

# **Wind Turbine Rotor Blade Market Size and Forecasts (2020 - 2030), Global and Regional Share, Trends, and Growth Opportunity Analysis Report Coverage: By Type (Below 40m, 41-60m, 61-70m, and Above 70m); Deployment Type (Onshore and Offshore), and Geography**

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## **Abstracts**

The wind turbine rotor blade market was valued at US\$ 15,935.50 million in 2022 and is projected to reach US\$ 32,999.77 million by 2030; it is expected to grow at a CAGR of 9.5% during 2022–2030.

**Increasing Adoption of Recycling Technology is Driving the Wind Turbine Rotor Blade Market Growth**

Key players in the wind turbine rotor blade market continuously focus on developing innovative designs and materials for the turbine blade to increase overall efficiency. In the last two years, many public and private organizations have successfully developed recycled blade manufacturing processes. For instance, Siemens Games came up with the industry's first recycled blade for offshore and onshore wind farms. Moreover, many private organizations have developed recycling processes for decommissioned wind turbine blades. Previously, the industry was unable to recycle wind turbine blades after decommissioning, owing to which the blades would end up in the trash, further increasing the need for waste management activities and the risk of environmental pollution. With these innovative recycling methods, blade materials can be recycled and repurposed in various sectors. For instance, Carbon Rivers developed a method for recovering clean, mechanically intact glass fiber from decommissioned wind turbine blades. These methods will help the wind turbines to become truly sustainable. Such

initiatives are expected to reduce the overall impact generated by wind turbine blades, allowing energy companies to deploy a high number of offshore wind turbines without any risks of environmental pollution and the government's stringent regulations or limitations.

The Tribal Nation Technical Assistance Program for Offshore Wind Transmission is a demonstration of the U.S. government's commitment to wind energy development and the critical role that wind turbine rotor blades play in harnessing offshore wind resources. As the offshore wind sector expands in response to government policies and commitments, the market for wind turbine rotor blades is poised to grow, benefiting both the wind energy industry and the broader goals of reducing carbon emissions and combatting climate change.

The growing demand for clean energy generation, increasing adoption of renewable energy, and rise in investment in renewable energy sources are the key factors responsible for the growth of the wind power industry, which, in turn, is expected to drive the wind turbine rotor blade market expansion during the forecast period.

Also, in March 2022, the agreement between General Electric and Iberdrola Australia aimed at supplying and installation of 38 wind turbines for the Flyers Creek wind farm project. It is a 145 MW wind farm that will power an equivalent of 86,000 homes and is expected to be completed by 2023. Thus, the increasing number of wind farm projects is bolstering the market outlook, which is further driving the wind turbine rotor blade market growth in Australia.

The global wind turbine rotor blade market share has been segmented based on generator type and deployment type. Based on generator type, the market has been segmented into below 40m, 41–60m, 61–70m, and above 70m. By deployment type, the market has been bifurcated into onshore and offshore. The global wind turbine rotor blade market share has also been analyzed on the basis of five major regions: North America, Europe, APAC, the MEA, and SAM.

TPI Composites SA, Vestas Wind Systems A/S, Enercon GmbH, LM Wind Power, Siemens Gamesa Renewable Energy SA, Acciona SA, Suzlon Energy Ltd, Nordex SE, Envision Group, and Lianyungang Zhongfu Lianzhong Composites Group Co. Ltd are among the key wind turbine rotor blade market players profiled during this market study. In addition to these players, various other major companies have also been studied and analyzed to get a holistic view of the global wind turbine rotor blade market and its ecosystem.

## Contents

### **1. INTRODUCTION**

- 1.1 The Insight Partners Research Report Guidance
- 1.2 Market Segmentation

### **2. EXECUTIVE SUMMARY**

- 2.1 Key Insights
- 2.2 Market Attractiveness

### **3. RESEARCH METHODOLOGY**

- 3.1 Coverage
- 3.2 Secondary Research
- 3.3 Primary Research

### **4. WIND TURBINE ROTOR BLADE MARKET LANDSCAPE**

- 4.1 Overview
- 4.2 PEST Analysis
- 4.3 Ecosystem Analysis
  - 4.3.1 List of Wind Turbine Rotor Blade Suppliers

### **5. WIND TURBINE ROTOR BLADE MARKET - KEY INDUSTRY DYNAMICS**

- 5.1 Wind Turbine Rotor Blade Market - Key Industry Dynamics
- 5.2 Market Drivers
  - 5.2.1 Increased Energy Consumption and Trends of Clean Energy
  - 5.2.2 Government Initiatives to Boost Green Energy Production
  - 5.2.3 Innovations in Wind Turbine Blade Designs
- 5.3 Market Restraints
  - 5.3.1 High Cost of Wind Turbine Installation and Maintenance
- 5.4 Market Opportunities
  - 5.4.1 Growing Investments in Offshore Wind Projects
- 5.5 Future Trends
  - 5.5.1 Increasing Adoption of Recycling Technology
- 5.6 Impact of Drivers and Restraints:

## **6. WIND TURBINE ROTOR BLADE MARKET - GLOBAL MARKET ANALYSIS**

6.1 Wind Turbine Rotor Blade Market Revenue (US\$ Million), 2022 – 2030

6.2 Wind Turbine Rotor Blade Market Forecast and Analysis

## **7. WIND TURBINE ROTOR BLADE MARKET ANALYSIS –TYPE**

7.1 Wind Turbine Rotor Blade Market, By Type (2022 and 2030)

7.2 Below 40m

7.2.1 Overview

7.2.2 Below 40m Market, Revenue and Forecast to 2030 (US\$ Million)

7.3-60m

7.3.1 Overview

7.3.2-60m Market, Revenue and Forecast to 2030 (US\$ Million)

7.4-70m

7.4.1 Overview

7.4.2-70m Market, Revenue and Forecast to 2030 (US\$ Million)

7.5 Above 70m

7.5.1 Overview

7.5.2 Above 70m Market, Revenue and Forecast to 2030 (US\$ Million)

## **8. WIND TURBINE ROTOR BLADE MARKET ANALYSIS – DEPLOYMENT TYPE**

8.1 Wind Turbine Rotor Blade Market, By Deployment Type (2022 and 2030)

8.2 Onshore

8.2.1 Overview

8.2.2 Onshore Market, Revenue and Forecast to 2030 (US\$ Million)

8.3 Offshore

8.3.1 Overview

8.3.2 Offshore Market, Revenue and Forecast to 2030 (US\$ Million)

## **9. WIND TURBINE ROTOR BLADE MARKET - GEOGRAPHICAL ANALYSIS**

9.1 Overview

9.2 North America

9.2.1 North America Wind Turbine Rotor Blade Market Overview

9.2.2 North America Wind Turbine Rotor Blade Market Revenue and Forecasts to 2030 (US\$ Mn)

### 9.2.3 North America Wind Turbine Rotor Blade Market Breakdown by Type

9.2.3.1 North America Wind Turbine Rotor Blade Market Revenue and Forecasts and Analysis - By Type

9.2.4 North America Wind Turbine Rotor Blade Market Breakdown by Deployment Type

9.2.4.1 North America Wind Turbine Rotor Blade Market Revenue and Forecasts and Analysis - By Deployment Type

9.2.5 North America Wind Turbine Rotor Blade Market Revenue and Forecasts and Analysis - By Country

9.2.5.1 US Wind Turbine Rotor Blade Market Revenue and Forecasts to 2030 (US\$ Mn)

9.2.5.1.1 US Wind Turbine Rotor Blade Market Breakdown by Type

9.2.5.1.2 US Wind Turbine Rotor Blade Market Breakdown by Deployment Type

9.2.5.2 Canada Wind Turbine Rotor Blade Market Revenue and Forecasts to 2030 (US\$ Mn)

9.2.5.2.1 Canada Wind Turbine Rotor Blade Market Breakdown by Type

9.2.5.2.2 Canada Wind Turbine Rotor Blade Market Breakdown by Deployment Type

9.2.5.3 Mexico Wind Turbine Rotor Blade Market Revenue and Forecasts to 2030 (US\$ Mn)

9.2.5.3.1 Mexico Wind Turbine Rotor Blade Market Breakdown by Type

9.2.5.3.2 Mexico Wind Turbine Rotor Blade Market Breakdown by Deployment Type

### 9.3 Europe

9.3.1 Europe Wind Turbine Rotor Blade Market Overview

9.3.2 Europe Wind Turbine Rotor Blade Market Revenue and Forecasts to 2030 (US\$ Mn)

9.3.3 Europe Wind Turbine Rotor Blade Market Breakdown by Type

9.3.3.1 Europe Wind Turbine Rotor Blade Market Revenue and Forecasts and Analysis - By Type

9.3.4 Europe Wind Turbine Rotor Blade Market Breakdown by Deployment Type

9.3.4.1 Europe Wind Turbine Rotor Blade Market Revenue and Forecasts and Analysis - By Deployment Type

9.3.5 Europe Wind Turbine Rotor Blade Market Revenue and Forecasts and Analysis - By Country

9.3.5.1 Germany Wind Turbine Rotor Blade Market Revenue and Forecasts to 2030 (US\$ Mn)

9.3.5.1.1 Germany Wind Turbine Rotor Blade Market Breakdown by Type

9.3.5.1.2 Germany Wind Turbine Rotor Blade Market Breakdown by Deployment Type

### 9.3.5.2 France Wind Turbine Rotor Blade Market Revenue and Forecasts to 2030 (US\$ Mn)

9.3.5.2.1 France Wind Turbine Rotor Blade Market Breakdown by Type

9.3.5.2.2 France Wind Turbine Rotor Blade Market Breakdown by Deployment Type

### 9.3.5.3 Italy Wind Turbine Rotor Blade Market Revenue and Forecasts to 2030 (US\$ Mn)

9.3.5.3.1 Italy Wind Turbine Rotor Blade Market Breakdown by Type

9.3.5.3.2 Italy Wind Turbine Rotor Blade Market Breakdown by Deployment Type

### 9.3.5.4 UK Wind Turbine Rotor Blade Market Revenue and Forecasts to 2030 (US\$ Mn)

9.3.5.4.1 UK Wind Turbine Rotor Blade Market Breakdown by Type

9.3.5.4.2 UK Wind Turbine Rotor Blade Market Breakdown by Deployment Type

### 9.3.5.5 Russia Wind Turbine Rotor Blade Market Revenue and Forecasts to 2030 (US\$ Mn)

9.3.5.5.1 Russia Wind Turbine Rotor Blade Market Breakdown by Type

9.3.5.5.2 Russia Wind Turbine Rotor Blade Market Breakdown by Deployment Type

### 9.3.5.6 Rest of Europe Wind Turbine Rotor Blade Market Revenue and Forecasts to 2030 (US\$ Mn)

9.3.5.6.1 Rest of Europe Wind Turbine Rotor Blade Market Breakdown by Type

9.3.5.6.2 Rest of Europe Wind Turbine Rotor Blade Market Breakdown by Deployment Type

## 9.4 Asia Pacific

9.4.1 Asia Pacific Wind Turbine Rotor Blade Market Overview

### 9.4.2 Asia Pacific Wind Turbine Rotor Blade Market Revenue and Forecasts to 2030 (US\$ Mn)

9.4.3 Asia Pacific Wind Turbine Rotor Blade Market Breakdown by Type

9.4.3.1 Asia Pacific Wind Turbine Rotor Blade Market Revenue and Forecasts and Analysis - By Type

9.4.4 Asia Pacific Wind Turbine Rotor Blade Market Breakdown by Deployment Type

9.4.4.1 Asia Pacific Wind Turbine Rotor Blade Market Revenue and Forecasts and Analysis - By Deployment Type

9.4.5 Asia Pacific Wind Turbine Rotor Blade Market Revenue and Forecasts and Analysis - By Country

### 9.4.5.1 Australia Wind Turbine Rotor Blade Market Revenue and Forecasts to 2030 (US\$ Mn)

9.4.5.1.1 Australia Wind Turbine Rotor Blade Market Breakdown by Type

9.4.5.1.2 Australia Wind Turbine Rotor Blade Market Breakdown by Deployment Type

9.4.5.2 China Wind Turbine Rotor Blade Market Revenue and Forecasts to 2030

(US\$ Mn)

9.4.5.2.1 China Wind Turbine Rotor Blade Market Breakdown by Type

9.4.5.2.2 China Wind Turbine Rotor Blade Market Breakdown by Deployment Type

9.4.5.3 India Wind Turbine Rotor Blade Market Revenue and Forecasts to 2030 (US\$ Mn)

9.4.5.3.1 India Wind Turbine Rotor Blade Market Breakdown by Type

9.4.5.3.2 India Wind Turbine Rotor Blade Market Breakdown by Deployment Type

9.4.5.4 Japan Wind Turbine Rotor Blade Market Revenue and Forecasts to 2030

(US\$ Mn)

9.4.5.4.1 Japan Wind Turbine Rotor Blade Market Breakdown by Type

9.4.5.4.2 Japan Wind Turbine Rotor Blade Market Breakdown by Deployment Type

9.4.5.5 South Korea Wind Turbine Rotor Blade Market Revenue and Forecasts to 2030 (US\$ Mn)

9.4.5.5.1 South Korea Wind Turbine Rotor Blade Market Breakdown by Type

9.4.5.5.2 South Korea Wind Turbine Rotor Blade Market Breakdown by Deployment Type

9.4.5.6 Rest of Asia Pacific Wind Turbine Rotor Blade Market Revenue and Forecasts to 2030 (US\$ Mn)

9.4.5.6.1 Rest of Asia Pacific Wind Turbine Rotor Blade Market Breakdown by Type

9.4.5.6.2 Rest of Asia Pacific Wind Turbine Rotor Blade Market Breakdown by Deployment Type

9.5 Middle East and Africa

9.5.1 Middle East and Africa Wind Turbine Rotor Blade Market Overview

9.5.2 Middle East and Africa Wind Turbine Rotor Blade Market Revenue and Forecasts to 2030 (US\$ Mn)

9.5.3 Middle East and Africa Wind Turbine Rotor Blade Market Breakdown by Type

9.5.3.1 Middle East and Africa Wind Turbine Rotor Blade Market Revenue and Forecasts and Analysis - By Type

9.5.4 Middle East and Africa Wind Turbine Rotor Blade Market Breakdown by Deployment Type

9.5.4.1 Middle East and Africa Wind Turbine Rotor Blade Market Revenue and Forecasts and Analysis - By Deployment Type

9.5.5 Middle East and Africa Wind Turbine Rotor Blade Market Revenue and Forecasts and Analysis - By Country

9.5.5.1 South Africa Wind Turbine Rotor Blade Market Revenue and Forecasts to 2030 (US\$ Mn)

9.5.5.1.1 South Africa Wind Turbine Rotor Blade Market Breakdown by Type

9.5.5.1.2 South Africa Wind Turbine Rotor Blade Market Breakdown by Deployment Type

#### 9.5.5.2 Saudi Arabia Wind Turbine Rotor Blade Market Revenue and Forecasts to 2030 (US\$ Mn)

##### 9.5.5.2.1 Saudi Arabia Wind Turbine Rotor Blade Market Breakdown by Type

##### 9.5.5.2.2 Saudi Arabia Wind Turbine Rotor Blade Market Breakdown by Deployment Type

#### 9.5.5.3 Egypt Wind Turbine Rotor Blade Market Revenue and Forecasts to 2030 (US\$ Mn)

##### 9.5.5.3.1 Egypt Wind Turbine Rotor Blade Market Breakdown by Type

##### 9.5.5.3.2 Egypt Wind Turbine Rotor Blade Market Breakdown by Deployment Type

#### 9.5.5.4 Rest of MEA Wind Turbine Rotor Blade Market Revenue and Forecasts to 2030 (US\$ Mn)

##### 9.5.5.4.1 Rest of MEA Wind Turbine Rotor Blade Market Breakdown by Type

##### 9.5.5.4.2 Rest of MEA Wind Turbine Rotor Blade Market Breakdown by Deployment Type

### 9.6 South America

#### 9.6.1 South America Wind Turbine Rotor Blade Market Overview

#### 9.6.2 South America Wind Turbine Rotor Blade Market Revenue and Forecasts to 2030 (US\$ Mn)

##### 9.6.3 South America Wind Turbine Rotor Blade Market Breakdown by Type

##### 9.6.3.1 South America Wind Turbine Rotor Blade Market Revenue and Forecasts and Analysis - By Type

##### 9.6.4 South America Wind Turbine Rotor Blade Market Breakdown by Deployment Type

##### 9.6.4.1 South America Wind Turbine Rotor Blade Market Revenue and Forecasts and Analysis - By Deployment Type

##### 9.6.5 South America Wind Turbine Rotor Blade Market Revenue and Forecasts and Analysis - By Country

##### 9.6.5.1 Brazil Wind Turbine Rotor Blade Market Revenue and Forecasts to 2030 (US\$ Mn)

###### 9.6.5.1.1 Brazil Wind Turbine Rotor Blade Market Breakdown by Type

###### 9.6.5.1.2 Brazil Wind Turbine Rotor Blade Market Breakdown by Deployment Type

##### 9.6.5.2 Argentina Wind Turbine Rotor Blade Market Revenue and Forecasts to 2030 (US\$ Mn)

###### 9.6.5.2.1 Argentina Wind Turbine Rotor Blade Market Breakdown by Type

##### 9.6.5.2.2 Argentina Wind Turbine Rotor Blade Market Breakdown by Deployment Type

##### 9.6.5.3 Rest of SAM Wind Turbine Rotor Blade Market Revenue and Forecasts to 2030 (US\$ Mn)

###### 9.6.5.3.1 Rest of SAM Wind Turbine Rotor Blade Market Breakdown by Type



9.6.5.3.2 Rest of SAM Wind Turbine Rotor Blade Market Breakdown by Deployment Type

## **10. WIND TURBINE ROTOR BLADE MARKET – IMPACT OF COVID-19 PANDEMIC**

10.1 Pre & Post Covid-19 Impact

## **11. COMPETITIVE LANDSCAPE**

11.1 Heat Map Analysis by Key Players

11.2 Company Positioning & Concentration

## **12. INDUSTRY LANDSCAPE**

12.1 Overview

12.2 Market Initiative

12.3 Product Development

12.4 Mergers & Acquisitions

## **13. COMPANY PROFILES**

13.1 TPI Composites Inc

13.1.1 Key Facts

13.1.2 Business Description

13.1.3 Products and Services

13.1.4 Financial Overview

13.1.5 SWOT Analysis

13.1.6 Key Developments

13.2 Vestas Wind Systems AS

13.2.1 Key Facts

13.2.2 Business Description

13.2.3 Products and Services

13.2.4 Financial Overview

13.2.5 SWOT Analysis

13.2.6 Key Developments

13.3 ENERCON GmbH

13.3.1 Key Facts

13.3.2 Business Description

13.3.3 Products and Services

- 13.3.4 Financial Overview
- 13.3.5 SWOT Analysis
- 13.3.6 Key Developments
- 13.4 LM Wind Power AS
  - 13.4.1 Key Facts
  - 13.4.2 Business Description
  - 13.4.3 Products and Services
  - 13.4.4 Financial Overview
  - 13.4.5 SWOT Analysis
  - 13.4.6 Key Developments
- 13.5 Siemens Gamesa Renewable Energy SA
  - 13.5.1 Key Facts
  - 13.5.2 Business Description
  - 13.5.3 Products and Services
  - 13.5.4 Financial Overview
  - 13.5.5 SWOT Analysis
  - 13.5.6 Key Developments
- 13.6 Acciona SA
  - 13.6.1 Key Facts
  - 13.6.2 Business Description
  - 13.6.3 Products and Services
  - 13.6.4 Financial Overview
  - 13.6.5 SWOT Analysis
  - 13.6.6 Key Developments
- 13.7 Suzlon Energy Ltd
  - 13.7.1 Key Facts
  - 13.7.2 Business Description
  - 13.7.3 Products and Services
  - 13.7.4 Financial Overview
  - 13.7.5 SWOT Analysis
  - 13.7.6 Key Developments
- 13.8 Nordex SE
  - 13.8.1 Key Facts
  - 13.8.2 Business Description
  - 13.8.3 Products and Services
  - 13.8.4 Financial Overview
  - 13.8.5 SWOT Analysis
  - 13.8.6 Key Developments
- 13.9 Envision Energy USA Ltd

13.9.1 Key Facts

13.9.2 Business Description

13.9.3 Products and Services

13.9.4 Financial Overview

13.9.5 SWOT Analysis

13.9.6 Key Developments

13.10 Lianyungang Zhongfu Lianzhong Composites Group Co Ltd

13.10.1 Key Facts

13.10.2 Business Description

13.10.3 Products and Services

13.10.4 Financial Overview

13.10.5 SWOT Analysis

13.10.6 Key Developments

## **14. APPENDIX**

14.1 About The Insight Partners

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