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Global Fiberglass Roving for Wind Turbine Blades Market Growth 2026-2032

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Abstracts

The global Fiberglass Roving for Wind Turbine Blades market size is predicted to grow from US$ 1402 million in 2025 to US$ 2287 million in 2032; it is expected to grow at a CAGR of 6.8% from 2026 to 2032.

Fiberglass roving for wind turbine blades is a continuous glass fiber roving used as a reinforcement material in wind blade composite structures. It is processed through knitting, multiaxial lay-up, weaving, pultrusion, infusion or prepreg routes and applied in blade shells, spar caps, shear webs and blade root reinforcement. Key upstream materials include silica sand, pyrophyllite, limestone, boron minerals, soda ash, kaolin, alumina, silane coupling agents, epoxy or polyurethane film formers, lubricants and sizing systems compatible with epoxy, vinyl ester and unsaturated polyester resins. Key performance requirements include high modulus, low fuzz, fast wet-out, fatigue stability, resin compatibility and batch consistency. Jushi states that its E9 ultra-high-modulus glass fiber exceeds 100 GPa modulus, supporting large and lightweight wind blade development.

In 2025, global fiberglass roving for wind turbine blades production reached approximately 1.4 million tons, with an average global market price is $1,000 per ton.

From a global industry perspective, fiberglass roving is one of the most essential and highest-volume reinforcement materials used in large wind turbine blades. Wind blades are typically based on glass-fiber/resin composite systems, where fiberglass reinforcement provides strength, stiffness and fatigue resistance at relatively competitive cost, supporting long blades, large-megawatt turbines and scalable blade manufacturing. Blade shells, shear webs, spar caps and root reinforcement areas require controlled fiber orientation, resin wet-out, laminate quality and fatigue

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performance; technical literature also identifies glass-fiber/epoxy composites as traditional wind turbine blade materials that must meet structural load, fatigue and manufacturing requirements. Owens Corning's wind-energy portfolio also includes single-end rovings, unidirectional reinforcements and multiaxial fabrics, positioned to help wind blades become lighter, longer, stronger, more durable and more cost-effective.

In terms of industry trends, fiberglass roving for wind turbine blades is moving toward higher modulus, higher strength, lower fuzz, fewer breaks, faster wet-out, stable unwinding, higher glass loading, lower defect levels, resin-specific sizing and stronger compatibility with larger blade designs. Conventional E-glass remains a major base material, but as blade lengths increase, high-modulus glass, H-glass, modified E-glass, wind-specific unidirectional fabrics, multiaxial fabrics and high-performance direct rovings are becoming more important. Owens Corning positions its high-modulus glass family for lighter and longer blades, while its Ultrablade UD product highlights improved laminate stiffness in the main fiber direction and operation at high fiber volume fraction. On the manufacturing side, blade producers increasingly focus on vacuum-infusion efficiency, fabric layup stability, preforming quality, pultruded spar-cap compatibility, resin-interface bonding and batch consistency. As a result, competition is shifting from basic roving price and tensile strength toward sizing chemistry, filament diameter, strand-width stability, unwinding tension, weaving efficiency, fatigue performance and blade-production yield.

The main growth drivers come from three areas. First, onshore and offshore wind turbines continue to scale up, with longer blades, larger swept areas and higher structural loads, increasing demand for high-strength, high-modulus and lightweight fiberglass reinforcement. Second, wind projects place increasing emphasis on levelized cost of energy, blade lifetime, operational reliability and large-scale manufacturing efficiency, pushing roving products toward better wet-out, fewer defects, higher consistency and longer fatigue life. Third, blade manufacturing is moving toward automated placement, faster infusion, multiaxial fabrics, unidirectional reinforcement and pultruded spar caps, turning fiberglass roving for wind turbine blades from a general FRP input into a critical reinforcement material affecting blade structural strength, manufacturing efficiency and long-term service reliability.

LP Information, Inc. (LPI) ' newest research report, the ?Fiberglass Roving for Wind Turbine Blades Industry Forecast? looks at past sales and reviews total world Fiberglass Roving for Wind Turbine Blades sales in 2025, providing a comprehensive analysis by region and market sector of projected Fiberglass Roving for Wind Turbine

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Blades sales for 2026 through 2032. With Fiberglass Roving for Wind Turbine Blades sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Fiberglass Roving for Wind Turbine Blades industry.

This Insight Report provides a comprehensive analysis of the global Fiberglass Roving for Wind Turbine Blades landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Fiberglass Roving for Wind Turbine Blades portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms? unique position in an accelerating global Fiberglass Roving for Wind Turbine Blades market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Fiberglass Roving for Wind Turbine Blades and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Fiberglass Roving for Wind Turbine Blades.

This report presents a comprehensive overview, market shares, and growth opportunities of Fiberglass Roving for Wind Turbine Blades market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Standard E-glass

High-modulus Glass

ECR-glass

Others

Segmentation by Resin Compatibility:

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- Unsaturated Polyester Resin Matrix
- Vinyl Ester Resin Matrix
- Epoxy Resin Matrix
- Others

Segmentation by Application:

- Blade Shells
- Spar Caps
- Shear Webs
- Others

This report also splits the market by region:

- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC
  - China
  - Japan
  - Korea

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- Southeast Asia
- India
- Australia

Europe

- Germany
- France
- UK
- Italy
- Russia

Middle East & Africa

- Egypt
- South Africa
- Israel
- Turkey
- GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

- China Jushi
- Praana Group (Owens Corning)

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Saint-Gobain Vetrotex

Nippon Electric Glass

Taishan Fiberglass

CPIC

AGY Holding Corp.

Johns Manville

3B Fibreglass

Shandong Fiberglass Group

Key Questions Addressed in this Report
What is the 10-year outlook for the global Fiberglass Roving for Wind Turbine Blades market?
What factors are driving Fiberglass Roving for Wind Turbine Blades market growth, globally and by region?
Which technologies are poised for the fastest growth by market and region?
How do Fiberglass Roving for Wind Turbine Blades market opportunities vary by end market size?
How does Fiberglass Roving for Wind Turbine Blades break out by Type, by Application?

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