

Wind power generation benchmark in the same region



Overview

Tap on the map to set a marker. 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. All data and visualizations on Our World in Data rely on data sourced from one or several original data providers. Preparing this original data involves several processing steps. Depending on the data, this can include standardizing country names and world region definitions, converting units. Wind plant performance—how much electricity a wind plant generates compared with its maximum possible generation—depends almost entirely on the availability of wind resources, which vary depending on both the time of year and the geographic region. The performance of a power plant is often. As of 2020, large-scale, commercial wind energy development in the contiguous United States has been concentrated in areas with consistent, high wind speeds. Output from 154 gigawatts of installed wind now makes up 10. Texas continues to have the most wind power, accounting for over a quarter of national capacity, while Iowa has the highest share of in-state generation from wind.

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Wind Energy Growth , Energy Markets & Planning

Explore the tabs above to see interactive maps and charts of annual growth, cumulative installations, and share of generation by state and region. For more information on land-based wind energy from ...

Wind energy development varies by region

As of 2020, large-scale, commercial wind energy development in the contiguous United States has been concentrated in areas with consistent, high wind speeds. Wind turbines are most ...



U.S. wind generation falls into regional patterns by season

Because of geographic differences in wind resource potential, wind generation varies across regions. We grouped states into regional groups that have similar wind capacity factor patterns.

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 generation virtually anywhere in the world, and then ...



Wind power performance assessment at high plateau region: A case ...

To overcome this challenge while considering Qinghai-Tibet plateau is one of most representative high altitude regions in the world, we recently developed a 22 MW wind farm at an ...

Global wind energy production by region, Statista

Asia recorded the largest worldwide wind energy production in 2023, at nearly 1,007 terawatt-hours. This was followed by Europe, where the output of wind energy surpassed 578 ...



The Wind Power

The Wind Power is a comprehensive database of detailed raw statistics on the rapidly growing sphere of wind energy

and its supporting markets.



Identification of reliable locations for wind power generation through

We identified regions with high power densities, low seasonal variability, and limited weather fluctuations that favor wind power generation, such as the American Midwest, Australia, the



Maps and Data , Department of Energy

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 ...

Wind energy generation by region

Wind energy generation by region

Measured in terawatt-hours. Includes both onshore and offshore wind sources.



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