

Global annual wind power generation



Overview

According to preliminary statistics published today by the World Wind Energy Association, global wind power capacity has now reached 1'173'581 Megawatt – well below the estimates published by WWEA in autumn 2024. • Brazil becomes second largest market and joins top 5 wind power nations The full report as of 23 April 2025 can be downloaded here as PDF file Bonn (WWEA) – In 2024, new wind turbine installations fell far short of expectations, reaching 121'305 Megawatt, slightly less than in 2023, when 121'465. Annual electricity generation from wind is measured in terawatt-hours (TWh) per year. This includes both onshore and offshore wind sources. Data source: Ember (2026); Energy Institute - Statistical Review of World Energy (2025) – Learn more about this data Measured in terawatt-hours. 3% in 2024, a step change from the 2. The average pace of electricity demand growth from 2010 to 2023 was 2. Electrification picked up across sectors, raising. The Global Wind Report -2025 represented by Global Wind Energy Council (GWEC) gives an overview on the wind energy industry in 2024. Compared to 2023, wind power production increased by 11% bringing the total installed capacity to 1,136 GW. With 117 GW of new installations worldwide 2024 marked.

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Global Statistics

The world's installed wind power capacity now meets well over 10% of global electricity demand - and much more than nuclear power. More than 30 countries now have a share of wind ...

Wind Power Generation

Global wind power capacity forecast (GW) from 2022-2030 split between onshore and offshore generation. Additional charts include the total capacity forecast by country and 2030 global market ...



GLOBAL WIND ENERGY COUNCIL

On the demand side, the fragmentation of global trade and investment regimes will create market inefficiencies by restricting the ability of developers and manufacturers in trade-isolated regions to ...

GLOBAL WIND REPORT 2025:

China accounts for 70% on new

...

Onshore wind with 109 GW connected to the grid accounted for about 83% of new installations, reaching a record-high. In contrast, offshore wind capacity additions reached just 8 GW--26% lower than the ...



Wind Power by Country 2026

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 1,596.4 TWh produced during the year.

Wind Energy Factsheet

Global wind additions reached a record 117 GW in 2023. 7 In 2024, onshore installations surpassed 100 GW for the second consecutive year, while the U.S. experienced a slowdown. Offshore additions ...



Global wind power market

Find up-to-date statistics and facts on the global wind power market.



Renewable energy statistics 2025

Renewable energy statistics 2025 provides datasets on power-generation capacity for 2015-2024, actual power generation for 2015-2023 and renewable energy balances for over 150 countries and areas for ...



Wind Power by Country 2026

China is the largest producer of wind power in the world, having ...

Electricity - Global Energy Review 2025 - Analysis

Electricity generation Clean energy accounted for over 80% of total growth

in electricity generation in 2024 Global electricity generation grew by over 1 200 TWh in 2024. Mirroring the rise in electricity ...



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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