Annual power generation in three types of wind zones

Overview

Using three different sources of data and turbine power calculated for more than 126,000 sites in the United States, the toolkit provides powerful information for the next generation of wind energy development.

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Independent Engineering Report

The final wind power generation results were evaluated for reasonableness and compared to historical wind generation. The net capacity factor (NCF) of the modeled generation

Wind Resource Data, Tools, and Maps , Geospatial Data Science , NLR

Find and download resource map images and data for North America, the contiguous United States, Canada, Mexico, and Central America. View an interactive map or download

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Areas where the average wind speed at an altitude of 50 m is more than 6.9 m/s, have a good potential for wind power generation and areas with an average wind speed of 6.2-6.9 m/s at an

New York Wind Energy Guide for Local Decision Makers: Wind

This Wind Energy Guide is meant to provide the reader with an introductory understanding of wind energy technologies and the considerations that affect wind power siting, permitting, and economics.

Wind Energy Factsheet

Wind could provide 20% of U.S. electricity by 2030 and 35% by 2050. 11 Five of the eight Great Lakes states have offshore wind energy potentials that exceed their annual electricity demand (MI, WI, NY,

Where wind power is harnessed

Good places for wind turbines are where the annual average wind speed is at least 9 miles per hour (mph)-or 4.0 meters per second (m/s)-for small wind turbines and 13 mph (5.8 m/s)

Maps and Data , Department of Energy

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MSCE in Energy Infrastructure

Wind energy production is about 12% of the US total and slowly increasing as of 2024. The percentages are based on the MWh of total generation. Total US annual generation by all fuel types was about

WWEA Annual Report 2023: Record Year for Windpower

More than ten countries now have a wind power share of more than 20%, led by Denmark, which generates an astonishing 56% of its electricity from wind. Germany, the

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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