

European Solar and Energy Storage Solutions

Wind turbine generator power data



Overview

In 2016, USGS, LBNL, and the American Wind Energy Association (AWEA, the predecessor of ACP) began collaborating on development of the USWTDB. Their goal was to create a joint product that would be more comprehensive and accurate than their individual wind turbine data sets. Federal agencies began using.

The USWTDB Viewer, created by the USGS Energy Resources Program, lets you visualize, inspect, interact, and download the most current USWTDB through a dynamic web application. The USWTDB Viewer replaces.

The latest release includes data on 74,833 turbines covering 45 states (plus Guam and PR). The most recent turbines added to the USWTDB became.

What is the wind power technology dataset?

1 rating - Please login to submit your rating. 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.

Why do we need a wind farm dataset?

This can assist in identifying suitable locations for future wind farm installations. Wind energy is a vital component of the transition to clean, sustainable energy sources. This dataset supports advancements in wind power technology, aiding in the development of efficient wind turbines and improved energy grid integration.

What is a wind turbine data archive?

The purpose of this archive is to compile public wind turbine data in one place for easy access. There is a focus on providing tabular power (and when available thrust) curve data in an accessible (.csv) format along with documentation. Disclaimer: This archive is in no means an endorsement of specific turbine models or individual companies.

What is a wind turbine website?

A dynamic web application for accessing U.S. wind turbine locations, corresponding facility information, and turbine technical specifications.

How are wind turbine records collected & compiled?

Wind turbine records are collected and compiled from various public and private sources, digitized or position-verified from aerial imagery, and quality checked. Technical specifications for turbines are obtained directly from project developers and turbine manufacturers, or they are based on data obtained from public sources.

How many wind turbines are in the uswtodb?

The USWTDB combines a 2014 USGS data set (48,956 wind turbines, including decommissioned and duplicate turbines) with a 2017 LBNL data set (43,827 wind turbines) and includes regular updates from ACP's WindIQ as well as the Federal Aviation Administration (FAA) Digital Obstacle File (DOF) and Obstacle Evaluation Airport Airspace Analysis (OE-AAA).

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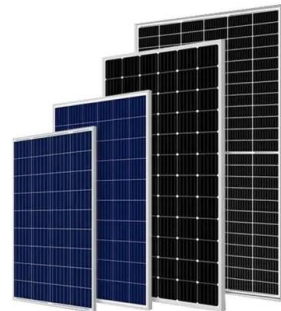


Wind Energy Factsheet , Center for Sustainable Systems

The capacity factor of a wind turbine is its average power output divided by its maximum power capability. 11 Capacity factor of onshore wind turbines in the U.S. ranges from 9% to 53% and ...

NREL Turbine Archive -- NREL/turbine-models power curve ...

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Interactive data & maps

Displaying data from Wind farm density offshore

visual scale over the range of used values Wind farm density onshore visual scale over the range of used values Wind Power Capacity Explore the Installations tool to find out more ...



A collection and categorization of open-source wind and wind power

2.3 Wind power and turbine-level data. As stated above, we split the wind power data into three disjoint groups (see Figure 1): Two of them contain turbine-level data that cover ...

Fault Prediction and Diagnosis of Wind Turbine Generators Using SCADA Data

The fast-growing wind power industry faces the challenge of reducing operation and maintenance (O&M) costs for wind power plants. Predictive maintenance is essential to ...



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