

Wind power data of wind turbine generator



Overview

The Wind Power Technology Dataset is a comprehensive collection of data related to wind energy generation technology. This dataset encompasses a wide range of information, including meteorological data, turbine specifications, power output records, and environmental factors. This includes both onshore and offshore wind sources. Data source: Ember (2026); Energy Institute - Statistical Review of World Energy (2025) – Learn more about this data Measured in terawatt-hours. Ember (2026);. Copernicus houses the remote sensing data from several satellites and a global network of thousands of land, air, and marine-based sensors that create the most detailed pictures of Earth. The vast. The wind energy researchers, scientists, and analysts working within NLR's National Wind Technology Center and wind energy program maintain open-source data sets and develop multifidelity predictive modeling and simulation capabilities to benefit the wind energy industry. Created using Nalu-Wind. Bonn (WWEA) – 2025 marked a watershed moment for the global wind power sector. According to preliminary statistics released by the World Wind Energy Association (WWEA), the world added 169'014 Megawatts (MW) of new wind capacity – a 35% increase over 2024 – bringing total global installations to. The Global Wind Atlas is a free, web-based application developed to help policymakers, planners, and investors identify high-wind areas for wind power generation virtually anywhere in the world, and then perform preliminary calculations.



Article Content

Electricity generation from wind

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 generation

Alstom ECO 122/2700

[datasheet](#) • [power curve](#) • [photos](#) • [brochures](#) • [models](#) The wind turbine ECO 122/2700 is a production of Alstom, a manufacturer from France. Alstom is no

[WINDEXchange](#) | [Department of Energy](#)

Site Selection There are many factors to consider when choosing a location for a wind turbine or wind farm, such as (but not limited to) the wind resource potential

Open Data | IEA Wind TCP

The Master Data Register of Wind Turbines is a national database which contains all Danish power producing wind turbines > 6 kW. The Register has information on location, technical specifications

Global Statistics

In 2025, wind turbines generated enough power to cover more than 11% of worldwide demand, surpassing nuclear energy and closing in on other fossil sources. This milestone reflects not

Wind Power Database · IEEE Task Force on Data Sharing in Energy

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

Wind Power by Country 2026

Data and analysis covering each country's ability to generate electricity using the wind, such as via turbines or windmills. Also includes information on each

Wind power generation, 2025

This dataset contains yearly electricity generation, capacity, emissions, import and demand data for over 200 geographies. You can find

Global Wind Atlas

The Global Wind Atlas is a free, web-based application developed to help policymakers, planners, and investors identify high-wind areas for wind power

Wind turbines database

view wind turbine AAER A2000-84 2,00 MW view wind turbine Acciona AW-60/1300 1,30 MW view wind turbine

How Do Wind Turbines Work?

How Do Wind Turbines Work? Wind turbines work on a simple principle: instead of using electricity to make wind—like a fan—wind turbines

Global Wind Power Tracker

The Global Wind Power Tracker is composed of worldwide facility-level data for utility-scale onshore and offshore wind power facilities (10 MW+).

Latest wind energy data for Europe: Autumn 2025 -

This autumn update outlines the latest data for wind energy in Europe and our expectations for the rest of the decade. Europe now has 291 GW of wind

A global dataset of onshore wind turbines with site-specific ...

The dataset includes geographic coordinates, key technical specifications, and site-specific environmental characteristics for each wind turbine.

Heli 4KW 48V Off-Grid Wind Turbine Wind Generator

Making an informed and responsible choice is essential for investing in a reliable, efficient, and long-lasting wind power solution. Technical data Off-grid: Generator: 3-phase three-phase permanent

Wind Turbine Manufacturer | Wind and Solar

Providing an all-encompassing solution to wind-energy projects in the form of Wind Turbine Generators (WTGs) that are infused with state-of-the-art technology from their blades, nacelle, towers and

Wind Energy | Department of Energy

Wind Energy Wind power or wind energy is a form of renewable energy that harnesses the power of the wind to generate electricity. It involves using

Wind-Turbine-Dataset | IEEE DataPort

The Wind Power Technology Dataset is a comprehensive collection of data related to wind energy generation technology. This dataset encompasses a wide range of information,

Vestas V162/6.2MW

Vestas V162/6.2MW - Manufacturers and turbines - Online access - The Wind Power General data Manufacturer: Vestas (Danemark) Model: V162/6.2MW Product page Rated power:

Advantages and Challenges of Wind Energy

Wind turbines harness energy from the wind using mechanical power to spin a generator and create electricity. Not only is wind an abundant and inexhaustible

Wind Turbine Cost Guide 2025: Complete Pricing

Comprehensive wind turbine cost analysis for 2025. From residential (\$10K-\$175K) to commercial (\$2.6M-\$4M) turbines. Includes installation,

Wind turbine

The wind turbines are generally of conventional horizontal-axis, three-bladed design and generate power to feed electrical grids, but they also serve the

Wind energy database

It contains data about wind farms, turbines, manufacturers, developers, operators, owners and also pictures and cartographical data.

Wind Data and Tools | Wind Research | NLR

Spanning 20 years and ideal for assessing wind power and meteorological variables at heights relevant for wind turbines, the data are accessible via download, API, and visualization tools.

Wind energy in Europe: 2025 Statistics and the outlook for 2026-2030 ...

Europe installed 19.1 GW of new wind power capacity in 2025. The EU-27 installed 15.1 GW of this. 90% of the new wind capacity built in Europe last year was onshore. 2 GW of new

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