



Analysis of the current situation of wind power generation



Overview

Global wind power capacity reached 906 GW by mid-2023, with China, the United States, and Germany leading in installed capacity. Here's a quick breakdown of recent developments: Global Wind Power Growth Accelerates in the First Half of 2025. The report can be downloaded in pdf format. The world's wind power sector recorded strong growth in the first half of 2025, with global installations rising by 64% compared to the same period of 2024. In 2023, the installed capacity exceeded 1 TW for the first time. 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. Global market growth. The global Q1 2025 wind installations more than doubled compared to the same period last year, but regulatory uncertainty drove turbine orders down 50% in the first half of 2025—reaching their lowest level since 2020. The latest quarterly analysis from Wood Mackenzie and the American Clean Power Association.



Article Content

Global Wind-Power Generation Capacity in the Context of Climate ...

This issue calls for critical attention when establishing power systems with a high share of renewable energy sources. The conclusions provide a basis for analyzing power supply risks and ...

The US wind industry's 5-year outlook is now a total ...

US wind installations will rebound in 2025, but the concern lies in the sharply downgraded 5-year outlook. We'll give you one guess why.

The future of wind energy in 2025: Key trends and ...

Wind energy continues to play a central role in the global transition to renewable sources. With technological advancements, new energy storage ...

US Wind Energy Monitor | Q2 2025 | ACP

The U.S. Wind Energy Monitor is an indispensable resource for industry players who refuse to be caught off-guard by rapid changes. With our expert analysis at ...

WWEA Half-year Report 2025: Global Wind Power Growth ...

Given the clear economic, social, and environmental advantages of wind power as a cornerstone of a renewable energy system, the main obstacles to progress today come not from ...

Recent Development and Future Perspective of Wind Power ...

Here, the most recent developments and future perspectives of wind power generation in the scientific literature are briefly reviewed. Five decisive topics for the future development of onshore ...

Global wind power market

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

Wind power generation, 2025

This dataset contains yearly electricity generation, capacity, emissions, import and demand data for over 200 geographies. You can find ...

Wind Power Generation Systems: Current Trends, Challenges, and ...

Summary: Wind power generation systems have become a cornerstone of global renewable energy strategies. This article explores the latest advancements, market trends, and challenges in wind ...

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