

# **Wind Turbine Rotor Blade Market based on By Material (Carbon Fiber, Glass Fiber), By Application (Offshore, Onshore), By Capacity (5 MW), By Size (? 30 m, 31- 60 m, 61-90 m, ? 90 m), Regional Outlook– Global Forecast up to 2030**

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## **Abstracts**

Prominent industry participants are making significant investments in R&D to broaden their product offerings, contributing to the further expansion of the wind turbine blade market. In order to increase their market share, market players are also engaging in a variety of calculated strategic actions. Notable changes in the industry include the introduction of new products, contracts, mergers and acquisitions, increased investment, and cooperation with other businesses. In order to grow and thrive in an increasingly competitive and expanding market, the wind turbine blade business needs to provide affordable products.

One of the main business strategies used by manufacturers in the wind turbine blade industry to assist customers and expand the market sector is manufacturing locally to reduce operating costs. Leading companies in the wind turbine blade business, such as Gamesa Corporacion Tecnologica (Spain), Siemens AG (Germany), Acciona S.A. (Spain), Vestas Wind Systems (Denmark), and others, are making investments in R&D to try and increase market demand.

Research Methodology:

After secondary research provided a fundamental understanding of the worldwide Wind Turbine Rotor Blade Market scenario, extensive primary research was carried out. A number of primary interviews were carried out with industry experts from the supply and demand sides, including C- and D-level executives, product managers, and marketing

and sales managers of major manufacturers, distributors, and channel partners from tier 1 and tier 2 companies offering Wind Turbine Rotor Blade Market, as well as personnel from academia, research, and CROs. These interviews were conducted across five major regions: North America, Europe, Asia Pacific, and the Rest of the World (Latin America & the Middle East & Africa). Participants from the supply-side and demand-side participated in about 70% and 30% of the primary interviews, respectively. Through the use of questionnaires, emails, online surveys, in-person interviews, and phone interviews, this main data was gathered. The primary participants share is given below:

The segmentation coverage of the study is provided below.

Wind Turbine Rotor Blade Market based on Material Type:

Glass Fiber

Carbon Fiber

Wind Turbine Rotor Blade Market based on Size:

Up-to 27 Meters

28-37 Meters

38-50 Meters

More Than 50 Meters

Wind Turbine Rotor Blade Market based on Capacity:

Less Than 2 MW

2 MW-5 MW

5 MW

## Wind Turbine Rotor Blade Market based on Application:

Onshore

Offshore

## Wind Turbine Rotor Blade Market based on Geography:

North America

US

Canada

Europe

Germany

UK

France

Italy

Spain

Rest of Europe (RoE)

Asia Pacific (APAC)

China

Japan

India

Australia

South Korea

Rest of Asia Pacific (RoAPAC)

Latin America (LATAM)

Brazil

Argentina

Rest of South America

Middle East and Africa (MEA)

UAE

Turkey

Saudi Arabia

South Africa

Rest of Middle East & Africa

Glass fiber and carbon fiber are included in the market segmentation of wind turbine blades depending on type. Glass fiber made up 35 percent of the market and generated \$6.53 billion in revenue, making it the dominant segment. Growing categories in developing countries are propelled by unique characteristics such as increased rigidity, stability, and chemical resistance. But because of its extreme lightweight and excellent toughness, carbon fiber is expanding the fastest.

Based on size, the wind turbine blade market is divided into four segments: under 27 meters, 28–37 meters, 38–50 meters, and more than 50 meters. The category with more than 50 meters brought in the most money (70.4%). This is because it is less expensive and more efficient. The category with the fastest growth during the projection period is up to 27 meters, nevertheless. Changes in government policy and large investment are the main causes of this.

Based on capacity, the wind turbine blade market is divided into three segments: less than 2 MW, 2 MW–5 MW, and 5 MW. The market was dominated by the 2 MW–5 MW category, which allowed wind power to be used for a wider range of purposes, from large-scale industrial to small-scale residential. However, because of growing worries about the atmosphere and the use of fossil fuels, the 5 MW category is growing at the quickest rate.

Onshore and offshore are included in the market segmentation of wind turbine blades based on application. With 70.4% of total revenue, the offshore category produced the most. This is because more offshore turbines are being used, which has increased demand for wind turbine blades. On the other hand, during the course of the projection period, onshore will expand at the quickest rate, mostly because of the rising need for wind energy on land.

The report offers market information for North America, Europe, Asia-Pacific, and the rest of the world, broken down by region. Due to the region's growing energy demand and growing usage of wind turbines, the wind turbine blade market in North America is expected to dominate during the forecast period. In addition, the market for wind turbine blades in the US had the most market share, while the market in Canada was expanding at the quickest rate among European markets.

Additionally, the US, Canada, Germany, France, the UK, Italy, Spain, China, Japan, India, Australia, South Korea, and Brazil are among the important nations examined in the market report.

Key Companies in the Wind Turbine Blade industry include TPI Composites Inc., Lianyungang Zhongfu Lianzhong Composites Group Co. Ltd, LM Wind Power, Nordex SE, Siemens Gamesa Renewable Energy S.A., Vestas Wind Systems A/S, MFG Wind, Sinoma wind power blade Co. Ltd, Aeris Energy, Suzlon Energy Limited, Enercon GmbH.

This report illustrates the most vital attributes of the Wind Turbine Rotor Blade Market, which are driving and providing opportunities.

This research gives an in-depth analysis of the Wind Turbine Rotor Blade Market growth on the basis of several segments in the market.

This report presents the predictions of the past and present trends of the Wind Turbine Rotor Blade Market.

This study also presents the competitive analysis, such as key strategies and capabilities of major players of the Wind Turbine Rotor Blade Market.

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