

Global Floating Offshore Wind Power Market Size study & Forecast, by Axis (Horizontal, Vertical) by Component (Blades, Tower) and Depth (? 30 m, >30 m to 50 m, > 50 m) and Regional Forecasts 2025-2035

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Abstracts

The Global Floating Offshore Wind Power Market is valued at approximately USD 0.36 billion in 2024 and is projected to expand at an extraordinary CAGR of 31.50% during the forecast period from 2025 to 2035, with historical data referenced for 2023 and 2024 and 2024 serving as the base year for estimation. Floating offshore wind power refers to advanced wind energy systems where turbines are installed on floating platforms anchored to the seabed, enabling deployment in deeper waters where conventional fixed-bottom structures are not feasible. These systems harness wind energy efficiently while offering flexibility in site selection, minimizing environmental and navigational impacts, and opening new geographies for renewable energy generation.

The market growth is underpinned by global efforts to transition toward renewable energy sources and meet ambitious decarbonization targets. Rising energy demand, government incentives for offshore wind projects, and technological innovations in floating platform design and turbine efficiency are collectively accelerating adoption. Further, the development of hybrid materials, modular platform architectures, and advanced anchoring systems is enabling the deployment of larger turbines in deeper waters, thereby enhancing power output and optimizing operational efficiency. Nonetheless, high capital expenditure and complex installation logistics remain notable challenges that manufacturers and project developers are strategically addressing.

The detailed segments and sub-segments included in the report are:

By Axis:

Horizontal

Vertical

By Component:

Blades

Tower

By Depth:

? 30 m

>30 m to 50 m

> 50 m

By Turbine Rating:

? 2 MW

>2 to 5 MW

>5 to 8 MW

>8 to 10 MW

>10 to 12 MW

>12 MW

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

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Horizontal axis turbines are expected to dominate the market in terms of deployment, owing to their technological maturity, higher efficiency, and widespread adoption in pilot and commercial-scale floating offshore wind projects. These turbines benefit from established supply chains, performance reliability, and cost-effective maintenance regimes. While vertical axis configurations are emerging as innovative alternatives offering unique installation and operational advantages, horizontal designs continue to hold a commanding share due to their proven track record in utility-scale energy production.

From a revenue standpoint, larger turbine ratings (>8 MW) currently lead the market, driven by the industry's push toward maximizing energy capture per installation and reducing levelized cost of electricity (LCOE). High-capacity turbines provide enhanced economic viability for floating offshore projects, particularly in deep-water sites where platform and installation costs are substantial. Smaller turbine ratings remain relevant for niche applications, pilot projects, and regions with constrained maritime infrastructure.

North America held the largest market share in 2025 due to the presence of early-stage floating wind projects, supportive government policies, and advanced port and marine infrastructure facilitating turbine deployment. Europe is witnessing significant investments in floating offshore wind corridors, particularly in the North Sea, accelerating capacity additions. Asia Pacific is anticipated to register the fastest growth over the forecast period, driven by ambitious renewable energy targets, rising coastal energy demand, and favorable financing frameworks in countries such as China and Japan. Latin America and the Middle East & Africa remain emerging markets, where

policy initiatives and offshore wind potential are beginning to shape investment flows.

Major market players included in this report are:

Siemens Gamesa Renewable Energy

Vestas Wind Systems

General Electric

Orsted

ABB Ltd.

Mitsubishi Heavy Industries

Northland Power Inc.

Iberdrola S.A.

Equinor ASA

RWE Renewables

ENGIE SA

Shanghai Electric Group

Adwen GmbH

Macquarie Group Limited

EDP Renovaveis

Global Floating Offshore Wind Power Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period - 2025-2035

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

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 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 the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it 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.

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035

Annualized revenues and regional-level analysis for each market segment

Detailed analysis of the geographical landscape with country-level analysis of major regions

Competitive landscape with information on major players in the market

Analysis of key business strategies and recommendations on future market approach

Analysis of the competitive structure of the market

Demand side and supply side analysis of the market

Contents

CHAPTER 1. GLOBAL FLOATING OFFSHORE WIND POWER MARKET REPORT SCOPE & METHODOLOGY

- 1.1. Research Objective
- 1.2. Research Methodology
 - 1.2.1. Forecast Model
 - 1.2.2. Desk Research
 - 1.2.3. Top Down and Bottom-Up Approach
- 1.3. Research Attributes
- 1.4. Scope of the Study
 - 1.4.1. Market Definition
 - 1.4.2. Market Segmentation
- 1.5. Research Assumption
 - 1.5.1. Inclusion & Exclusion
 - 1.5.2. Limitations
 - 1.5.3. Years Considered for the Study

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. CEO/CXO Standpoint
- 2.2. Strategic Insights
- 2.3. ESG Analysis
- 2.4. key Findings

CHAPTER 3. GLOBAL FLOATING OFFSHORE WIND POWER MARKET FORCES ANALYSIS

- 3.1. Market Forces Shaping The Global Floating Offshore Wind Power Market (2024-2035)
- 3.2. Drivers
 - 3.2.1. global efforts to transition toward renewable energy sources
 - 3.2.2. Rising energy demand
- 3.3. Restraints
 - 3.3.1. high capital expenditure and complex installation logistics
- 3.4. Opportunities
 - 3.4.1. government incentives for offshore wind projects

CHAPTER 4. GLOBAL FLOATING OFFSHORE WIND POWER INDUSTRY ANALYSIS

- 4.1. Porter's 5 Forces Model
 - 4.1.1. Bargaining Power of Buyer
 - 4.1.2. Bargaining Power of Supplier
 - 4.1.3. Threat of New Entrants
 - 4.1.4. Threat of Substitutes
 - 4.1.5. Competitive Rivalry
- 4.2. Porter's 5 Force Forecast Model (2024-2035)
- 4.3. PESTEL 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 Opportunities
- 4.5. Top Winning Strategies (2025)
- 4.6. Market Share Analysis (2024-2025)
- 4.7. Global Pricing Analysis And Trends 2025
- 4.8. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL FLOATING OFFSHORE WIND POWER MARKET SIZE & FORECASTS BY AXIS 2025-2035

- 5.1. Market Overview
- 5.2. Global Floating Offshore Wind Power Market Performance - Potential Analysis (2025)
- 5.3. Horizontal
 - 5.3.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
 - 5.3.2. Market size analysis, by region, 2025-2035
- 5.4. Vertical
 - 5.4.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
 - 5.4.2. Market size analysis, by region, 2025-2035

CHAPTER 6. GLOBAL FLOATING OFFSHORE WIND POWER MARKET SIZE & FORECASTS BY COMPONENT 2025-2035

- 6.1. Market Overview
- 6.2. Global Floating Offshore Wind Power Market Performance - Potential Analysis (2025)
- 6.3. Blades
 - 6.3.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
 - 6.3.2. Market size analysis, by region, 2025-2035
- 6.4. Tower
 - 6.4.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
 - 6.4.2. Market size analysis, by region, 2025-2035

CHAPTER 7. GLOBAL FLOATING OFFSHORE WIND POWER MARKET SIZE & FORECASTS BY DEPTH 2025–2035

- 7.1. Market Overview
- 7.2. Global Floating Offshore Wind Power Market Performance - Potential Analysis (2025)
- 7.3. ? 30 m
 - 7.3.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
 - 7.3.2. Market size analysis, by region, 2025-2035
- 7.4. >30 m to 50 m
 - 7.4.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
 - 7.4.2. Market size analysis, by region, 2025-2035
- 7.5. > 50 m
 - 7.5.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
 - 7.5.2. Market size analysis, by region, 2025-2035

CHAPTER 8. GLOBAL FLOATING OFFSHORE WIND POWER MARKET SIZE & FORECASTS BY TURBINE RATING 2025–2035

- 8.1. Market Overview
- 8.2. Global Floating Offshore Wind Power Market Performance - Potential Analysis (2025)
- 8.3. ? 2 MW
 - 8.3.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
 - 8.3.2. Market size analysis, by region, 2025-2035
- 8.4. >2 to 5 MW
 - 8.4.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
 - 8.4.2. Market size analysis, by region, 2025-2035
- 8.5. >5 to 8 MW

- 8.5.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
- 8.5.2. Market size analysis, by region, 2025-2035
- 8.6. >8 to 10 MW
 - 8.6.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
 - 8.6.2. Market size analysis, by region, 2025-2035
- 8.7. >10 to 12 MW
 - 8.7.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
 - 8.7.2. Market size analysis, by region, 2025-2035
- 8.8. >12 MW
 - 8.8.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
 - 8.8.2. Market size analysis, by region, 2025-2035

CHAPTER 9. GLOBAL FLOATING OFFSHORE WIND POWER MARKET SIZE & FORECASTS BY REGION 2025–2035

- 9.1. Growth Floating Offshore Wind Power Market, Regional Market Snapshot
- 9.2. Top Leading & Emerging Countries
- 9.3. North America Floating Offshore Wind Power Market
 - 9.3.1. U.S. Floating Offshore Wind Power Market
 - 9.3.1.1. Axis breakdown size & forecasts, 2025-2035
 - 9.3.1.2. Component breakdown size & forecasts, 2025-2035
 - 9.3.1.3. Depth breakdown size & forecasts, 2025-2035
 - 9.3.1.4. Turbine Rating breakdown size & forecasts, 2025-2035
 - 9.3.2. Canada Floating Offshore Wind Power Market
 - 9.3.2.1. Axis breakdown size & forecasts, 2025-2035
 - 9.3.2.2. Component breakdown size & forecasts, 2025-2035
 - 9.3.2.3. Depth breakdown size & forecasts, 2025-2035
 - 9.3.2.4. Turbine Rating breakdown size & forecasts, 2025-2035
- 9.4. Europe Floating Offshore Wind Power Market
 - 9.4.1. UK Floating Offshore Wind Power Market
 - 9.4.1.1. Axis breakdown size & forecasts, 2025-2035
 - 9.4.1.2. Component breakdown size & forecasts, 2025-2035
 - 9.4.1.3. Depth breakdown size & forecasts, 2025-2035
 - 9.4.1.4. Turbine Rating breakdown size & forecasts, 2025-2035
 - 9.4.2. Germany Floating Offshore Wind Power Market
 - 9.4.2.1. Axis breakdown size & forecasts, 2025-2035
 - 9.4.2.2. Component breakdown size & forecasts, 2025-2035
 - 9.4.2.3. Depth breakdown size & forecasts, 2025-2035
 - 9.4.2.4. Turbine Rating breakdown size & forecasts, 2025-2035

- 9.4.3. France Floating Offshore Wind Power Market
 - 9.4.3.1. Axis breakdown size & forecasts, 2025-2035
 - 9.4.3.2. Component breakdown size & forecasts, 2025-2035
 - 9.4.3.3. Depth breakdown size & forecasts, 2025-2035
 - 9.4.3.4. Turbine Rating breakdown size & forecasts, 2025-2035
- 9.4.4. Spain Floating Offshore Wind Power Market
 - 9.4.4.1. Axis breakdown size & forecasts, 2025-2035
 - 9.4.4.2. Component breakdown size & forecasts, 2025-2035
 - 9.4.4.3. Depth breakdown size & forecasts, 2025-2035
 - 9.4.4.4. Turbine Rating breakdown size & forecasts, 2025-2035
- 9.4.5. Italy Floating Offshore Wind Power Market
 - 9.4.5.1. Axis breakdown size & forecasts, 2025-2035
 - 9.4.5.2. Component breakdown size & forecasts, 2025-2035
 - 9.4.5.3. Depth breakdown size & forecasts, 2025-2035
 - 9.4.5.4. Turbine Rating breakdown size & forecasts, 2025-2035
- 9.4.6. Rest of Europe Floating Offshore Wind Power Market
 - 9.4.6.1. Axis breakdown size & forecasts, 2025-2035
 - 9.4.6.2. Component breakdown size & forecasts, 2025-2035
 - 9.4.6.3. Depth breakdown size & forecasts, 2025-2035
 - 9.4.6.4. Turbine Rating breakdown size & forecasts, 2025-2035
- 9.5. Asia Pacific Floating Offshore Wind Power Market
 - 9.5.1. China Floating Offshore Wind Power Market
 - 9.5.1.1. Axis breakdown size & forecasts, 2025-2035
 - 9.5.1.2. Component breakdown size & forecasts, 2025-2035
 - 9.5.1.3. Depth breakdown size & forecasts, 2025-2035
 - 9.5.1.4. Turbine Rating breakdown size & forecasts, 2025-2035
 - 9.5.2. India Floating Offshore Wind Power Market
 - 9.5.2.1. Axis breakdown size & forecasts, 2025-2035
 - 9.5.2.2. Component breakdown size & forecasts, 2025-2035
 - 9.5.2.3. Depth breakdown size & forecasts, 2025-2035
 - 9.5.2.4. Turbine Rating breakdown size & forecasts, 2025-2035
 - 9.5.3. Japan Floating Offshore Wind Power Market
 - 9.5.3.1. Axis breakdown size & forecasts, 2025-2035
 - 9.5.3.2. Component breakdown size & forecasts, 2025-2035
 - 9.5.3.3. Depth breakdown size & forecasts, 2025-2035
 - 9.5.3.4. Turbine Rating breakdown size & forecasts, 2025-2035
 - 9.5.4. Australia Floating Offshore Wind Power Market
 - 9.5.4.1. Axis breakdown size & forecasts, 2025-2035
 - 9.5.4.2. Component breakdown size & forecasts, 2025-2035

- 9.5.4.3. Depth breakdown size & forecasts, 2025-2035
- 9.5.4.4. Turbine Rating breakdown size & forecasts, 2025-2035
- 9.5.5. South Korea Floating Offshore Wind Power Market
 - 9.5.5.1. Axis breakdown size & forecasts, 2025-2035
 - 9.5.5.2. Component breakdown size & forecasts, 2025-2035
 - 9.5.5.3. Depth breakdown size & forecasts, 2025-2035
 - 9.5.5.4. Turbine Rating breakdown size & forecasts, 2025-2035
- 9.5.6. Rest of APAC Floating Offshore Wind Power Market
 - 9.5.6.1. Axis breakdown size & forecasts, 2025-2035
 - 9.5.6.2. Component breakdown size & forecasts, 2025-2035
 - 9.5.6.3. Depth breakdown size & forecasts, 2025-2035
 - 9.5.6.4. Turbine Rating breakdown size & forecasts, 2025-2035
- 9.6. Latin America Floating Offshore Wind Power Market
 - 9.6.1. Brazil Floating Offshore Wind Power Market
 - 9.6.1.1. Axis breakdown size & forecasts, 2025-2035
 - 9.6.1.2. Component breakdown size & forecasts, 2025-2035
 - 9.6.1.3. Depth breakdown size & forecasts, 2025-2035
 - 9.6.1.4. Turbine Rating breakdown size & forecasts, 2025-2035
 - 9.6.2. Mexico Floating Offshore Wind Power Market
 - 9.6.2.1. Axis breakdown size & forecasts, 2025-2035
 - 9.6.2.2. Component breakdown size & forecasts, 2025-2035
 - 9.6.2.3. Depth breakdown size & forecasts, 2025-2035
 - 9.6.2.4. Turbine Rating breakdown size & forecasts, 2025-2035
- 9.7. Middle East and Africa Floating Offshore Wind Power Market
 - 9.7.1. UAE Floating Offshore Wind Power Market
 - 9.7.1.1. Axis breakdown size & forecasts, 2025-2035
 - 9.7.1.2. Component breakdown size & forecasts, 2025-2035
 - 9.7.1.3. Depth breakdown size & forecasts, 2025-2035
 - 9.7.1.4. Turbine Rating breakdown size & forecasts, 2025-2035
 - 9.7.2. Saudi Arabia (KSA) Floating Offshore Wind Power Market
 - 9.7.2.1. Axis breakdown size & forecasts, 2025-2035
 - 9.7.2.2. Component breakdown size & forecasts, 2025-2035
 - 9.7.2.3. Depth breakdown size & forecasts, 2025-2035
 - 9.7.2.4. Turbine Rating breakdown size & forecasts, 2025-2035
 - 9.7.3. South Africa Floating Offshore Wind Power Market
 - 9.7.3.1. Axis breakdown size & forecasts, 2025-2035
 - 9.7.3.2. Component breakdown size & forecasts, 2025-2035
 - 9.7.3.3. Depth breakdown size & forecasts, 2025-2035
 - 9.7.3.4. Turbine Rating breakdown size & forecasts, 2025-2035

CHAPTER 10. COMPETITIVE INTELLIGENCE

- 10.1. Top Market Strategies
- 10.2. Siemens Gamesa Renewable Energy
 - 10.2.1. Company Overview
 - 10.2.2. Key Executives
 - 10.2.3. Company Snapshot
 - 10.2.4. Financial Performance (Subject to Data Availability)
 - 10.2.5. Product/Services Port
 - 10.2.6. Recent Development
 - 10.2.7. Market Strategies
 - 10.2.8. SWOT Analysis
- 10.3. Vestas Wind Systems
- 10.4. General Electric
- 10.5. Orsted
- 10.6. ABB Ltd.
- 10.7. Mitsubishi Heavy Industries
- 10.8. Northland Power Inc.
- 10.9. Iberdrola S.A.
- 10.10. Equinor ASA
- 10.11. RWE Renewables
- 10.12. ENGIE SA
- 10.13. Shanghai Electric Group
- 10.14. Adwen GmbH
- 10.15. Macquarie Group Limited
- 10.16. EDP Renovaveis

List Of Tables

LIST OF TABLES

Table 1. Global Floating Offshore Wind Power Market, Report Scope

Table 2. Global Floating Offshore Wind Power Market Estimates & Forecasts By Region 2024–2035

Table 3. Global Floating Offshore Wind Power Market Estimates & Forecasts By Segment 2024–2035

Table 4. Global Floating Offshore Wind Power Market Estimates & Forecasts By Segment 2024–2035

Table 5. Global Floating Offshore Wind Power Market Estimates & Forecasts By Segment 2024–2035

Table 6. Global Floating Offshore Wind Power Market Estimates & Forecasts By Segment 2024–2035

Table 7. Global Floating Offshore Wind Power Market Estimates & Forecasts By Segment 2024–2035

Table 8. U.S. Floating Offshore Wind Power Market Estimates & Forecasts, 2024–2035

Table 9. Canada Floating Offshore Wind Power Market Estimates & Forecasts, 2024–2035

Table 10. UK Floating Offshore Wind Power Market Estimates & Forecasts, 2024–2035

Table 11. Germany Floating Offshore Wind Power Market Estimates & Forecasts, 2024–2035

Table 12. France Floating Offshore Wind Power Market Estimates & Forecasts, 2024–2035

Table 13. Spain Floating Offshore Wind Power Market Estimates & Forecasts, 2024–2035

Table 14. Italy Floating Offshore Wind Power Market Estimates & Forecasts, 2024–2035

Table 15. Rest Of Europe Floating Offshore Wind Power Market Estimates & Forecasts, 2024–2035

Table 16. China Floating Offshore Wind Power Market Estimates & Forecasts, 2024–2035

Table 17. India Floating Offshore Wind Power Market Estimates & Forecasts, 2024–2035

Table 18. Japan Floating Offshore Wind Power Market Estimates & Forecasts, 2024–2035

Table 19. Australia Floating Offshore Wind Power Market Estimates & Forecasts, 2024–2035

Table 20. South Korea Floating Offshore Wind Power Market Estimates & Forecasts,
2024–2035

.....

List Of Figures

LIST OF FIGURES

- Fig 1. Global Floating Offshore Wind Power Market, Research Methodology
- Fig 2. Global Floating Offshore Wind Power Market, Market Estimation Techniques
- Fig 3. Global Market Size Estimates & Forecast Methods
- Fig 4. Global Floating Offshore Wind Power Market, Key Trends 2025
- Fig 5. Global Floating Offshore Wind Power Market, Growth Prospects 2024–2035
- Fig 6. Global Floating Offshore Wind Power Market, Porter’s Five Forces Model
- Fig 7. Global Floating Offshore Wind Power Market, Pestel Analysis
- Fig 8. Global Floating Offshore Wind Power Market, Value Chain Analysis
- Fig 9. Floating Offshore Wind Power Market By Application, 2025 & 2035
- Fig 10. Floating Offshore Wind Power Market By Segment, 2025 & 2035
- Fig 11. Floating Offshore Wind Power Market By Segment, 2025 & 2035
- Fig 12. Floating Offshore Wind Power Market By Segment, 2025 & 2035
- Fig 13. Floating Offshore Wind Power Market By Segment, 2025 & 2035
- Fig 14. North America Floating Offshore Wind Power Market, 2025 & 2035
- Fig 15. Europe Floating Offshore Wind Power Market, 2025 & 2035
- Fig 16. Asia Pacific Floating Offshore Wind Power Market, 2025 & 2035
- Fig 17. Latin America Floating Offshore Wind Power Market, 2025 & 2035
- Fig 18. Middle East & Africa Floating Offshore Wind Power Market, 2025 & 2035
- Fig 19. Global Floating Offshore Wind Power Market, Company Market Share Analysis (2025)

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