

# Global Small Wind Power Market Size Study, by Grid Connectivity (On-Grid, Off-Grid), by Axis (Horizontal, Vertical), by Capacity (Up to 2kW, 2kW to 5kW, 5kW to 10kW), by Application (Residential, Commercial, Utility) and Regional Forecasts 2022-2032

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## Abstracts

Global Small Wind Power Market is valued at approximately USD 6.48 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 15.03% over the forecast period 2024-2032. Small wind power refers to the generation of electrical energy using wind turbines that are typically smaller in size and capacity compared to large, utility-scale wind farms. These systems are designed for residential, commercial, or small-scale industrial applications, with capacities usually ranging from a few hundred watts to several kilowatts. Small wind turbines harness wind energy to generate electricity for local use, often providing a sustainable alternative or supplement to traditional energy sources. They are particularly suitable for areas with moderate to strong wind resources and can be installed in various settings, including rural homes, farms, and small businesses. The adoption of small wind power systems has been gaining traction due to their capability to provide a reliable and sustainable source of energy, particularly in remote and rural areas. Rising investments in clean energy development and the growing utilization of small wind systems for commercial applications and rural households are pivotal factors driving the market expansion. The small wind power market is witnessing increased deployment due to the demand for energy independence and the need for sustainable electricity generation. These systems are particularly advantageous in regions with minimal grid connectivity, such as rural areas in India, China, and parts of Africa and South America. The global push towards renewable energy investments, as seen in nations such as India and China, is propelling the market forward. For instance, the State Investment Promotion Board (SIPB) of Andhra Pradesh, India, approved significant investments in renewable energy

projects in September 2022, including substantial capacity for small wind power systems. Furthermore, the horizontal axis wind turbine (HAWT) technology has significantly influenced market dynamics, with its main rotor shaft and electrical generator positioned at the top of the tower. The technological and economic benefits associated with HAWTs, such as low cost, ease of maintenance, and high efficiency, have made them the dominant choice in the small wind power market.

The key regions in the Global Small Wind Power Market includes North America, Europe, Asia Pacific, Latin America, and Middle East & Africa. In 2023, Europe leads the small wind power market, driven by a strong commitment to renewable energy and sustainability. The region's supportive regulatory frameworks, generous incentives, and ambitious climate goals have fostered significant growth in small wind power installations. European countries, such as the United Kingdom, Germany, and Denmark, have pioneered advancements in small wind turbine technology and deployment, supported by robust policies and funding programs. This leadership is further bolstered by Europe's extensive research and development efforts, which enhance the efficiency and affordability of small wind systems. The region's focus on decentralizing energy production and promoting clean energy sources continues to position Europe at the forefront of the global small wind power market. North America follows closely, with substantial investments in wind power capacity and supportive government policies driving growth. The Asia-Pacific region is expected to exhibit the fastest growth, supported by government initiatives and the rising demand for sustainable energy solutions.

Major market players included in this report are:

Northern Power Systems Corp.  
Kingspan Group Plc.  
Bergey Wind Power Co. Inc.  
S.L. (Spain)  
Ennera Energy and Mobility  
Eocycle Technologies Inc.  
Guangzhou HY Energy Technology Co. Ltd  
Shanghai Ghrepower Green Energy Co. Ltd  
Endurance Wind Power Inc.  
XZERES Wind Corporation  
City Windmills Holdings PLC  
Aeolos Wind Energy Ltd

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

By Grid Connectivity:

On-Grid  
Off-Grid

By Axis:  
Horizontal Axis  
Vertical Axis

By Capacity:  
Up to 2kW  
2kW to 5kW  
5kW to 10kW

By Application:  
Residential  
Commercial  
Utility

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.

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.

Demand side and supply side analysis of the market.

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