

Global Small Wind Turbine Market Size study & Forecast, by Application (On-grid, Off-grid), by Axis Type (Horizontal Axis Wind Turbines, Vertical Axis Wind Turbines) and Regional Analysis, 2023-2030

<https://marketpublishers.com/r/G87851DA71C5EN.html>

Date: October 2023

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: G87851DA71C5EN

Abstracts

Global Small Wind Turbine Market is valued at approximately USD 1.20 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 9.22% over the forecast period 2023-2030. A small wind turbine, also known as a micro wind turbine or residential wind turbine, is a device that harnesses the power of the wind to generate electricity on a smaller scale. It is designed to be used in residential, rural, or small commercial settings with sufficient wind resources. The generated electricity can be used to power various electrical devices, charge batteries for energy storage, or even be fed back into the electrical grid if the system is grid-connected. Small wind turbines are commonly used in off-grid applications, such as powering remote homes, cabins, boats, telecommunications equipment, and water pumping systems. The Small Wind Turbine market is expanding because of factors such as stringent government regulations towards carbon emissions and an increase in demand for efficient electricity.

Governments around the world are recognizing the importance of renewable energy sources and taking initiatives for reducing greenhouse gas emissions and combating climate change. As a result, they have implemented various policies, incentives, and regulations to promote the adoption of renewable energy technologies, including wind power, which is driving the market growth. For instance, The Chinese government, On September 22, 2020, declared that China would enhance its Intended Nationally Determined Contributions by enacting more forceful policies and efforts it also aims to become carbon neutral by 2060, with the peak of CO2 emissions occurring by 2030. Similarly, the German government established further targets in July 2021 to cut carbon emissions and attain greenhouse gas neutrality by 2045. The country wants to cut its

carbon emissions by 65% by 2030 and 88% by 2040. Thus, rising government initiatives for limiting carbon emission is driving market growth. In addition, technological advancements in the small wind power industry and rising investment in the industry are creating lucrative opportunities for the market. However, the availability and adoption of alternative distributed generation sources and high initial costs stifle market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Small Wind Turbine Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to the dominance of key market players, rising adoption of renewable sources of energy and rising government initiatives. Asia Pacific is expected to grow significantly during the forecast period, owing to factors such as the rising residential industry, geographic expansion of key players, and active participation of government and nonprofit organizations in the market space.

Major market player included in this report are:

Aeolos Wind Energy Ltd

Bergey Wind Power Co.

City Windmills Holdings PLC

Wind Energy Solutions

SD Wind Energy Limited

UNITRON Energy Systems Pvt. Ltd

Northern Power Systems Inc.

Shanghai Ghrepower Green Energy Co. Ltd

TUGE Energia OU

Ryse Energy

Recent Developments in the Market:

In February 2023, German wind turbine maker BRAUN Windturbinen GmbH announced the installation of 7.5 KW of small wind turbines. With the Smart Wind SW7.5 and a 6.0 kW heating rod acting as a backup heating system, the system runs in three-phases parallel to the grid. The heating rod is automatically turned on in accordance with the turbine characteristic curve when 2.5 kW is reached in grid-parallel operation. The little wind turbine has a programmable and installed system for monitoring the temperature of household hot water.

In April 2021, Engie announced its collaboration with Eocycle to offer consumers in Belgium a collection of dispersed green energy solutions resembling a miniature wind turbine. The EOX M-26 is a horizontal axis wind turbine with a tip height of 51 metres, a 90kW turbine, and an annual energy output of around 260 MWh.

Global Small Wind Turbine Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Application, Axis Type, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries

involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Application:

On-grid

Off-grid

By Axis Type:

Horizontal Axis Wind Turbines

Vertical Axis Wind Turbines

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

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

Contents

CHAPTER 1. EXECUTIVE SUMMARY

- 1.1. Market Snapshot
- 1.2. Global & Segmental Market Estimates & Forecasts, 2020-2030 (USD Billion)
 - 1.2.1. Small Wind Turbine Market, by Region, 2020-2030 (USD Billion)
 - 1.2.2. Small Wind Turbine Market, by Application, 2020-2030 (USD Billion)
 - 1.2.3. Small Wind Turbine Market, by Axis Type, 2020-2030 (USD Billion)
- 1.3. Key Trends
- 1.4. Estimation Methodology
- 1.5. Research Assumption

CHAPTER 2. GLOBAL SMALL WIND TURBINE MARKET DEFINITION AND SCOPE

- 2.1. Objective of the Study
- 2.2. Market Definition & Scope
 - 2.2.1. Industry Evolution
 - 2.2.2. Scope of the Study
- 2.3. Years Considered for the Study
- 2.4. Currency Conversion Rates

CHAPTER 3. GLOBAL SMALL WIND TURBINE MARKET DYNAMICS

- 3.1. Small Wind Turbine Market Impact Analysis (2020-2030)
 - 3.1.1. Market Drivers
 - 3.1.1.1. Stringent government regulations towards carbon emissions
 - 3.1.1.2. Increase in demand for efficient electricity.
 - 3.1.2. Market Challenges
 - 3.1.2.1. Availability and adoption of alternative distributed generation sources
 - 3.1.2.2. High Initial Costs
 - 3.1.3. Market Opportunities
 - 3.1.3.1. Technological advancements in the small wind power industry
 - 3.1.3.2. Rising investment in the industry

CHAPTER 4. GLOBAL SMALL WIND TURBINE MARKET INDUSTRY ANALYSIS

- 4.1. Porter's 5 Force Model
 - 4.1.1. Bargaining Power of Suppliers

- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry
- 4.2. Porter's 5 Force Impact Analysis
- 4.3. PEST Analysis
 - 4.3.1. Political
 - 4.3.2. Economical
 - 4.3.3. Social
 - 4.3.4. Technological
 - 4.3.5. Environmental
 - 4.3.6. Legal
- 4.4. Top investment opportunity
- 4.5. Top winning strategies
- 4.6. COVID-19 Impact Analysis
- 4.7. Disruptive Trends
- 4.8. Industry Expert Perspective
- 4.9. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL SMALL WIND TURBINE MARKET, BY APPLICATION

- 5.1. Market Snapshot
- 5.2. Global Small Wind Turbine Market by Application, Performance - Potential Analysis
- 5.3. Global Small Wind Turbine Market Estimates & Forecasts by Application 2020-2030 (USD Billion)
- 5.4. Small Wind Turbine Market, Sub Segment Analysis
 - 5.4.1. On-Grid
 - 5.4.2. Off-Grid

CHAPTER 6. GLOBAL SMALL WIND TURBINE MARKET, BY AXIS TYPE

- 6.1. Market Snapshot
- 6.2. Global Small Wind Turbine Market by Axis Type, Performance - Potential Analysis
- 6.3. Global Small Wind Turbine Market Estimates & Forecasts by Axis Type 2020-2030 (USD Billion)
- 6.4. Small Wind Turbine Market, Sub Segment Analysis
 - 6.4.1. Horizontal Axis Wind Turbines
 - 6.4.2. Vertical Axis Wind Turbines

CHAPTER 7. GLOBAL SMALL WIND TURBINE MARKET, REGIONAL ANALYSIS

- 7.1. Top Leading Countries
- 7.2. Top Emerging Countries
- 7.3. Small Wind Turbine Market, Regional Market Snapshot
- 7.4. North America Small Wind Turbine Market
 - 7.4.1. U.S. Small Wind Turbine Market
 - 7.4.1.1. Application breakdown estimates & forecasts, 2020-2030
 - 7.4.1.2. Axis Type breakdown estimates & forecasts, 2020-2030
 - 7.4.2. Canada Small Wind Turbine Market
- 7.5. Europe Small Wind Turbine Market Snapshot
 - 7.5.1. U.K. Small Wind Turbine Market
 - 7.5.2. Germany Small Wind Turbine Market
 - 7.5.3. France Small Wind Turbine Market
 - 7.5.4. Spain Small Wind Turbine Market
 - 7.5.5. Italy Small Wind Turbine Market
 - 7.5.6. Rest of Europe Small Wind Turbine Market
- 7.6. Asia-Pacific Small Wind Turbine Market Snapshot
 - 7.6.1. China Small Wind Turbine Market
 - 7.6.2. India Small Wind Turbine Market
 - 7.6.3. Japan Small Wind Turbine Market
 - 7.6.4. Australia Small Wind Turbine Market
 - 7.6.5. South Korea Small Wind Turbine Market
 - 7.6.6. Rest of Asia Pacific Small Wind Turbine Market
- 7.7. Latin America Small Wind Turbine Market Snapshot
 - 7.7.1. Brazil Small Wind Turbine Market
 - 7.7.2. Mexico Small Wind Turbine Market
- 7.8. Middle East & Africa Small Wind Turbine Market
 - 7.8.1. Saudi Arabia Small Wind Turbine Market
 - 7.8.2. South Africa Small Wind Turbine Market
 - 7.8.3. Rest of Middle East & Africa Small Wind Turbine Market

CHAPTER 8. COMPETITIVE INTELLIGENCE

- 8.1. Key Company SWOT Analysis
 - 8.1.1. Company
 - 8.1.2. Company
 - 8.1.3. Company
- 8.2. Top Market Strategies

8.3. Company Profiles

- 8.3.1. Aeolos Wind Energy Ltd
 - 8.3.1.1. Key Information
 - 8.3.1.2. Overview
 - 8.3.1.3. Financial (Subject to Data Availability)
 - 8.3.1.4. Product Summary
 - 8.3.1.5. Recent Developments
- 8.3.2. Bergey Wind Power Co.
- 8.3.3. City Windmills Holdings PLC
- 8.3.4. Wind Energy Solutions
- 8.3.5. SD Wind Energy Limited
- 8.3.6. UNITRON Energy Systems Pvt. Ltd
- 8.3.7. Northern Power Systems Inc.
- 8.3.8. Shanghai Ghrepower Green Energy Co. Ltd
- 8.3.9. TUGE Energia OU
- 8.3.10. Ryse Energy

CHAPTER 9. RESEARCH PROCESS

9.1. Research Process

- 9.1.1. Data Mining
- 9.1.2. Analysis
- 9.1.3. Market Estimation
- 9.1.4. Validation
- 9.1.5. Publishing

9.2. Research Attributes

9.3. Research Assumption

List of Tables

TABLE 1. Global Small Wind Turbine Market, report scope

TABLE 2. Global Small Wind Turbine Market estimates & forecasts by Region
2020-2030 (USD Billion)

TABLE 3. Global Small Wind Turbine Market estimates & forecasts by Application
2020-2030 (USD Billion)

TABLE 4. Global Small Wind Turbine Market estimates & forecasts by Axis Type
2020-2030 (USD Billion)

TABLE 5. Global Small Wind Turbine Market by segment, estimates & forecasts,
2020-2030 (USD Billion)

TABLE 6. Global Small Wind Turbine Market by region, estimates & forecasts,
2020-2030 (USD Billion)

TABLE 7. Global Small Wind Turbine Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 8. Global Small Wind Turbine Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 9. Global Small Wind Turbine Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 10. Global Small Wind Turbine Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 11. Global Small Wind Turbine Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 12. Global Small Wind Turbine Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 13. Global Small Wind Turbine Market by segment, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 14. Global Small Wind Turbine Market by region, estimates & forecasts, 2020-2030 (USD Billion)

TABLE 15. U.S. Small Wind Turbine Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 16. U.S. Small Wind Turbine Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 17. U.S. Small Wind Turbine Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 18. Canada Small Wind Turbine Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 19. Canada Small Wind Turbine Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 20. Canada Small Wind Turbine Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 21. UK Small Wind Turbine Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 22. UK Small Wind Turbine Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 23. UK Small Wind Turbine Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 24. Germany Small Wind Turbine Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 25. Germany Small Wind Turbine Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 26. Germany Small Wind Turbine Market estimates & forecasts by segment

2020-2030 (USD Billion)

TABLE 27. France Small Wind Turbine Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 28. France Small Wind Turbine Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 29. France Small Wind Turbine Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 30. Italy Small Wind Turbine Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 31. Italy Small Wind Turbine Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 32. Italy Small Wind Turbine Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 33. Spain Small Wind Turbine Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 34. Spain Small Wind Turbine Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 35. Spain Small Wind Turbine Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 36. RoE Small Wind Turbine Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 37. RoE Small Wind Turbine Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 38. RoE Small Wind Turbine Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 39. China Small Wind Turbine Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 40. China Small Wind Turbine Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 41. China Small Wind Turbine Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 42. India Small Wind Turbine Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 43. India Small Wind Turbine Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 44. India Small Wind Turbine Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 45. Japan Small Wind Turbine Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 46. Japan Small Wind Turbine Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 47. Japan Small Wind Turbine Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 48. South Korea Small Wind Turbine Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 49. South Korea Small Wind Turbine Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 50. South Korea Small Wind Turbine Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 51. Australia Small Wind Turbine Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 52. Australia Small Wind Turbine Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 53. Australia Small Wind Turbine Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 54. RoAPAC Small Wind Turbine Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 55. RoAPAC Small Wind Turbine Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 56. RoAPAC Small Wind Turbine Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 57. Brazil Small Wind Turbine Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 58. Brazil Small Wind Turbine Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 59. Brazil Small Wind Turbine Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 60. Mexico Small Wind Turbine Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 61. Mexico Small Wind Turbine Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 62. Mexico Small Wind Turbine Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 63. RoLA Small Wind Turbine Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 64. RoLA Small Wind Turbine Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 65. RoLA Small Wind Turbine Market estimates & forecasts by segment

2020-2030 (USD Billion)

TABLE 66. Saudi Arabia Small Wind Turbine Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 67. South Africa Small Wind Turbine Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 68. RoMEA Small Wind Turbine Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 69. List of secondary sources, used in the study of global Small Wind Turbine Market

TABLE 70. List of primary sources, used in the study of global Small Wind Turbine Market

TABLE 71. Years considered for the study

TABLE 72. Exchange rates considered

List of tables and figures and dummy in nature, final lists may vary in the final deliverable

List of figures

FIG 1. Global Small Wind Turbine Market, research methodology

FIG 2. Global Small Wind Turbine Market, Market estimation techniques

FIG 3. Global Market size estimates & forecast methods

FIG 4. Global Small Wind Turbine Market, key trends 2022

FIG 5. Global Small Wind Turbine Market, growth prospects 2023-2030

FIG 6. Global Small Wind Turbine Market, porters 5 force model

FIG 7. Global Small Wind Turbine Market, pest analysis

FIG 8. Global Small Wind Turbine Market, value chain analysis

FIG 9. Global Small Wind Turbine Market by segment, 2020 & 2030 (USD Billion)

FIG 10. Global Small Wind Turbine Market by segment, 2020 & 2030 (USD Billion)

FIG 11. Global Small Wind Turbine Market by segment, 2020 & 2030 (USD Billion)

FIG 12. Global Small Wind Turbine Market by segment, 2020 & 2030 (USD Billion)

FIG 13. Global Small Wind Turbine Market by segment, 2020 & 2030 (USD Billion)

FIG 14. Global Small Wind Turbine Market, regional snapshot 2020 & 2030

FIG 15. North America Small Wind Turbine Market 2020 & 2030 (USD Billion)

FIG 16. Europe Small Wind Turbine Market 2020 & 2030 (USD Billion)

FIG 17. Asia pacific Small Wind Turbine Market 2020 & 2030 (USD Billion)

FIG 18. Latin America Small Wind Turbine Market 2020 & 2030 (USD Billion)

FIG 19. Middle East & Africa Small Wind Turbine Market 2020 & 2030 (USD Billion)

List of tables and figures and dummy in nature, final lists may vary in the final deliverable

I would like to order

Product name: Global Small Wind Turbine Market Size study & Forecast, by Application (On-gird, Off-grid), by Axis Type (Horizontal Axis Wind Turbines, Vertical Axis Wind Turbines) and Regional Analysis, 2023-2030

Product link: <https://marketpublishers.com/r/G87851DA71C5EN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G87851DA71C5EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below

and fax the completed form to +44 20 7900 3970