My country s potential wind power generation capacity

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. 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. China is the largest producer of wind power in the world, having generated 466. 5 terawatt hours (TWh) of wind power in 2021, more than 29% of the global total of 1,596. The worldwide total cumulative installed electricity generation capacity from wind power has increased rapidly since the start of the third millennium, and as of the end of 2023, it amounts to over 1000 GW. Since 2010, more than half of all new wind power was added outside the traditional. Wind energy, an integral part of California's electricity portfolio, is needed to help meet the state's Renewables Portfolio Standard, which requires utilities to procure 60 percent of retail sales from renewable sources by 2030.

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Wind power generation, 2025

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

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Wind Energy in California

The cost of producing wind energy has decreased nearly fourfold since 1980, according to the Electric Power Research Institute. Wind energy is the country's

Maps and Data , Department of Energy

Even rural homeowners looking to install residential wind energy on their land can use wind resource maps to help estimate if there is enough wind where they live

Global Wind Atlas

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

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Wind power by country

Wind power is used on a commercial basis in more than half of all the countries of the world. Denmark produced 58% of its electricity from wind in 2023, a

Global Wind Atlas

It provides data and resources for assessing wind power generation areas in various countries and regions around the world. It caters to both individual users and organizations, including policymakers,

for wind power generation virtually anywhere in the world, and then

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Summary Tables

Offshore Wind Farm Operational Capacity by Country/Area and Year in Megawatts (MW) February 2026

Wind Power by Country 2026

Also includes information on each country's actual yearly production

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[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.

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