

Wind power equipment capacity and power generation



Overview

With about 100 GW added during 2021, mostly in China and the United States, global installed wind power capacity exceeded 800 GW. Data includes energy from both onshore and offshore wind sources. Data source: Energy Institute - Statistical Review of World Energy (2025); IRENA (2025) - Learn. Wind power is the use of wind energy to generate useful work. Today, wind power is generated almost. Total annual U. utility-scale electricity generation. High wind speeds.

- Total capacity exceeds 1'174 Gigawatt,
- 121 Gigawatt added in 2024, slightly less than the last year
- Dramatic 18% decline outside China
- Annual growth rate falls from 13,0% to 11,5%
- China installs 87 Gigawatt, 72% of new global capacity
- Brazil becomes second largest market and joins top 5.

This data shows the relative US electricity generation by fuel type over the last 6 years.

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Wind Energy , Department of Energy

Wind power is the nation's largest source of renewable energy, with more than 150 gigawatts of wind energy installed across 42 U.S. States and Puerto Rico. These projects generate ...

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MSCE in Energy Infrastructure

The American Wind Energy Association provided a set of definitions that are relevant. An example is "Capacity (MW). Given the intermittent electricity generation by wind turbines, this term describes the ...



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Global Wind-Power Generation Capacity in the Context of Climate

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As wind power becomes a primary electricity source, such low output could lead to shortages in energy supply within the power system, triggering large-scale power outages. This issue ...

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Wind Energy Factsheet

Global wind capacity increased 11% annually over the last decade, reaching 1,136 GW in 2024. China led in new and cumulative capacity, followed by the U.S. and Germany. 21

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With about 100 GW added during 2021, mostly in China and the United States, global installed wind power capacity exceeded 800 GW. 32 countries generated more than a tenth of their electricity from wind ...

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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 ...

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Nominal Capacity
280Ah
Nominal Energy
50kW/100kWh
IP Grade
IP54



Wind Energy Factsheet

Annual global onshore wind installations surpassed 100 GW for the first time in 2023, while the U.S. experienced a slowdown. 10.8 GW of offshore wind

capacity was added worldwide, a 24% increase ...

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Wind energy generation vs. installed capacity, 2024

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 ...

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Electricity generation from wind

In 2022, wind turbines were the source of about 10.3% of total U.S. utility-scale electricity generation. Utility scale includes facilities with at least one megawatt (1,000 kilowatts) of electricity ...

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