

# **Global Wind Turbine Nacelle Market Size study, by Capacity (2 MW to 4 MW, Less than 2 MW, Above 4 MW), by Deployment (Onshore, Offshore), by End Use (Utilities, Industrial), by Component (Gearbox, Generator, Electronic Systems, Others) and Regional Forecasts 2022-2032**

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## **Abstracts**

Global Wind Turbine Nacelle Market is valued approximately at USD 22.21 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 6.23% over the forecast period 2024-2032. The wind turbine nacelle is the housing or enclosure atop the tower of a wind turbine where critical components such as the generator, gearbox, rotor shaft, and control electronics are housed. It contains machinery that converts wind energy into electrical energy. The nacelle is typically positioned so it rotates that allows it to face into the wind for optimal energy capture. In addition, it includes various sensors and control systems to optimize performance and monitor conditions. The demand for renewable energy has increased in recent years, driven by mounting concerns over climate change and the need to transition away from fossil fuels. This surge in demand for renewable energy has notably propelled the growth of the wind energy sector. As part of this expansion, there has been a significant rise in the development of offshore wind farms, particularly in regions with abundant offshore wind resources.

Governments around the world are implementing ambitious renewable energy targets and enacting supportive policies to accelerate the transition to cleaner energy sources. Subsidies, tax incentives, and renewable energy mandates incentivize investments in wind power infrastructure such as manufacturing and installation of wind turbine nacelles. These policy measures create a conducive environment for industry players to

expand their operations and meet the rising demand for nacelles. According to the International Energy Agency (IEA), in 2022 wind electricity generation increased by a record 265 TWh (up 14%), reaching more than 2,100 TWh. This was the second highest growth among all renewable power technologies, behind solar PV. All these factors are expected to drive the demand for the wind turbine nacelle market during the forecast period. However, the high initial cost of investment presents a substantial barrier to the growth of wind turbine nacelles, particularly in the context of expanding wind energy infrastructure. Wind turbine nacelles constitute a significant portion of the overall cost of wind energy projects, encompassing essential components such as the gearbox, generator, and control systems. As a result, the upfront capital required for nacelle procurement and installation is a deterrent for project developers and investors. All these factors hamper the wind turbine nacelle market growth.

The key regions considered for the global wind turbine nacelle market study include Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. In 2023, Asia-Pacific accounted for less than half of the global wind turbine nacelle market share and is expected to grow at an significant CAGR during the forecast period 2024-2032. The abundant wind resources in many parts of the Asia-Pacific region present a compelling opportunity for wind energy development. Countries such as China, India, Australia, and Japan have vast areas with strong and consistent wind speeds suitable for harnessing wind energy. As a result, there is a growing interest in exploiting these resources to diversify the energy mix and reduce reliance on fossil fuels. According to the International Energy Agency, Asia Pacific's energy demand and emissions is 50% and 60%, respectively, between 2022 and 2050. In addition, technological advancements and cost reductions in wind energy technology make wind power increasingly competitive with conventional energy sources in the Asia-Pacific region.

Major market player included in this report are:

Vestas

Goldwind

GE VERNOVA

Siemens Gamesa Renewable Energy

NORDEX SE

Envision Group

ENERCON Global GmbH

Suzlon Energy Limited

Mingyang Smart Energy Group

Windey Energy Technology Group Co., Ltd.

China Energy Group

CSIC Haizhuang Windpower

LM Wind Power

MingYang Wind Power Group Limited

Sinovel Wind Group Co., Ltd.

The detailed segments and sub-segment of the market are explained below:

By Capacity:

2 MW to 4 MW

Less than 2 MW

Above 4 MW

By Deployment:

Onshore

Offshore

By End Use:

Utilities

Industrial

By Component:

Gearbox

Generator

Electronic Systems

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Rest of Latin America

Middle East & Africa

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

*Global Wind Turbine Nacelle Market Size study, by Capacity (2 MW to 4 MW, Less than 2 MW, Above 4 MW), by Depl...*

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

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