

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

<https://marketpublishers.com/r/G9CB0220FDADEN.html>

Date: July 2025

Pages: 285

Price: US\$ 3,750.00 (Single User License)

ID: G9CB0220FDADEN

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

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.

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

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

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

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.

Contents

CHAPTER 1. GLOBAL WIND BLADE COMPOSITES MARKET REPORT SCOPE & METHODOLOGY

- 1.1. Research Objective
- 1.2. Research Methodology
 - 1.2.1. Forecast Model
 - 1.2.2. Desk Research
 - 1.2.3. Top Down and Bottom-Up Approach
- 1.3. Research Attributes
- 1.4. Scope of the Study
 - 1.4.1. Market Definition
 - 1.4.2. Market Segmentation
- 1.5. Research Assumption
 - 1.5.1. Inclusion & Exclusion
 - 1.5.2. Limitations
 - 1.5.3. Years Considered for the Study

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. CEO/CXO Standpoint
- 2.2. Strategic Insights
- 2.3. ESG Analysis
- 2.4. Key Findings

CHAPTER 3. GLOBAL WIND BLADE COMPOSITES MARKET FORCES ANALYSIS

- 3.1. Market Forces Shaping The Global Wind Blade Composites Market (2024–2035)
- 3.2. Drivers
 - 3.2.1. Rising global investments in renewable energy infrastructure
 - 3.2.2. Technological advancement in lightweight and longer blade manufacturing
- 3.3. Restraints
 - 3.3.1. High production and installation costs associated with advanced composites
 - 3.3.2. Recycling challenges and end-of-life blade disposal concerns
- 3.4. Opportunities
 - 3.4.1. Surge in offshore wind projects across Asia and Europe
 - 3.4.2. Emergence of next-gen composite materials such as thermoplastics

CHAPTER 4. GLOBAL WIND BLADE COMPOSITES INDUSTRY ANALYSIS

- 4.1. Porter's 5 Forces Model
 - 4.1.1. Bargaining Power of Buyer
 - 4.1.2. Bargaining Power of Supplier
 - 4.1.3. Threat of New Entrants
 - 4.1.4. Threat of Substitutes
 - 4.1.5. Competitive Rivalry
- 4.2. Porter's 5 Force Forecast Model (2024–2035)
- 4.3. PESTEL Analysis
 - 4.3.1. Political
 - 4.3.2. Economical
 - 4.3.3. Social
 - 4.3.4. Technological
 - 4.3.5. Environmental
 - 4.3.6. Legal
- 4.4. Top Investment Opportunities
- 4.5. Top Winning Strategies (2025)
- 4.6. Market Share Analysis (2024–2025)
- 4.7. Global Pricing Analysis and Trends 2025
- 4.8. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL WIND BLADE COMPOSITES MARKET SIZE & FORECASTS BY FIBER TYPE 2025–2035

- 5.1. Market Overview
- 5.2. Global Wind Blade Composites Market Performance – Potential Analysis (2025)
- 5.3. Glass Fiber
 - 5.3.1. Top Countries Breakdown Estimates & Forecasts, 2024–2035
 - 5.3.2. Market Size Analysis, by Region, 2025–2035
- 5.4. Carbon Fiber
 - 5.4.1. Top Countries Breakdown Estimates & Forecasts, 2024–2035
 - 5.4.2. Market Size Analysis, by Region, 2025–2035
- 5.5. Other Fiber Types
 - 5.5.1. Top Countries Breakdown Estimates & Forecasts, 2024–2035
 - 5.5.2. Market Size Analysis, by Region, 2025–2035

CHAPTER 6. GLOBAL WIND BLADE COMPOSITES MARKET SIZE & FORECASTS BY RESIN TYPE 2025–2035

- 6.1. Market Overview
- 6.2. Global Wind Blade Composites Market Performance – Potential Analysis (2025)
- 6.3. Epoxy
 - 6.3.1. Top Countries Breakdown Estimates & Forecasts, 2024–2035
 - 6.3.2. Market Size Analysis, by Region, 2025–2035
- 6.4. Polyurethane
 - 6.4.1. Top Countries Breakdown Estimates & Forecasts, 2024–2035
 - 6.4.2. Market Size Analysis, by Region, 2025–2035
- 6.5. Other Resin Types
 - 6.5.1. Top Countries Breakdown Estimates & Forecasts, 2024–2035
 - 6.5.2. Market Size Analysis, by Region, 2025–2035

CHAPTER 7. GLOBAL WIND BLADE COMPOSITES MARKET SIZE & FORECASTS BY BLADE SIZE 2025–2035

- 7.1. Market Overview
- 7.2. Up to 50 Meters
 - 7.2.1. Top Countries Breakdown Estimates & Forecasts, 2024–2035
 - 7.2.2. Market Size Analysis, by Region, 2025–2035
- 7.3. Over 50 Meters
 - 7.3.1. Top Countries Breakdown Estimates & Forecasts, 2024–2035
 - 7.3.2. Market Size Analysis, by Region, 2025–2035

CHAPTER 8. GLOBAL WIND BLADE COMPOSITES MARKET SIZE & FORECASTS BY APPLICATION 2025–2035

- 8.1. Market Overview
- 8.2. Onshore
 - 8.2.1. Top Countries Breakdown Estimates & Forecasts, 2024–2035
 - 8.2.2. Market Size Analysis, by Region, 2025–2035
- 8.3. Offshore
 - 8.3.1. Top Countries Breakdown Estimates & Forecasts, 2024–2035
 - 8.3.2. Market Size Analysis, by Region, 2025–2035

CHAPTER 9. GLOBAL WIND BLADE COMPOSITES MARKET SIZE & FORECASTS BY REGION 2025–2035

- 9.1. Wind Blade Composites Market, Regional Market Snapshot

- 9.2. Top Leading & Emerging Countries
- 9.3. North America Wind Blade Composites Market
 - 9.3.1. U.S.
 - 9.3.1.1. Fiber Type Breakdown
 - 9.3.1.2. Resin Type Breakdown
 - 9.3.1.3. Blade Size Breakdown
 - 9.3.1.4. Application Breakdown
 - 9.3.2. Canada
 - 9.3.2.1. Fiber Type Breakdown
 - 9.3.2.2. Resin Type Breakdown
 - 9.3.2.3. Blade Size Breakdown
 - 9.3.2.4. Application Breakdown
- 9.4. Europe Wind Blade Composites Market
 - 9.4.1. UK
 - 9.4.2. Germany
 - 9.4.3. France
 - 9.4.4. Spain
 - 9.4.5. Italy
 - 9.4.6. Rest of Europe
- 9.5. Asia Pacific Wind Blade Composites Market
 - 9.5.1. China
 - 9.5.2. India
 - 9.5.3. Japan
 - 9.5.4. Australia
 - 9.5.5. South Korea
 - 9.5.6. Rest of Asia Pacific
- 9.6. Latin America Wind Blade Composites Market
 - 9.6.1. Brazil
 - 9.6.2. Mexico
- 9.7. Middle East & Africa Wind Blade Composites Market
 - 9.7.1. UAE
 - 9.7.2. Saudi Arabia
 - 9.7.3. South Africa
 - 9.7.4. Rest of Middle East & Africa

CHAPTER 10. COMPETITIVE INTELLIGENCE

- 10.1. Top Market Strategies
- 10.2. Halliburton Company

- 10.2.1. Company Overview
- 10.2.2. Key Executives
- 10.2.3. Company Snapshot
- 10.2.4. Financial Performance (Subject to Data Availability)
- 10.2.5. Product/Services Port
- 10.2.6. Recent Development
- 10.2.7. Market Strategies
- 10.2.8. SWOT Analysis
- 10.3. Croda International Plc.
- 10.4. Schlumberger Limited
- 10.5. Chevron Phillips Chemical Company
- 10.6. BASF SE
- 10.7. Impact Fluid Solutions
- 10.8. Baker Hughes Company
- 10.9. Aubin Group
- 10.10. Trican Well Service Ltd.
- 10.11. M&D Industries Of Louisiana, Inc.
- 10.12. Senvion S.A.
- 10.13. Vestas Wind Systems A/S
- 10.14. LM Wind Power
- 10.15. TPI Composites Inc.
- 10.16. GE Renewable Energy

List Of Tables

LIST OF TABLES

Table 1. Global Wind Blade Composites Market, Report Scope

Table 2. Global Wind Blade Composites Market Estimates & Forecasts By Region
2024–2035

Table 3. Global Wind Blade Composites Market Estimates & Forecasts By Fiber Type
2024–2035

Table 4. Global Wind Blade Composites Market Estimates & Forecasts By Resin Type
2024–2035

Table 5. Global Wind Blade Composites Market Estimates & Forecasts By Blade Size
2024–2035

Table 6. Global Wind Blade Composites Market Estimates & Forecasts By Application
2024–2035

Table 7. U.S. Market Estimates & Forecasts, 2024–2035

Table 8. Canada Market Estimates & Forecasts, 2024–2035

Table 9. UK Market Estimates & Forecasts, 2024–2035

Table 10. Germany Market Estimates & Forecasts, 2024–2035

Table 11. France Market Estimates & Forecasts, 2024–2035

Table 12. Spain Market Estimates & Forecasts, 2024–2035

Table 13. Italy Market Estimates & Forecasts, 2024–2035

Table 14. China Market Estimates & Forecasts, 2024–2035

Table 15. India Market Estimates & Forecasts, 2024–2035

Table 16. Japan Market Estimates & Forecasts, 2024–2035

Table 17. Australia Market Estimates & Forecasts, 2024–2035

Table 18. South Korea Market Estimates & Forecasts, 2024–2035

Table 19. Brazil Market Estimates & Forecasts, 2024–2035

Table 20. Mexico Market Estimates & Forecasts, 2024–2035

Table 21. UAE Market Estimates & Forecasts, 2024–2035

Table 22. Saudi Arabia Market Estimates & Forecasts, 2024–2035

Table 23. South Africa Market Estimates & Forecasts, 2024–2035

List Of Figures

LIST OF FIGURES

- Figure 1. Global Wind Blade Composites Market, Research Methodology
- Figure 2. Market Estimation Techniques
- Figure 3. Market Size Estimates & Forecast Methods
- Figure 4. Key Market Trends (2025)
- Figure 5. Global Growth Prospects 2024–2035
- Figure 6. Porter's Five Forces Analysis
- Figure 7. PESTEL Analysis
- Figure 8. Wind Blade Composites Market Value Chain
- Figure 9. Market by Fiber Type (2025 & 2035)
- Figure 10. Market by Resin Type (2025 & 2035)
- Figure 11. Market by Blade Size (2025 & 2035)
- Figure 12. Market by Application (2025 & 2035)
- Figure 13. North America Market Snapshot (2025 & 2035)
- Figure 14. Europe Market Snapshot (2025 & 2035)
- Figure 15. Asia Pacific Market Snapshot (2025 & 2035)
- Figure 16. Latin America Market Snapshot (2025 & 2035)
- Figure 17. Middle East & Africa Market Snapshot (2025 & 2035)
- Figure 18. Global Company Market Share Analysis (2025)

I would like to order

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

Product link: <https://marketpublishers.com/r/G9CB0220FDADEN.html>

Price: US\$ 3,750.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G9CB0220FDADEN.html>