

# Wind power generation hours in recent years

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U.S. wind power capacity was bigger than ever in 2023 -- part of a decade-long growth trend for renewable energy. The U.S. generated 425,235 gigawatt-hours (GWh) of electricity from ...

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.

Conventional power plants range from \$39/MWh for the low end of Gas Combined Cycle up to \$221/MWh for the upper end of Gas Peaking and Nuclear power plants. The average LCOE for ...

As of 2023, wind power accounted for 12% of U.S. electricity generation capacity, compared with 11% for solar, 8% for nuclear, 7% for hydro, 16% for coal and 43% for natural gas, ...

OverviewNational trendsHistoryEconomicsWind power by stateCommercialization of wind powerOffshore wind powerWind energy meteorologyAs of 2022, the United States has over 141 GW of installed wind power capacity. In 2010, newly installed generating capacity was about half of the previous year due to various factors, including the 2008 financial crisis, and the Great Recession. In 2013, there was a 92% reduction in newly installed generating capacity compared to 2012, due to the late extension of the PTC (see image on the right). The graph at left ...

Looking for archive data?

Data from our Power Plant Operations Report show that U.S. wind generation in 2023 totaled 425,235 gigawatt-hours (GWh), 2.1% less than the 434,297 GWh generated in 2022. U.S. ...

In 2024, around 453 terawatt hours of wind electricity were generated in the United States. Wind has advanced to become the main source of renewable power generation in the U.S., ...



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Wind installations in the United States produced 45.9 terawatthours (TWh) of electricity in March 2024, compared with 38.4 TWh from coal-fired power plants. In April 2024, coal-fired ...

Global solar generation grew by a record 31% in the first half of the year, while wind generation grew by 7.7%, according to the report by the energy think tank Ember, which was ...

The repository contains wind speeds and generation based on three different meteorological models: ERA5, MERRA2, and HRRR. Data are publicly accessible in simple csv files.

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