

# Actual power generation of wind farms over the years



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### 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



### [Power Generated By One Wind Turbine: Output, Cost.](#)

Learn how much power generated by one wind turbine really is, from daily and yearly output to homes powered and real U.S. wind energy facts.

### Wind Farms through the Years

Data provided by the EIA. The number of homes powered is estimated through conversion factors provided by the EIA. Committed to Restoring America's Energy Dominance.



### Wind power in the United States

Variations in wind speed result in variations in power output from wind farms, which poses difficulties incorporating wind power into an integrated power system.



### [WWEA Annual Report 2023: Record Year for Windpower](#)

Countries like Denmark, leading with 56% of its



## The Wind Power

Our database provides direct and immediate access to information about regions, countries, manufacturers, types and numbers of turbines, hub heights, MWs/GWs, developers, operators,



### [PLUSWIND: A new hourly wind speed and generation database for US wind](#)

The repository (called PLUSWIND) is publicly available and contains hourly wind speed and generation estimates covering 2018 - 2021 for existing wind plants located within the contiguous



electricity generated from wind, alongside Germany, the Netherlands, Portugal, the UK, and Uruguay, demonstrate the potential and



### [U.S. wind generation hit record in April 2024, exceeding coal-fired](#)

Installed wind power generating capacity has increased substantially in the United States over the last 25 years, growing from 2.4 gigawatts (GW) in 2000 to 150.1 GW in April 2024.



### [A database of hourly wind speed and modeled generation for US wind](#)

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.

## Wind power generation, 2025

This dataset contains yearly electricity generation, capacity, emissions, import and demand data for over 200 geographies. You can find more about Ember's methodology in this



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