Wind power generation statistics

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Installation, Manufacturing, and Cost

WWEA Annual Report 2023: Record Year for Windpower

Wind power consumption per capita. Using the substitution method. Measured in ...

Figures are based on gross generation and do not account for cross-border ...

Annual change in wind energy generation - Wind power generation, 2023 - Our ...

Ember (2024); Energy Institute - Statistical Review of World Energy (2024) - with ...

Primary energy data can be quantified using two different methodologies: (1) "Direct" ...

Figures are based on gross primary hydroelectric generation and do not ...

Charles-de-Gaulle-Str. 5, 53113 Bonn, Germany

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In 2022 wind electricity generation increased by a record 265 TWh (up 14%), reaching more than 2 100 TWh. This was the second highest growth among all renewable power technologies, behind solar PV. However, to get on track with the Net Zero Emissions by 2050 Scenario, which envisages approximately 7 400 TWh of wind electricity generation in 2030, the average annual generation growth rate needs to increase to about 17%. Achieving this will require increasing annual capacity additions from about 75 GW in 2022 to 350 GW in 2030. Far greater policy and private-sector efforts are needed to achieve this level of capacity growth, with the most important areas for improvement being facilitating permitting for onshore wind and cost reductions for offshore wind.

Countries and regions making notable progress to advance wind electricity include:

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Web: https://kary.com.pl/contact-us/
Email: energystorage2000@gmail.com

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WhatsApp: 8613816583346