

Global High-modulus Fiberglass Roving for Wind Energy Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global High-modulus Fiberglass Roving for Wind Energy market size was valued at US\$ 569 million in 2025 and is forecast to a readjusted size of US\$ 927 million by 2032 with a CAGR of 6.8% during review period.

High-modulus fiberglass roving for wind energy is a high-performance glass fiber reinforcement material developed for large wind turbine blade composites. In commercial applications, it is mainly supplied as roving and further processed into multiaxial fabrics, pultruded plates, infusion layers and prepreg systems. Key upstream materials include silica sand, pyrophyllite, limestone, dolomite, boron minerals, soda ash, kaolin, alumina, magnesia, silane coupling agents, epoxy or polyurethane film formers, lubricants and sizing systems compatible with epoxy or vinyl ester resins. Compared with standard E-glass, high-modulus glass fiber provides higher elastic modulus and structural stiffness, and is mainly used in spar caps, blade shells, shear webs, root reinforcement and pultruded blade components.

In 2025, global high-modulus fiberglass roving for wind energy production reached approximately 450 kilotons, with an average global market price is \$1,200 per ton.

From a global industry perspective, high-modulus fiberglass roving is an important performance-upgrade route between conventional E-glass wind roving and carbon-fiber reinforcement. Conventional E-glass remains the most widely used and cost-effective base reinforcement in wind blades, but longer blades, larger swept areas and higher structural loads are increasing demand for higher stiffness, higher strength, better fatigue performance and lower structural weight. Owens Corning positions its high-

modulus glass materials as solutions for lighter and longer blades, while technical literature notes that high-performance glass fibers such as WindStrand can provide higher stiffness and strength compared with E-glass for improved wind blade structural performance.

In terms of industry trends, high-modulus fiberglass roving for wind energy is moving toward higher modulus, higher strength, lower resin consumption, fewer defects, faster wet-out, lower fuzz, stable unwinding, optimized fatigue performance and stronger compatibility with larger blade designs. The core competition is no longer only glass-fiber tensile strength, but the combined performance of fiber modulus, sizing chemistry, resin compatibility, weaving efficiency, UD laminate stiffness, fiber volume fraction, fatigue life and blade manufacturing yield. Owens Corning's wind-energy portfolio includes single-end rovings, unidirectional reinforcements and multiaxial fabrics, with the stated goal of enabling lighter, longer, stronger, more durable and more cost-effective blades; its Ultrablade Multiaxial products are also based on H-glass technology to support longer blades and load reduction.

The main growth drivers come from three areas. First, onshore and offshore wind turbines continue to scale up, and spar caps, blade shells and root reinforcement areas require higher stiffness and better fatigue performance; high-modulus fiberglass can improve structural capability while keeping material cost more controlled than carbon fiber. Second, carbon fiber offers clear lightweighting and stiffness advantages in long-blade spar caps, but its higher cost limits broad use in the cost-sensitive wind industry, making high-modulus fiberglass a value-oriented reinforcement option between conventional E-glass and carbon fiber. Third, blade manufacturing is moving toward automated placement, vacuum infusion, multiaxial fabrics, UD reinforcements and pultruded spar caps, increasing demand for stable unwinding, fast wet-out, low fuzz, fewer breaks and strong batch consistency.

This report is a detailed and comprehensive analysis for global High-modulus Fiberglass Roving for Wind Energy market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global High-modulus Fiberglass Roving for Wind Energy market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global High-modulus Fiberglass Roving for Wind Energy market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global High-modulus Fiberglass Roving for Wind Energy market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global High-modulus Fiberglass Roving for Wind Energy market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for High-modulus Fiberglass Roving for Wind Energy

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global High-modulus Fiberglass Roving for Wind Energy market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include China Jushi, Praana Group (Owens Corning), Taishan Fiberglass, CPIC, AGY Holding Corp., 3B Fibreglass, Nippon Electric Glass, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

High-modulus Fiberglass Roving for Wind Energy market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

High-modulus E-glass

Ultra-high-modulus Glass

Others

Market segment by Resin Compatibility

Unsaturated Polyester Resin Matrix

Vinyl Ester Resin Matrix

Epoxy Resin Matrix

Others

Market segment by Application

Blade Shells

Spar Caps

Shear Webs

Others

Major players covered

China Jushi

Praana Group (Owens Corning)

Taishan Fiberglass

CPIC

AGY Holding Corp.

3B Fibreglass

Nippon Electric Glass

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe High-modulus Fiberglass Roving for Wind Energy product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of High-modulus Fiberglass Roving for Wind Energy, with price, sales quantity, revenue, and global market share of High-modulus Fiberglass Roving for Wind Energy from 2021 to 2026.

Chapter 3, the High-modulus Fiberglass Roving for Wind Energy competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the High-modulus Fiberglass Roving for Wind Energy breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and High-modulus Fiberglass Roving for Wind Energy market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of High-modulus Fiberglass Roving for Wind Energy.

Chapter 14 and 15, to describe High-modulus Fiberglass Roving for Wind Energy sales channel, distributors, customers, research findings and conclusion.

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