

Offshore Wind Turbine Market Size, Share & Trends Analysis Report, By Capacity (Up to 3 MW, 3 MW–5 MW, Above 5 MW), By Water Depth (Shallow Water (

Abstracts

This report can be delivered to the clients within 8 Business Days

Offshore Wind Turbine Market Growth & Trends

The global offshore wind turbine market size is anticipated to reach USD 38.13 billion by 2030 and is anticipated to expand at a CAGR of 11.5% during the forecast period, according to a new report by Grand View Research, Inc. The market is driven by the increasing focus on reducing the global carbon footprint and the rising demand for renewable energy sources. Governments and electrical companies are boosting their efforts to cut carbon emissions, which is a significant factor driving market growth.

The offshore wind turbine market is experiencing a trend of industrial expansion, including within the wind power sector, to overcome the growing need for clean, affordable, and diverse electricity. Offshore wind energy is a crucial clean energy solution for large communities seeking more energy from clean sources, and decreasing costs are making it a more accessible option.

The increasing development and deployment of floating offshore wind turbine technology. Floating offshore wind turbine technology is rapidly gaining attraction in the global renewable energy sector, offering a viable solution for utilizing wind power in deep waters where traditional fixed turbines are impractical. This innovation is opening up new markets and investment opportunities for energy companies, infrastructure developers, and supply chain partners. For instance, in October 2023, SBM Offshore successfully installed three floating wind units for the Provence Grand Large pilot project off the coast of France, marking a key milestone in their engineering and installation efforts. This 25 MW pilot farm, using advanced tension leg floaters with 8.4 MW turbines, is expected to generate enough electricity to power 45,000 homes, showcasing SBM offshore's commitment to clean energy and innovation.

Offshore Wind Turbine Market Report Highlights

In terms of capacity, the above 5 MW segment dominated the market in 2024 with the largest revenue share of over 40% in 2024 and is expected to grow at

the fastest CAGR over the forecast period due to advanced capacity and low costs. Higher power rating turbines are in high demand to make offshore wind turbine power generation more energy-efficient and economically sustainable.

The shallow water (

Contents

CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Market Segmentation & Scope
- 1.2. Segment Definitions
 - 1.2.1. Capacity
 - 1.2.2. Water Depth
 - 1.2.3. Regional scope
 - 1.2.4. Estimates and forecasts timeline
- 1.3. Research Methodology
- 1.4. Information Procurement
 - 1.4.1. Purchased database
 - 1.4.2. GVR's internal database
 - 1.4.3. Secondary sources
 - 1.4.4. Primary research
 - 1.4.5. Details of primary research
- 1.5. Information or Data Analysis
 - 1.5.1. Data analysis models
- 1.6. Market Formulation & Validation
- 1.7. Model Details
- 1.8. List of Secondary Sources
- 1.9. List of Primary Sources
- 1.10. Objectives

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Market Outlook
- 2.2. Segment Outlook
 - 2.2.1. Capacity outlook
 - 2.2.2. Water Depth outlook
 - 2.2.3. Regional outlook
- 2.3. Competitive Insights

CHAPTER 3. OFFSHORE WIND TURBINE MARKET VARIABLES, TRENDS & SCOPE

- 3.1. Market Lineage Outlook
 - 3.1.1. Parent market outlook

- 3.1.2. Related/ancillary market outlook
- 3.2. Market Dynamics
 - 3.2.1. Market driver analysis
 - 3.2.2. Market restraint analysis
- 3.3. Offshore Wind Turbine Market Analysis Tools
 - 3.3.1. Industry Analysis - Porter's
 - 3.3.1.1. Supplier power
 - 3.3.1.2. Buyer power
 - 3.3.1.3. Substitution threat
 - 3.3.1.4. Threat of new entrant
 - 3.3.1.5. Competitive rivalry
 - 3.3.2. PESTEL Analysis
 - 3.3.2.1. Political landscape
 - 3.3.2.2. Technological landscape
 - 3.3.2.3. Economic landscape

CHAPTER 4. OFFSHORE WIND TURBINE MARKET: CAPACITY ESTIMATES & TREND ANALYSIS

- 4.1. Capacity Segment Dashboard
- 4.2. Offshore Wind Turbine Market: Capacity Movement Analysis
- 4.3. Global Offshore Wind Turbine Market Size & Trend Analysis, by Capacity, 2018 to 2030 (USD Million)
- 4.4. Up to 3 MW
 - 4.4.1. Market estimates and forecasts 2018 to 2030 (USD Million)
- 4.5. 3 MW to 5 MW
 - 4.5.1. Market estimates and forecasts 2018 to 2030 (USD Million)
- 4.6. Above 5 MW
 - 4.6.1. Market estimates and forecasts 2018 to 2030 (USD Million)

CHAPTER 5. OFFSHORE WIND TURBINE MARKET: WATER DEPTH ESTIMATES & TREND ANALYSIS

- 5.1. Water Depth Segment Dashboard
- 5.2. Offshore Wind Turbine Market: Water Depth Movement Analysis
- 5.3. Global Offshore Wind Turbine Market Size & Trend Analysis, by Water Depth, 2018 to 2030 (USD Million)
- 5.4. Shallow Water (

List Of Tables

LIST OF TABLES

Table 1 List of abbreviations

Table 2 Global offshore wind turbine market, by region, 2018 - 2030 (USD Million)

Table 3 Global offshore wind turbine market, by capacity, 2018 - 2030 (USD Million)

Table 4 Global offshore wind turbine market, by water depth, 2018 - 2030 (USD Million)

Table 5 North America offshore wind turbine market, by country, 2018 - 2030 (USD Million)

Table 6 North America offshore wind turbine market, by capacity, 2018 - 2030 (USD Million)

Table 7 North America offshore wind turbine market, by water depth, 2018 - 2030 (USD Million)

Table 8 U.S. offshore wind turbine market, by capacity, 2018 - 2030 (USD Million)

Table 9 U.S. offshore wind turbine market, by water depth, 2018 - 2030 (USD Million)

Table 10 Canada offshore wind turbine market, by capacity, 2018 - 2030 (USD Million)

Table 11 Canada offshore wind turbine market, by water depth, 2018 - 2030 (USD Million)

Table 12 Mexico offshore wind turbine market, by capacity, 2018 - 2030 (USD Million)

Table 13 Mexico surgical ablation market, by water depth, 2018 - 2030 (USD Million)

Table 14 Europe offshore wind turbine market, by country, 2018 - 2030 (USD Million)

Table 15 Europe offshore wind turbine market, by capacity, 2018 - 2030 (USD Million)

Table 16 Europe offshore wind turbine market, by water depth, 2018 - 2030 (USD Million)

Table 17 Germany offshore wind turbine market, by capacity, 2018 - 2030 (USD Million)

Table 18 Germany offshore wind turbine market, by water depth, 2018 - 2030 (USD Million)

Table 19 UK offshore wind turbine market, by capacity, 2018 - 2030 (USD Million)

Table 20 UK offshore wind turbine market, by water depth, 2018 - 2030 (USD Million)

Table 21 Italy offshore wind turbine market, by capacity, 2018 - 2030 (USD Million)

Table 22 Italy offshore wind turbine market, by water depth, 2018 - 2030 (USD Million)

Table 23 Spain offshore wind turbine market, by capacity, 2018 - 2030 (USD Million)

Table 24 Spain offshore wind turbine market, by water depth, 2018 - 2030 (USD Million)

Table 25 The Netherlands offshore wind turbine market, by capacity, 2018 - 2030 (USD Million)

Table 26 The Netherlands offshore wind turbine market, by water depth, 2018 - 2030 (USD Million)

Table 27 Asia Pacific offshore wind turbine market, by country, 2018 - 2030 (USD Million)

Million)

Table 28 Asia Pacific offshore wind turbine market, by capacity, 2018 - 2030 (USD Million)

Table 29 Asia Pacific offshore wind turbine market, by water depth, 2018 - 2030 (USD Million)

Table 30 China offshore wind turbine market, by capacity, 2018 - 2030 (USD Million)

Table 31 China offshore wind turbine market, by water depth, 2018 - 2030 (USD Million)

Table 32 Japan offshore wind turbine market, by capacity, 2018 - 2030 (USD Million)

Table 33 Japan offshore wind turbine market, by water depth, 2018 - 2030 (USD Million)

Table 34 India offshore wind turbine market, by capacity, 2018 - 2030 (USD Million)

Table 35 India offshore wind turbine market, by water depth, 2018 - 2030 (USD Million)

Table 36 South Korea offshore wind turbine market, by capacity, 2018 - 2030 (USD Million)

Table 37 South Korea offshore wind turbine market, by water depth, 2018 - 2030 (USD Million)

Table 38 Indonesia offshore wind turbine market, by capacity, 2018 - 2030 (USD Million)

Table 39 Indonesia offshore wind turbine market, by water depth, 2018 - 2030 (USD Million)

Table 40 Thailand offshore wind turbine market, by capacity, 2018 - 2030 (USD Million)

Table 41 Thailand offshore wind turbine market, by water depth, 2018 - 2030 (USD Million)

Table 42 Latin America offshore wind turbine market, by country, 2018 - 2030 (USD Million)

Table 43 Latin America offshore wind turbine market, by capacity, 2018 - 2030 (USD Million)

Table 44 Latin America offshore wind turbine market, by water depth, 2018 - 2030 (USD Million)

Table 45 Brazil offshore wind turbine market, by capacity, 2018 - 2030 (USD Million)

Table 46 Brazil surgical ablation market, by water depth, 2018 - 2030 (USD Million)

Table 47 Argentina offshore wind turbine market, by capacity, 2018 - 2030 (USD Million)

Table 48 Argentina surgical ablation market, by water depth, 2018 - 2030 (USD Million)

Table 49 MEA offshore wind turbine market, by region, 2018 - 2030 (USD Million)

Table 50 MEA offshore wind turbine market, by capacity, 2018 - 2030 (USD Million)

Table 51 MEA offshore wind turbine market, by water depth, 2018 - 2030 (USD Million)

Table 52 South Africa offshore wind turbine market, by capacity, 2018 - 2030 (USD Million)

Table 53 South Africa offshore wind turbine market, by water depth, 2018 - 2030 (USD Million)

Table 54 Saudi Arabia offshore wind turbine market, by capacity, 2018 - 2030 (USD Million)

Table 55 Saudi Arabia offshore wind turbine market, by water depth, 2018 - 2030 (USD Million)

Table 56 UAE offshore wind turbine market, by capacity, 2018 - 2030 (USD Million)

Table 57 UAE offshore wind turbine market, by water depth, 2018 - 2030 (USD Million)

List Of Figures

LIST OF FIGURES

- Fig. 1 Market Research Process
- Fig. 2 Data Triangulation Techniques
- Fig. 3 Primary Research Pattern
- Fig. 4 Market Research Approaches
- Fig. 5 QFD Modeling for Market Share Assessment
- Fig. 6 Information Procurement
- Fig. 7 Market Formulation and Validation
- Fig. 8 Data Validating & Publishing
- Fig. 9 Market Segmentation & Scope
- Fig. 10 Offshore Wind Turbine Market Snapshot
- Fig. 11 Capacity Segment Snapshot
- Fig. 12 Device Segment Snapshot
- Fig. 13 Water Depth Segment Snapshot
- Fig. 14 Competitive Landscape Snapshot
- Fig. 15 Parent market outlook
- Fig. 16 Offshore Wind Turbine Market Value, 2023 (USD Million)
- Fig. 17 Offshore Wind Turbine Market - Value Chain Analysis
- Fig. 18 Offshore Wind Turbine Market - Market Dynamics
- Fig. 19 Offshore Wind Turbine Market - PORTER's Analysis
- Fig. 20 Offshore Wind Turbine Market - PESTEL Analysis
- Fig. 21 Offshore Wind Turbine Market Estimates & Forecasts, By Capacity: Key Takeaways
- Fig. 22 Offshore Wind Turbine Market Share, by Capacity, 2022 & 2030
- Fig. 23 Up to 3MW Offshore Wind Turbine Market Estimates & Forecasts, 2018 - 2030 (USD Million)
- Fig. 24 3MW to 5MW Offshore Wind Turbine Market Estimates & Forecasts, 2018 - 2030 (USD Million)
- Fig. 25 Above 5 MW Offshore Wind Turbine Market Estimates & Forecasts, 2018 - 2030 (USD Million)
- Fig. 26 Offshore Wind Turbine Market Estimates & Forecasts, by Water Depth: Key Takeaways
- Fig. 27 Offshore Wind Turbine Market Share, By Water Depth, 2023 & 2030
- Fig. 28 Offshore Wind Turbine Market Estimates & Forecasts, by shallow water (

I would like to order

Product name: Offshore Wind Turbine Market Size, Share & Trends Analysis Report, By Capacity (Up to 3 MW, 3 MW–5 MW, Above 5 MW), By Water Depth (Shallow Water (<30 M Depth), Transitional Water (30-60 M Depth), Deepwater), By Region, And Segment Forecasts, 2025 - 2030

Product link: <https://marketpublishers.com/r/O723561BA594EN.html>

Price: US\$ 5,950.00 (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/O723561BA594EN.html>