



Analysis of wind power generation industry prospects





Overview

Asia-Pacific suppliers scale production quickly, European utilities press ahead with deep-water projects, and North American developers prioritize grid-forming functionality, collectively tightening the link between generator technology and power-system resilience. Major developments across Asia, Europe, and North America, combined with increasing investment in offshore wind, especially in Europe, will enhance the industry. As per WWEA 2024 assessment, the contribution of wind energy accounts for over 10 percent of the world's power supply. 21 billion in 2025, and is expected to reach USD 33. 27% during the forecast period (2025-2030). This momentum reflects the sector's shift from induction-based machines toward permanent-magnet. The wind power industry is projected to grow from 166. 72 billion in 2030 at a compound annual growth. As the world moves toward NetZero goals, ERSG looks to the latest insights from the GWEC Global Wind Report 2025 to better understand current trends and the future of renewable energy.



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Wind Turbine Market Research Report

The global Wind Turbine Market size was valued at USD 143.69 billion in 2024 and is expected to grow at a CAGR of 7.7% from 2025 to 2034.

Wind Power Market Outlook 2026-2035

Innovations along with large and extra efficient mills, floating offshore wind era, and AI-driven predictive preservation are enhancing power output and lowering prices, leading to Wind Power Market growth.



[Wind Energy Market Research and Forecast 2026 to 2035](#)

Major trends in the forecast period include increasing adoption of high-capacity wind turbine platforms, rising development of offshore wind projects, growing use of advanced composite blades, expansion of hybrid wind ...

Wind Turbine Generator Market Size, Share, 2025-2030 Outlook

Wind Turbine Generator Market Analysis by Mordor Intelligence The Wind Turbine Generator Market size is estimated at USD 21.21 billion in 2025, and is expected to reach USD 33.04 billion by 2030, ...

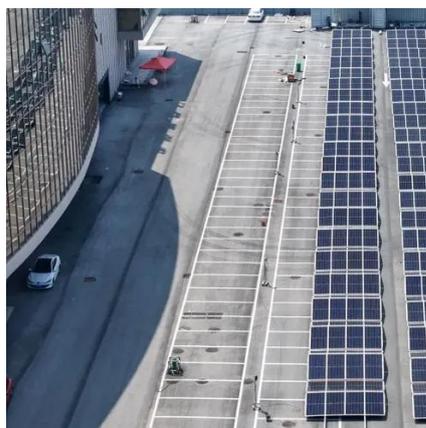


[Wind Energy Market Size, Growth Outlook 2025-2034](#)

The wind energy market size crossed USD 174.5 billion in 2024 and is expected to grow at a CAGR of over 11.1% from 2025 to 2034, driven by the growing adoption of off grid & distributed energy system.

[Wind Power Market Size, Share, Trends, Growth Report 2035](#)

Global Wind Power Market Overview To Get More Insights, Request A Free Sample Wind Power Market Trends Wind Power Market Segment Insights Figure 2: Wind Power Market by Turbine Capacity, 2021 & 2030 Wind Power Regional Insights Figure 3: Wind Power Market Share by Region 2021 Wind Power Key Market Players & Competitive Insights Wind Power Market Segmentation By Region, the study provides market insights into North America, Europe, Asia-Pacific, and the Rest of the World. North America Wind Power market accounted for USD 46.49 billion in 2021 and is expected to exhibit a significant CAGR growth during the study period. During the forecast period, it is expected that the industry will see a wide range of See more on marketresearchfuture polarismarketresearch



Wind Turbine Market Research Report - Forecast to 2034

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USD 143.69 billion in 2024 and is expected to grow at a CAGR of 7.7% from 2025 to 2034.



[Wind Power Market Size, Share, Trends, Growth Report 2035](#)

The residential segment leads in market share, while the commercial segment is witnessing the fastest growth due to heightened corporate sustainability initiatives. Government policies and rising energy demand are key ...

The Future of Wind Energy: Insights From the GWEC Global Wind ...

The GWEC Global Wind Report 2025 reviews the industry's 2024 performance and outlines the path to accelerated growth. It stresses the importance of sustained investment and innovation.



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- WATERPROOF OUTDOOR CABINET
- 42U/27U
- OUTDOOR BATTERY CABINET



GLOBAL OFFSHORE WIND REPORT 2025

In this next industrial revolution, countries that leverage their abundant wind resources to move fastest towards an electrified future will enhance their competitiveness and gain strategic advantage over their ...

[Wind Power Market Size And Share, Industry Report, 2030](#)

Based on location, the on-shore segment led the market with the largest revenue share of 75.52% in 2024. Based on application, the utility segment led the market with the largest revenue share of 83.5% in 2024.



Global Wind Energy Council

We provide authoritative research and analysis on the wind power industry to countries all over the world. We work with governments to give them transparent information about the benefits and potential of wind power, ...



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