



Data on annual wind power generation hours

The data can be used to evaluate modeling strategies, explore trends in wind speed and energy generation, and can be paired with other data for further investigations.

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.

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.

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., ...

The world's wind power sector recorded strong growth in the first half of 2025, with global installations rising by 64% compared to the same period of 2024. A total of 72,2 gigawatts ...

The PLUSWIND data repository, developed by the authors and described herein, addresses this data gap by providing fully processed, easy to use, hourly wind speed and modeled generation data for ...

Looking for archive data?

Barnstable, Massachusetts: hourly, daily, weekly, monthly, yearly production and consumption of a 100-kW turbine since June 1, 2011 (100% daily generation would be 2,400 kWh)

Global onshore and offshore wind generation potential at 90m turbine hub heights could provide 872,000 TWh of electricity annually, 9 over 30 times the 27,081 TWh used globally in 2023. 10 Continental ...

Total annual U.S. electricity generation from wind energy increased from about 6 billion kilowatthours (kWh) in 2000 to about 434 billion kWh in 2022. In 2022, wind turbines were the source ...



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