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Global Wind Blade Composites Market Size study & Forecast, by Fiber Type, Resin Type, Blade Size, Application, and Regional Forecasts 2025-2035

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Abstracts

The Global Wind Blade Composites Market is valued at approximately USD 12.02 billion in 2024 and is poised to register an impressive compound annual growth rate (CAGR) of 10.50% over the forecast period from 2025 to 2035. Wind blade composites, which primarily include high-strength fiber reinforcements and resin matrices, have emerged as indispensable materials in the production of lightweight and durable turbine blades. As the renewable energy industry advances with heightened urgency and ambition, these composite materials have become synonymous with innovation and performance. Their remarkable strength-to-weight ratio, corrosion resistance, and fatigue durability make them a cornerstone in meeting the evolving demands of both onshore and offshore wind energy projects.

Fueled by a wave of global decarbonization initiatives and a substantial pivot toward sustainable energy infrastructures, the demand for advanced wind blade composites has surged dramatically. Technological breakthroughs in composite engineering—especially the rise of longer, lighter blades for enhanced energy capture—are accelerating adoption rates. Glass fiber continues to dominate due to its cost-efficiency and reliable performance, while carbon fiber is steadily gaining ground in premium offshore applications where weight reduction is paramount. Concurrently, epoxy and polyurethane resin systems are being continually refined to support structural integrity over extended lifespans, even under harsh marine conditions. With governments and corporations investing heavily in green energy portfolios, the composite segment is positioned as a catalyst for wind power scalability.

Geographically, North America is anticipated to assert dominance in the global market by 2025, driven by robust infrastructure investment, favorable energy policies, and the

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proliferation of large-scale wind projects across the U.S. and Canada. Europe, with its ambitious carbon neutrality targets and expansive offshore wind deployment, remains a frontrunner in composite utilization, particularly in countries like Germany, Denmark, and the UK. Meanwhile, Asia-Pacific is forecasted to witness the fastest growth over the next decade. China's aggressive renewable energy agenda, alongside India's burgeoning wind pipeline and Japan's investment in floating wind technology, are transforming the region into a vibrant hub for wind composite manufacturing and application. These dynamics are bolstered by supportive regulations and rising private capital infusion into regional supply chains.

Major market player included in this report are:

Halliburton Company

Croda International Plc.

Schlumberger Limited

Chevron Phillips Chemical Company

BASF SE

Impact Fluid Solutions

Baker Hughes Company

Aubin Group

Trican Well Service Ltd.

M&D Industries Of Louisiana, Inc.

Senvion S.A.

Vestas Wind Systems A/S

LM Wind Power

TPI Composites Inc.

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GE Renewable Energy

Global Wind Blade Composites Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025-2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

By Fiber Type:

Glass Fiber

Carbon Fiber

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Other Fiber Types

By Resin Type:

Epoxy

Polyurethane

Other Resin Types

By Blade Size:

Up to 50 Meters

Over 50 Meters

By Application:

Onshore

Offshore

By Region:

North America

U.S.

Canada

Europe

UK

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- Germany
- France
- Spain
- Italy
- Rest of Europe

Asia Pacific

- China
- India
- Japan
- Australia
- South Korea
- Rest of Asia Pacific

Latin America

- Brazil
- Mexico

Middle East & Africa

- UAE
- Saudi Arabia

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South Africa

Rest of Middle East & Africa

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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CHAPTER 10. COMPETITIVE INTELLIGENCE

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