

Wind Turbine Components Market Report by Component (Rotator Blade, Gearbox, Generator, Nacelle, Tower, and Others), Wind Turbine Type (Grid Connected, Standalone), Wind Farm Type (Onshore, Offshore), and Region 2024-2032

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Abstracts

The global wind turbine components market size reached US\$ 127.2 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 225.6 Billion by 2032, exhibiting a growth rate (CAGR) of 6.4% during 2024-2032.

Wind turbine components refer to the devices used for converting kinetic energy generated from the wind to electric energy. It consists of an anemometer to measure the speed of the wind and transmit the data, multiple blades to rotate and cause the rotor to spin, a brake to stop the rotor mechanically, electrically or hydraulically, a controller to start up and shut off the machine, a generator and a gearbox. The turbine also consists of a nacelle, drive train, power transformer and yaw, pitch, lubrication, and Supervisory Control and Data Acquisition (SCADA) systems. These components are usually manufactured using stainless steel, fiberglass, resin, iron, copper, aluminum, and plastic to protect the turbines from weathering and corrosion, thereby enhancing the components' longevity and ensuring reliable functioning.

Wind Turbine Components Market Trends:

The increasing demand for renewable sources of energy, along with the growing electricity requirements across the globe, is one of the key factors creating a positive impact on the market. Due to rising environmental consciousness among the masses, there is an increasing adoption of wind energy systems for power generation in green buildings, which is contributing to the market growth. Additionally, various technological

advancements, such as the development of 3D printed components, are acting as other growth-inducing factors. Manufacturers are using innovating 3D printing technology to create cost-effective and more durable rotor blades with improved design capabilities and greater energy absorption. Other factors, including the implementation of favorable government policies promoting sustainable infrastructural development, along with extensive research and development (R&D) activities, are anticipated to drive the market further.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global wind turbine components market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on component, wind turbine type and wind farm type.

Breakup by Component:

- Rotator Blade
- Gearbox
- Generator
- Nacelle
- Tower
- Others

Breakup by Wind Turbine Type:

- Grid Connected
- Standalone

Breakup by Wind Farm Type:

- Onshore
- Offshore

Breakup by Region:

- North America
 - United States
 - Canada
- Asia Pacific
- China

Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The report has also analysed the competitive landscape of the market with some of the key players being Enercon GmbH, GE Renewable Energy, Nordex SE, Northern Power Systems Corp. (Distributed Energy Systems Corp.), Siemens Gamesa Renewable Energy (Siemens AG), Sinovel Wind Group Co. Ltd., Suzlon Energy Ltd., United Power Inc. (United Power Technology), Vestas Wind Systems A/S and Xinjiang Goldwind Science & Technology Co. Ltd.

Key Questions Answered in This Report

1. What was the size of the global wind turbine components market in 2023?
2. What is the expected growth rate of the global wind turbine components market during 2024-2032?
3. What are the key factors driving the global wind turbine components market?
4. What has been the impact of COVID-19 on the global wind turbine components market?
5. What is the breakup of the global wind turbine components market based on the component?
6. What is the breakup of the global wind turbine components market based on the wind

turbine type?

7. What is the breakup of the global wind turbine components market based on the wind farm type?

8. What are the key regions in the global wind turbine components market?

9. Who are the key players/companies in the global wind turbine components market?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL WIND TURBINE COMPONENTS MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY COMPONENT

- 6.1 Rotator Blade
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Gearbox
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
- 6.3 Generator

- 6.3.1 Market Trends
- 6.3.2 Market Forecast
- 6.4 Nacelle
 - 6.4.1 Market Trends
 - 6.4.2 Market Forecast
- 6.5 Tower
 - 6.5.1 Market Trends
 - 6.5.2 Market Forecast
- 6.6 Others
 - 6.6.1 Market Trends
 - 6.6.2 Market Forecast

7 MARKET BREAKUP BY WIND TURBINE TYPE

- 7.1 Grid Connected
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
- 7.2 Standalone
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast

8 MARKET BREAKUP BY WIND FARM TYPE

- 8.1 Onshore
 - 8.1.1 Market Trends
 - 8.1.2 Market Forecast
- 8.2 Offshore
 - 8.2.1 Market Trends
 - 8.2.2 Market Forecast

9 MARKET BREAKUP BY REGION

- 9.1 North America
 - 9.1.1 United States
 - 9.1.1.1 Market Trends
 - 9.1.1.2 Market Forecast
 - 9.1.2 Canada
 - 9.1.2.1 Market Trends
 - 9.1.2.2 Market Forecast

9.2 Asia Pacific

9.2.1 China

9.2.1.1 Market Trends

9.2.1.2 Market Forecast

9.2.2 Japan

9.2.2.1 Market Trends

9.2.2.2 Market Forecast

9.2.3 India

9.2.3.1 Market Trends

9.2.3.2 Market Forecast

9.2.4 South Korea

9.2.4.1 Market Trends

9.2.4.2 Market Forecast

9.2.5 Australia

9.2.5.1 Market Trends

9.2.5.2 Market Forecast

9.2.6 Indonesia

9.2.6.1 Market Trends

9.2.6.2 Market Forecast

9.2.7 Others

9.2.7.1 Market Trends

9.2.7.2 Market Forecast

9.3 Europe

9.3.1 Germany

9.3.1.1 Market Trends

9.3.1.2 Market Forecast

9.3.2 France

9.3.2.1 Market Trends

9.3.2.2 Market Forecast

9.3.3 United Kingdom

9.3.3.1 Market Trends

9.3.3.2 Market Forecast

9.3.4 Italy

9.3.4.1 Market Trends

9.3.4.2 Market Forecast

9.3.5 Spain

9.3.5.1 Market Trends

9.3.5.2 Market Forecast

9.3.6 Russia

9.3.6.1 Market Trends

9.3.6.2 Market Forecast

9.3.7 Others

9.3.7.1 Market Trends

9.3.7.2 Market Forecast

9.4 Latin America

9.4.1 Brazil

9.4.1.1 Market Trends

9.4.1.2 Market Forecast

9.4.2 Mexico

9.4.2.1 Market Trends

9.4.2.2 Market Forecast

9.4.3 Others

9.4.3.1 Market Trends

9.4.3.2 Market Forecast

9.5 Middle East and Africa

9.5.1 Market Trends

9.5.2 Market Breakup by Country

9.5.3 Market Forecast

10 SWOT ANALYSIS

10.1 Overview

10.2 Strengths

10.3 Weaknesses

10.4 Opportunities

10.5 Threats

11 VALUE CHAIN ANALYSIS

12 PORTERS FIVE FORCES ANALYSIS

12.1 Overview

12.2 Bargaining Power of Buyers

12.3 Bargaining Power of Suppliers

12.4 Degree of Competition

12.5 Threat of New Entrants

12.6 Threat of Substitutes

13 PRICE ANALYSIS

14 COMPETITIVE LANDSCAPE

14.1 Market Structure

14.2 Key Players

14.3 Profiles of Key Players

14.3.1 Enercon GmbH

14.3.1.1 Company Overview

14.3.1.2 Product Portfolio

14.3.1.3 Financials

14.3.1.4 SWOT Analysis

14.3.2 GE Renewable Energy

14.3.2.1 Company Overview

14.3.2.2 Product Portfolio

14.3.2.3 Financials

14.3.2.4 SWOT Analysis

14.3.3 Nordex SE

14.3.3.1 Company Overview

14.3.3.2 Product Portfolio

14.3.3.3 Financials

14.3.3.4 SWOT Analysis

14.3.4 Northern Power Systems Corp. (Distributed Energy Systems Corp.)

14.3.4.1 Company Overview

14.3.4.2 Product Portfolio

14.3.5 Siemens Gamesa Renewable Energy (Siemens AG)

14.3.5.1 Company Overview

14.3.5.2 Product Portfolio

14.3.5.3 Financials

14.3.5.4 SWOT Analysis

14.3.6 Sinovel Wind Group Co. Ltd.

14.3.6.1 Company Overview

14.3.6.2 Product Portfolio

14.3.7 Suzlon Energy Ltd.

14.3.7.1 Company Overview

14.3.7.2 Product Portfolio

14.3.7.3 Financials

14.3.7.4 SWOT Analysis

14.3.8 United Power Inc (United Power Technology)

- 14.3.8.1 Company Overview
- 14.3.8.2 Product Portfolio
- 14.3.9 Vestas Wind Systems A/S
 - 14.3.9.1 Company Overview
 - 14.3.9.2 Product Portfolio
 - 14.3.9.3 Financials
 - 14.3.9.4 SWOT Analysis
- 14.3.10 Xinjiang Goldwind Science & Technology Co. Ltd.
 - 14.3.10.1 Company Overview
 - 14.3.10.2 Product Portfolio
 - 14.3.10.3 Financials
 - 14.3.10.4 SWOT Analysis

List Of Tables

LIST OF TABLES

Table 1: Global: Wind Turbine Components Market: Key Industry Highlights, 2023 and 2032

Table 2: Global: Wind Turbine Components Market Forecast: Breakup by Component (in Million US\$), 2024-2032

Table 3: Global: Wind Turbine Components Market Forecast: Breakup by Wind Turbine Type (in Million US\$), 2024-2032

Table 4: Global: Wind Turbine Components Market Forecast: Breakup by Wind Farm Type (in Million US\$), 2024-2032

Table 5: Global: Wind Turbine Components Market Forecast: Breakup by Region (in Million US\$), 2024-2032

Table 6: Global: Wind Turbine Components Market Structure

Table 7: Global: Wind Turbine Components Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: Global: Wind Turbine Components Market: Major Drivers and Challenges

Figure 2: Global: Wind Turbine Components Market: Sales Value (in Billion US\$), 2018-2023

Figure 3: Global: Wind Turbine Components Market: Breakup by Component (in %), 2023

Figure 4: Global: Wind Turbine Components Market: Breakup by Wind Turbine Type (in %), 2023

Figure 5: Global: Wind Turbine Components Market: Breakup by Wind Farm Type (in %), 2023

Figure 6: Global: Wind Turbine Components Market: Breakup by Region (in %), 2023

Figure 7: Global: Wind Turbine Components Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 8: Global: Wind Turbine Components (Rotator Blade) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 9: Global: Wind Turbine Components (Rotator Blade) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 10: Global: Wind Turbine Components (Gearbox) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 11: Global: Wind Turbine Components (Gearbox) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 12: Global: Wind Turbine Components (Generator) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 13: Global: Wind Turbine Components (Generator) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 14: Global: Wind Turbine Components (Nacelle) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 15: Global: Wind Turbine Components (Nacelle) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 16: Global: Wind Turbine Components (Tower) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 17: Global: Wind Turbine Components (Tower) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 18: Global: Wind Turbine Components (Other Components) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 19: Global: Wind Turbine Components (Other Components) Market Forecast:

Sales Value (in Million US\$), 2024-2032

Figure 20: Global: Wind Turbine Components (Grid Connected) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 21: Global: Wind Turbine Components (Grid Connected) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 22: Global: Wind Turbine Components (Standalone) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 23: Global: Wind Turbine Components (Standalone) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 24: Global: Wind Turbine Components (Onshore) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 25: Global: Wind Turbine Components (Onshore) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 26: Global: Wind Turbine Components (Offshore) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 27: Global: Wind Turbine Components (Offshore) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 28: North America: Wind Turbine Components Market: Sales Value (in Million US\$), 2018 & 2023

Figure 29: North America: Wind Turbine Components Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 30: United States: Wind Turbine Components Market: Sales Value (in Million US\$), 2018 & 2023

Figure 31: United States: Wind Turbine Components Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 32: Canada: Wind Turbine Components Market: Sales Value (in Million US\$), 2018 & 2023

Figure 33: Canada: Wind Turbine Components Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 34: Asia Pacific: Wind Turbine Components Market: Sales Value (in Million US\$), 2018 & 2023

Figure 35: Asia Pacific: Wind Turbine Components Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 36: China: Wind Turbine Components Market: Sales Value (in Million US\$), 2018 & 2023

Figure 37: China: Wind Turbine Components Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 38: Japan: Wind Turbine Components Market: Sales Value (in Million US\$), 2018 & 2023

Figure 39: Japan: Wind Turbine Components Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 40: India: Wind Turbine Components Market: Sales Value (in Million US\$), 2018 & 2023

Figure 41: India: Wind Turbine Components Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 42: South Korea: Wind Turbine Components Market: Sales Value (in Million US\$), 2018 & 2023

Figure 43: South Korea: Wind Turbine Components Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 44: Australia: Wind Turbine Components Market: Sales Value (in Million US\$), 2018 & 2023

Figure 45: Australia: Wind Turbine Components Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 46: Indonesia: Wind Turbine Components Market: Sales Value (in Million US\$), 2018 & 2023

Figure 47: Indonesia: Wind Turbine Components Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 48: Others: Wind Turbine Components Market: Sales Value (in Million US\$), 2018 & 2023

Figure 49: Others: Wind Turbine Components Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 50: Europe: Wind Turbine Components Market: Sales Value (in Million US\$), 2018 & 2023

Figure 51: Europe: Wind Turbine Components Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 52: Germany: Wind Turbine Components Market: Sales Value (in Million US\$), 2018 & 2023

Figure 53: Germany: Wind Turbine Components Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 54: France: Wind Turbine Components Market: Sales Value (in Million US\$), 2018 & 2023

Figure 55: France: Wind Turbine Components Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 56: United Kingdom: Wind Turbine Components Market: Sales Value (in Million US\$), 2018 & 2023

Figure 57: United Kingdom: Wind Turbine Components Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 58: Italy: Wind Turbine Components Market: Sales Value (in Million US\$), 2018

& 2023

Figure 59: Italy: Wind Turbine Components Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 60: Spain: Wind Turbine Components Market: Sales Value (in Million US\$), 2018 & 2023

Figure 61: Spain: Wind Turbine Components Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 62: Russia: Wind Turbine Components Market: Sales Value (in Million US\$), 2018 & 2023

Figure 63: Russia: Wind Turbine Components Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 64: Others: Wind Turbine Components Market: Sales Value (in Million US\$), 2018 & 2023

Figure 65: Others: Wind Turbine Components Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 66: Latin America: Wind Turbine Components Market: Sales Value (in Million US\$), 2018 & 2023

Figure 67: Latin America: Wind Turbine Components Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 68: Brazil: Wind Turbine Components Market: Sales Value (in Million US\$), 2018 & 2023

Figure 69: Brazil: Wind Turbine Components Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 70: Mexico: Wind Turbine Components Market: Sales Value (in Million US\$), 2018 & 2023

Figure 71: Mexico: Wind Turbine Components Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 72: Others: Wind Turbine Components Market: Sales Value (in Million US\$), 2018 & 2023

Figure 73: Others: Wind Turbine Components Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 74: Middle East and Africa: Wind Turbine Components Market: Sales Value (in Million US\$), 2018 & 2023

Figure 75: Middle East and Africa: Wind Turbine Components Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 76: Global: Wind Turbine Components Industry: SWOT Analysis

Figure 77: Global: Wind Turbine Components Industry: Value Chain Analysis

Figure 78: Global: Wind Turbine Components Industry: Porter's Five Forces Analysis

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