

# **Global Wind Turbine Foundation Market Size Study & Forecast, by Type (Mono Pile, Jacket Pile, Gravity, Tripod, Others), By Application (Onshore, Offshore), and Regional Analysis, 2023-2030**

<https://marketpublishers.com/r/G42D6C6E1499EN.html>

Date: April 2024

Pages: 200

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

ID: G42D6C6E1499EN

## **Abstracts**

Global Wind Turbine Foundation Market is valued at approximately USD XX billion in 2022 and is anticipated to grow with a healthy growth rate of more than XX% over the forecast period 2023-2030. Wind turbine foundation is a structural component that supports the entire weight of a wind turbine and transfers the loads generated by wind forces, gravity, and other environmental factors to the ground. It serves as the base upon which the tower, nacelle (housing the generator and other components), and rotor assembly (blades) are mounted. Moreover, the increasing demand for renewable energy, cohesive government support and policies, and rising environmental awareness are anticipated to create a lucrative demand for the market during the forecast period 2023-2030.

Additionally, the growth of wind farms directly supports the expansion of the wind turbine foundation market. As the number of wind farms grows globally, there is a corresponding increase in demand for wind turbine foundations. Each wind turbine within a wind farm requires a foundation to support its weight and ensure stability, making foundations an essential component of wind energy infrastructure. According to Statista, in 2019, the cumulative installed capacity of offshore wind turbine in the United Kingdom was 9,888 megawatts and the offshore wind farms are increasing significantly and the number reached 13,928 megawatts in 2022. Also, in 2022, the French government signed an offshore sector agreement with France's wind industry. The deal recognizes that offshore wind has substantial energy and industrial opportunities. By 2050, France will have to construct 40 GW of offshore wind capacity across 50 wind farms, which is likely to lead to significant advancements in offshore wind power. As a

result, the growing wind farms are anticipated to create a lucrative opportunity for the market during the forecast period 2023-2030. Moreover, the expansion of offshore wind energy and rapid technological developments in wind turbines and wind farms are anticipated to create a lucrative opportunity for the market. However, the site-specific challenges coupled with costs and maintenance, and regulatory challenges coupled with environmental concerns stifle market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Wind Turbine Foundation Market study include Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to the increasing demand for renewable energy, cohesive government support and policies, advancements in wind turbine technology, and growing infrastructure development. Asia Pacific is expected to grow with the fastest growth rate during the forecast period, owing to factors such as the rapid expansion of wind energy capacity, increasing demand for electricity, advancements in wind technology, and a growing focus on offshore wind energy.

Major market players included in this report are:

Vestas Wind Systems (Denmark)

Peikko Group Corporation (Finland)

ACCIONA (Spain)

RUTE Foundation Systems (U.K.)

Smart & Green Mukran Concrete GmbH (Germany)

Pemamek Oy (Finland)

JFE Engineering Corporation (Japan)

CREADIS (Denmark)

Bladt Industries A/S (Denmark)

Seewind Wind Energy Systems GmbH (Germany)

## Recent Developments in the Market:

In April 2023, ACCIONA and Orsted, leading renewable energy firms, entered into a Memorandum of Understanding (MOU) to tackle the manufacturing challenges associated with large foundations for offshore wind farms. This collaboration aims to innovate and design scalable solutions suitable for offshore wind farms of varying sizes and depths. The focus lies on developing cost-effective approaches for mass production, with a particular emphasis on leveraging floating concrete platforms. Furthermore, the partnership involves research into the utilization of materials like bio-cement, presenting potential advancements in the manufacturing processes of these foundations.

## Global Wind Turbine Foundation 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 - Type, Application, Region

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

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

The objective of the study is to define the market sizes of different segments & countries in recent years and to forecast the values for 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 to detailed information about the crucial aspects such as driving factors & challenges that will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Type:

Mono Pile

Jacket Pile

Gravity

Tripod

Others

By Application:

Onshore

Offshore

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. Wind Turbine Foundation Market, by Region, 2020-2030 (USD Billion)
  - 1.2.2. Wind Turbine Foundation Market, by Type, 2020-2030 (USD Billion)
  - 1.2.3. Wind Turbine Foundation Market, by Application, 2020-2030 (USD Billion)
- 1.3. Key Trends
- 1.4. Estimation Methodology
- 1.5. Research Assumption

### **CHAPTER 2. GLOBAL WIND TURBINE FOUNDATION 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 WIND TURBINE FOUNDATION MARKET DYNAMICS**

- 3.1. Wind Turbine Foundation Market Impact Analysis (2020-2030)
  - 3.1.1. Market Drivers
    - 3.1.1.1. Increasing demand for renewable energy
    - 3.1.1.2. Cohesive government support and policies
    - 3.1.1.3. Rising environmental awareness
  - 3.1.2. Market Challenges
    - 3.1.2.1. Site-specific challenges coupled with costs and maintenance issues
    - 3.1.2.2. Regulatory challenges coupled with environmental concerns
  - 3.1.3. Market Opportunities
    - 3.1.3.1. Expansion of offshore wind energy
    - 3.1.3.2. Rapid technological developments in wind turbines and wind farms

### **CHAPTER 4. GLOBAL WIND TURBINE FOUNDATION 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 WIND TURBINE FOUNDATION MARKET, BY TYPE**

- 5.1. Market Snapshot
- 5.2. Global Wind Turbine Foundation Market by Type, Performance - Potential Analysis
- 5.3. Global Wind Turbine Foundation Market Estimates & Forecasts by Type 2020-2030 (USD Billion)
- 5.4. Wind Turbine Foundation Market, Sub Segment Analysis
  - 5.4.1. Mono Pile
  - 5.4.2. Jacket Pile
  - 5.4.3. Gravity
  - 5.4.4. Tripod
  - 5.4.5. Others

## **CHAPTER 6. GLOBAL WIND TURBINE FOUNDATION MARKET, BY APPLICATION**

- 6.1. Market Snapshot
- 6.2. Global Wind Turbine Foundation Market by Application, Performance - Potential

## Analysis

### 6.3. Global Wind Turbine Foundation Market Estimates & Forecasts by Application 2020-2030 (USD Billion)

#### 6.4. Wind Turbine Foundation Market, Sub Segment Analysis

##### 6.4.1. Onshore

##### 6.4.2. Offshore

## **CHAPTER 7. GLOBAL WIND TURBINE FOUNDATION MARKET, REGIONAL ANALYSIS**

### 7.1. Top Leading Countries

### 7.2. Top Emerging Countries

### 7.3. Wind Turbine Foundation Market, Regional Market Snapshot

#### 7.4. North America Wind Turbine Foundation Market

##### 7.4.1. U.S. Wind Turbine Foundation Market

###### 7.4.1.1. Type breakdown estimates & forecasts, 2020-2030

###### 7.4.1.2. Application breakdown estimates & forecasts, 2020-2030

##### 7.4.2. Canada Wind Turbine Foundation Market

#### 7.5. Europe Wind Turbine Foundation Market Snapshot

##### 7.5.1. U.K. Wind Turbine Foundation Market

##### 7.5.2. Germany Wind Turbine Foundation Market

##### 7.5.3. France Wind Turbine Foundation Market

##### 7.5.4. Spain Wind Turbine Foundation Market

##### 7.5.5. Italy Wind Turbine Foundation Market

##### 7.5.6. Rest of Europe Wind Turbine Foundation Market

#### 7.6. Asia-Pacific Wind Turbine Foundation Market Snapshot

##### 7.6.1. China Wind Turbine Foundation Market

##### 7.6.2. India Wind Turbine Foundation Market

##### 7.6.3. Japan Wind Turbine Foundation Market

##### 7.6.4. Australia Wind Turbine Foundation Market

##### 7.6.5. South Korea Wind Turbine Foundation Market

##### 7.6.6. Rest of Asia Pacific Wind Turbine Foundation Market

#### 7.7. Latin America Wind Turbine Foundation Market Snapshot

##### 7.7.1. Brazil Wind Turbine Foundation Market

##### 7.7.2. Mexico Wind Turbine Foundation Market

#### 7.8. Middle East & Africa Wind Turbine Foundation Market

##### 7.8.1. Saudi Arabia Wind Turbine Foundation Market

##### 7.8.2. South Africa Wind Turbine Foundation Market

##### 7.8.3. Rest of Middle East & Africa Wind Turbine Foundation 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. Vestas Wind Systems (Denmark)

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. Peikko Group Corporation (Finland)

8.3.3. ACCIONA (Spain)

8.3.4. RUTE Foundation Systems (U.K.)

8.3.5. Smart & Green Mukran Concrete GmbH (Germany)

8.3.6. Pemamek Oy (Finland)

8.3.7. JFE Engineering Corporation (Japan)

8.3.8. CREADIS (Denmark)

8.3.9. Bladt Industries A/S (Denmark)

8.3.10. Seewind Wind Energy Systems GmbH (Germany)

## **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

## **12 .LIST OF TABLES**

### TABLE 1. Global Wind Turbine Foundation Market, report scope

*Global Wind Turbine Foundation Market Size Study & Forecast, by Type (Mono Pile, Jacket Pile, Gravity, Tripod,...*

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

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

TABLE 4. Global Wind Turbine Foundation Market estimates & forecasts by Application 2020-2030 (USD Billion)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

TABLE 21. UK Wind Turbine Foundation Market estimates & forecasts, 2020-2030

(USD Billion)

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

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

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

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

TABLE 26. Germany Wind Turbine Foundation Market estimates & forecasts by segment 2020-2030 (USD Billion)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

TABLE 60. Mexico Wind Turbine Foundation Market estimates & forecasts, 2020-2030

(USD Billion)

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

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

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

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

TABLE 65. RoLA Wind Turbine Foundation Market estimates & forecasts by segment 2020-2030 (USD Billion)

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

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

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

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

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

### LIST OF FIGURES

- FIG 1. Global Wind Turbine Foundation Market, research methodology
- FIG 2. Global Wind Turbine Foundation Market, Market estimation techniques
- FIG 3. Global Market size estimates & forecast methods
- FIG 4. Global Wind Turbine Foundation Market, key trends 2022
- FIG 5. Global Wind Turbine Foundation Market, growth prospects 2023-2030
- FIG 6. Global Wind Turbine Foundation Market, porters 5 force model
- FIG 7. Global Wind Turbine Foundation Market, pest analysis
- FIG 8. Global Wind Turbine Foundation Market, value chain analysis
- FIG 9. Global Wind Turbine Foundation Market by segment, 2020 & 2030 (USD Billion)
- FIG 10. Global Wind Turbine Foundation Market by segment, 2020 & 2030 (USD Billion)
- FIG 11. Global Wind Turbine Foundation Market by segment, 2020 & 2030 (USD Billion)
- FIG 12. Global Wind Turbine Foundation Market by segment, 2020 & 2030 (USD Billion)
- FIG 13. Global Wind Turbine Foundation Market by segment, 2020 & 2030 (USD Billion)
- FIG 14. Global Wind Turbine Foundation Market, regional snapshot 2020 & 2030
- FIG 15. North America Wind Turbine Foundation Market 2020 & 2030 (USD Billion)
- FIG 16. Europe Wind Turbine Foundation Market 2020 & 2030 (USD Billion)
- FIG 17. Asia Pacific Wind Turbine Foundation Market 2020 & 2030 (USD Billion)
- FIG 18. Latin America Wind Turbine Foundation Market 2020 & 2030 (USD Billion)
- FIG 19. Middle East & Africa Wind Turbine Foundation 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 Wind Turbine Foundation Market Size Study & Forecast, by Type (Mono Pile, Jacket Pile, Gravity, Tripod, Others), By Application (Onshore, Offshore), and Regional Analysis, 2023-2030

Product link: <https://marketpublishers.com/r/G42D6C6E1499EN.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](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G42D6C6E1499EN.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