

# **Small Wind Market based on by Type (Horizontal Axis Wind Turbine, Vertical Axis Wind Turbine), by Application (On-Grid, Off-Grid), Regional Outlook–Global Forecast up to 2030**

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## **Abstracts**

At the summit of the tower are the horizontal axis wind turbine's (HAWT) primary rotor shaft and electrical generator. The market for small wind turbines is dominated by the horizontal axis sector. In contrast to the last ten years, when the bulk of small vertical axis wind turbines (VAWT) were produced, it has been manufactured for more than thirty years. The corresponding economic and technological benefits provide the little HAWT impetus. The tiny horizontal axis wind turbine's low cost, ease of maintenance, and lack of professional staff are advantageous to high-speed winds.

Small wind power is a versatile and adaptable way to generate sustainable electricity. These are utilized in tall structures, telecommunication towers, distant and rural places, farmhouses, and other stand-alone or grid-connected devices. Compared to its larger counterparts, little wind power is easier to build and operate and is located close to energy consumption areas. In countries like India, China, Africa, and other South American countries where there is little to no electric grid connectivity, the need for small wind power systems for household energy and water supply for irrigation in rural areas will rise, boosting the global small wind power market CAGR in recent years.

Research Methodology:

After secondary research provided a fundamental understanding of the worldwide Small Wind 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 Small Wind 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.

Small Wind Market based on Type:

Horizontal Axis Wind Turbine

Vertical Axis Wind Turbine

Small Wind Market based on Application:

On-Grid

Off-Grid

Small Wind 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

The little wind generator On-grid and off-grid market segmentation is based on grid connectivity. In 2021, the off-grid category accounted for the majority of revenue generated by the small wind power market. Small wind power systems are often smaller and off the grid. Off-grid connectivity is appealing because it allows users to fully meet their own energy needs. There are several possible uses for modest off-grid wind power generators. Numerous buildings, such as homes, farms, ranches, logging camps, etc., can get electricity from the system.

There are two axes in the Small Wind Power Market segmentation: a horizontal axis and a vertical axis. Due to its high efficiency and low installation and maintenance costs, the horizontal axis segment dominated the market in 2021 and is anticipated to develop at a quicker rate over the forecast period of 2022–2030. Aside from unconventional solutions including one- and two-bladed designs, the conventional three-bladed layout commands 99% of the market share of all operational horizontal axis small wind power. Three blades is the minimum number of blades, which simplifies the control of centrifugal body forces and thereby boosts market expansion.

Data from the Small Wind Power Market has been divided into three categories based on capacity: up to 2 kW, 2 kW to 5 kW, and 5 kW to 10 kW. In 2021, the market was dominated by the 5 kW to 10 kW capacity sector, which is expected to increase at a quicker rate between 2022 and 2030. A 5 kW to 10 kW small wind power system can be connected to the grid in two ways: independently, or off-grid, and with the help of a power supplier. Wind power systems are therefore a sensible option, especially in isolated locations without connection to electrical networks.

Leading players of the market, such as Northern Power Systems Inc. (U.S.), Bergey Wind Power Co. (U.S.), Kingspan Group Plc. (Netherlands), and Xzeres Wind Corp. (U.K.) have been profiled to provide an insight into the competitive scenario of the market. New product development has been the key strategy adopted by leading companies to accommodate the fast-changing technologies in the application areas and to increase their market share.

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

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

This report presents the predictions of the past and present trends of the Small Wind Market.

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

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