

Solar Energy South Africa

Countries with wind power generation



Overview

In 2023, China was the country with the largest energy production from wind, with some 885 terawatt hours. The United States ranked second by a wide margin, with roughly half of China's production. Which countries generate the most electricity from wind?

Germany, the Netherlands, Portugal, the UK and Uruguay are among the countries that generate around a third or more of their electricity from wind. These countries demonstrate that the world as a whole can achieve a 40-50% share of wind power in total electricity generation, as outlined by the WWEA in a long-term scenario.

Which countries use wind power in 2022?

China alone had over 40% of the world's capacity by 2022. Wind power is used on a commercial basis in more than half of all the countries of the world. Denmark produced 55% of its electricity from wind in 2022, a larger share than any other country.

How much wind power does the world need?

The world's installed wind power capacity now meets around 10% of global electricity demand - another important milestone. 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.

Which country has the most wind turbines in the world?

The new record was only broken thanks to China, which accounts for 65% of the global market for new wind turbines - up from 58% in 2022. Never before has a single country played such a dominant role in global wind power development as China in the year 2023.

Which country produces the most wind energy in Europe?

Germany, with a recorded wind energy production of 132.1 MWh, remained

one of Europe's front-runners in wind power generation and took the third place. The United Kingdom secured the fourth spot with 75.4 MWh, continuing to show Europe's persistent efforts in harnessing wind energy.

Which countries rely more on offshore wind?

The UK is the third European country on the list, relying more on offshore wind than other countries. Six of the 10 highest-capacity offshore wind projects in the world lie in UK waters, mostly on its North Sea coast. The Hornsea One wind farm is currently the world's largest wind farm, with a generation capacity of 1.2GW.

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Electricity Mix

Some countries get over 90% of their electricity from nuclear or renewables -- Sweden, Norway, France, Paraguay, Iceland, and Nepal, among others. Nearly all these countries have one thing in common: they get a lot of electricity from ...

Global Electricity Review 2023

Wind and solar are slowing the rise in power sector emissions. If all the electricity from wind and solar instead came from fossil generation, power sector emissions would have been 20% higher in 2022. The growth alone in ...



The top 10 countries with the most wind energy capacity: ...

China continues to dominate wind power generation with 466.5 MWh, followed by the United States at 341.4 MWh, and Germany at 132.1 MWh. Denmark, while ranking 15th in total wind power generation, leads the world in terms of the ...

ERA5 derived time series of European country-aggregate electricity

Description. The ERA5 reanalysis data

(1979-2018) has been used to calculate the three-hourly country aggregated wind and solar power generation for 28 European countries based on a ...



2MW / 5MWh
Customizable

WWEA Annual Report 2023: Record Year for ...

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 Netherlands, Portugal, the UK and Uruguay are ...

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