

## European Solar and Energy Storage Solutions

# Installed capacity of wind power generation



## Overview

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The world installed 117 gigawatts of new wind power capacity in 2023, a 50% increase from the year before, making it the best year for new wind projects on record, according to a new report by the .

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Cumulative installed wind energy capacity including both onshore and offshore wind sources, measured in gigawatts (GW).

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.

The cumulative capacity of installed wind power worldwide amounted to approximately 1,021 gigawatts in 2023. Onshore wind power accounted for the majority of total wind power.

Wind power generation. Wind energy generation, measured in gigawatt-hours (GWh) versus cumulative installed wind energy capacity, measured in gigawatts (GW). Data includes energy from both onshore and offshore wind sources. How much wind power is installed in 2022?

Globally, 77.6 GW of new wind power capacity was connected to power grids in 2022, bringing total installed wind capacity to 906 GW<sup>1</sup>, a growth of 9% compared with 2021. The world's top five markets for new installations in 2022 were: Altogether, they made up 71% of global installations last year, collectively 3.7% lower than 2021.

How much wind power does the world need?

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

How many MW of wind is installed in 2021?

The U.S. wind industry installed 13,413 megawatts (MW) of new wind capacity in 2021, bringing the cumulative total to 135,886 MW. This is the second-highest amount of wind capacity installed in one year (behind 2020), and represents \$20 billion of investment.

How many wind farms are there in 2022?

In 2022, of the total 900 GW of wind capacity installed, 93% was in onshore systems, with the remaining 7% in offshore wind farms. Onshore wind is a developed technology, present in 115 countries around the world, while offshore wind is at the early stage of expansion, with capacity present in just 20 countries.

How much wind energy does China have in 2022?

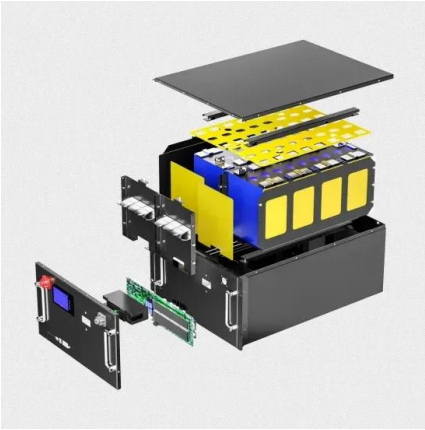
As of 2022, China had cumulatively installed over 395 gigawatts of wind energy, in comparison to 122.2 gigawatts of wind energy installed in the United States. Worldwide, cumulative capacity of installed wind energy reached 906 gigawatts in 2022, a generous increase over the last decades.

How much wind power is there in 2023?

The cumulative capacity of installed wind power worldwide amounted to approximately 1,021 gigawatts in 2023. Onshore wind power accounted for the majority of total wind power capacity, at about 946 gigawatts that year. Which country has the largest wind market?

## Installed capacity of wind power generation

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### Installed solar energy capacity

The renewable power capacity data represents the maximum net generating capacity of power plants and other installations that use renewable energy sources to produce electricity. For most countries and technologies, ...

### Renewable capacity statistics 2024

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### Wind energy generation vs. installed capacity

Wind power generation. Wind energy generation, measured in gigawatt-hours (GWh) versus cumulative installed wind energy capacity, measured in gigawatts (GW). Data includes energy from both onshore and offshore wind sources.

### Global Wind Report 2023

Globally, 77.6 GW of new wind power capacity was connected to power grids in 2022, bringing

total installed wind capacity to 906 GW1, a growth of 9% compared with 2021. The world's top five markets for new installations in 2022 ...



## WWEA Annual Report 2023: Record Year for ...

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## Wind energy in Spain

In 2022, 1,640 MW of wind power were installed, a relevant figure, but well below the 4 GW per year that would be necessary to be installed in 2030 in order to reach the wind goal of 62 GW contemplated in the proposal of the National ...



## Wind Market Reports: 2022 Edition , Department of ...

The U.S. wind industry installed 13,413 megawatts (MW) of new wind capacity in 2021, bringing the cumulative total to 135,886 MW. This is the second-highest amount of wind capacity installed in one year (behind 2020), and represents ...



## Wind power by country

Share of electricity production from wind, 2023  
 [1] Global map of wind speed at 100 m above surface level [2]. The worldwide total cumulative installed electricity generation capacity from wind power has increased rapidly since the start of ...



## China continues to lead the world in wind and solar, ...

China added almost twice as much utility-scale solar and wind power capacity in 2023 than in any other year. China could easily reach 1,200 GW of installed wind and solar capacity by the end of 2024, China still ...

## Wind Power Market Size, Share, Trends, Growth ...

The cumulative installed capacity of the wind power market was 1,024 gigawatts (GW) in 2023. The wind power market research report provides a clear overview and detailed insight into the market. Historical and forecast ...



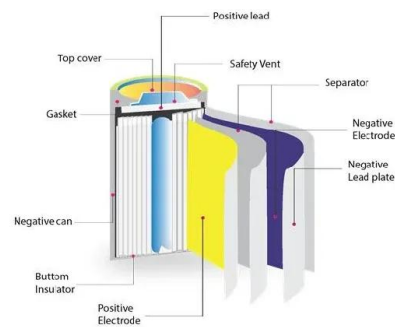
## China's total installed capacity of wind, photovoltaic power generation

Specifically, the installed capacity of wind power generation reached 380 million kW, while that of photovoltaic power generation amounted to 440 million kW. China has ...



## China continues to lead the world in wind and solar, with twice as ...

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