the blades of the turbine.

National Wind Power Generation

Wind power in the United States

OverviewCommercialization of wind powerHistoryEconomicsNational trendsWind power by stateOffshore wind powerWind energy meteorology

Since 2005 many turbine manufacturing leaders have opened U.S. facilities. Of the top 10 global manufacturers in 2007, seven - Vestas, GE Energy, Gamesa, Suzlon, Siemens, Acciona, and Nordex - have an American manufacturing presence. REpower is another manufacturer with notable usage in the United States. Plans for 30 new manufacturing facilities were announced in 2008, and the wind ind...

US Electricity 2025 - Special Report

The US clean electricity transition continued as wind and solar generated more than coal for the first time. Electricity demand growth sped up and solar generation rose more quickly than gas ...

Wind Power Facts and

Information , ACP , ACP

Utility-scale wind energy is the largest source of renewable electricity generation in the U.S. Learn more wind energy facts and statistics.

Wind Energy , Department of Energy

Wind power is the nation's largest source of renewable energy, with more than 150 gigawatts of wind energy installed across 42 U.S. States and Puerto Rico. These projects generate ...

U.S. Wind Turbine Database

The United States 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 ...

Wind Energy by State , February 2026 , Choose Energy

Wind energy generation increased by 2.03% nationally from November 2024 to November 2025. The following table

shows the top 10 states that experienced an increase in wind production ...

Wind generation declined in 2023 for the first time since the 1990s

U.S. electricity generation from wind turbines decreased for the first time since the mid-1990s in 2023 despite the addition of 6.2 gigawatts (GW) of new wind capacity last year.

Wind power in the United States

In 2019, wind power surpassed hydroelectric power as the largest renewable energy source in the U.S. In March and April of 2024, electricity generation from wind exceeded generation from coal, once the ...

Wind Energy Growth , Energy Markets & Planning

Just over 4 gigawatts (4,000 megawatts) of new wind power capacity was installed in the U.S. in 2024, down from recent years. Output from 154 gigawatts of installed wind now makes up 10.3% of the ...

A Decade of U.S. Wind Growth

Climate Central's report, A Decade of Growth in Solar and Wind Power, analyzed U.S. solar and wind energy data from 2014 to 2023 for all 50 states and the District of Columbia.

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