

# Global Vertical-axis Wind Turbines (VAWTs) Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global Vertical-axis Wind Turbines (VAWTs) market size was valued at USD 15470 million in 2023 and is forecast to a readjusted size of USD 20510 million by 2030 with a CAGR of 4.1% during review period.

Vertical-axis wind turbines (VAWTs) are a type of wind turbine where the main rotor shaft is set vertically and the main components are located at the base of the turbine. This arrangement allows the generator and gearbox to be located close to the ground, facilitating service and repair. VAWTs do not need to be pointed into the wind, which removes the need for wind-sensing and orientation mechanisms. Vertical axis wind turbines offer several potential advantages over the standard horizontal axis wind turbines which are now in common use worldwide.

According to the Global Wind Report 2023 released by the Global Wind Energy Council, by 2024, the newly installed capacity of global onshore wind power will exceed 100GW for the first time; by 2025, the newly installed capacity of global offshore wind power will also reach 25GW. In the next five years, the newly added grid-connected capacity of wind power will reach 680GW. The report also shows that the United States and Europe may experience a supply bottleneck of wind turbines and components in 2025. It recommends that national policymakers take immediate action to increase investment in supply chains to meet their rapid growth in demand and avoid supply chain bottlenecks hindering the development of wind power. In addition, according to Wood Mackenzie statistics, China is the largest and fastest-growing market for wind power generation in the world, accounting for more than half of the market share. Data from the National Energy Administration of China also shows that China's installed wind power capacity

ranks first in the world, with a capacity of nearly 400 million kilowatts.

The Global Info Research report includes an overview of the development of the Vertical-axis Wind Turbines (VAWTs) industry chain, the market status of Residential (Darrieus, Savonius), Commercial and industrial (Darrieus, Savonius), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Vertical-axis Wind Turbines (VAWTs).

Regionally, the report analyzes the Vertical-axis Wind Turbines (VAWTs) markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Vertical-axis Wind Turbines (VAWTs) market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Vertical-axis Wind Turbines (VAWTs) market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Vertical-axis Wind Turbines (VAWTs) industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Darrieus, Savonius).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Vertical-axis Wind Turbines (VAWTs) market.

**Regional Analysis:** The report involves examining the Vertical-axis Wind Turbines (VAWTs) market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Vertical-axis Wind Turbines (VAWTs) market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Vertical-axis Wind Turbines (VAWTs):

**Company Analysis:** Report covers individual Vertical-axis Wind Turbines (VAWTs) manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Vertical-axis Wind Turbines (VAWTs) This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Residential, Commercial and industrial).

**Technology Analysis:** Report covers specific technologies relevant to Vertical-axis Wind Turbines (VAWTs). It assesses the current state, advancements, and potential future developments in Vertical-axis Wind Turbines (VAWTs) areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Vertical-axis Wind Turbines (VAWTs) market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

Vertical-axis Wind Turbines (VAWTs) market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

## Market segment by Type

Darrieus

Savonius

#### Market segment by Application

Residential

Commercial and industrial

Fishery and recreational boats

Hybrid systems

Others

#### Major players covered

UGE

Helix Wind

WindHarvest

Astralux

Kliux Energies

Sycamore Energy

Ropatec

Arborwind

Quietrevolution

Turbina

Luethi Enterprises

Aeolos

Oy Windside Production

Eastern Wind Power

Windspire Energy

SAW

MUCE

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Vertical-axis Wind Turbines (VAWTs) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Vertical-axis Wind Turbines (VAWTs), with price, sales, revenue and global market share of Vertical-axis Wind Turbines (VAWTs) from 2019 to 2024.

Chapter 3, the Vertical-axis Wind Turbines (VAWTs) competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Vertical-axis Wind Turbines (VAWTs) breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Vertical-axis Wind Turbines (VAWTs) market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Vertical-axis Wind Turbines (VAWTs).

Chapter 14 and 15, to describe Vertical-axis Wind Turbines (VAWTs) sales channel, distributors, customers, research findings and conclusion.

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