

Floating Offshore Wind Energy Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025-2034

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Abstracts

The Global Floating Offshore Wind Energy Market was valued at USD 367.7 million in 2024 and is projected to expand at a robust CAGR of 31.5% from 2025 to 2034. The market's rapid growth is fueled by favorable government policies, including technology-specific quotas, set tariffs, and competitive auctions designed to strengthen the industry. Many countries are actively implementing strategies to accelerate the deployment of floating offshore wind projects, recognizing their potential in addressing the world's increasing demand for renewable energy solutions. With the global shift toward clean energy, investments in offshore wind technology are gaining momentum as nations strive to meet ambitious carbon neutrality goals.

Floating offshore wind technology presents a viable solution to several challenges associated with traditional fixed-bottom wind farms, particularly in regions with deep waters where conventional installations are not feasible. The ability to harness stronger and more consistent wind resources in deep-sea locations is a significant advantage, making floating wind farms an attractive option for large-scale power generation. Continuous advancements in material sciences, turbine efficiency, and floating platform designs are expected to drive down costs, making the technology more accessible to developers worldwide. Additionally, as energy security concerns grow, governments and corporations are increasingly looking toward offshore wind as a long-term solution to diversify energy sources and reduce dependency on fossil fuels.

In 2024, the horizontal floating offshore wind turbine segment accounted for a dominant market share of 85%. This segment's leadership can be attributed to its high efficiency, streamlined production processes, and ease of maintenance, making it a preferred choice for developers. The sector is witnessing significant investment in research and

development to enhance floating platform design and performance. With continuous improvements in materials and manufacturing techniques, floating wind turbines are becoming more cost-effective and durable, driving further demand for these systems.

The floating offshore wind energy market is categorized based on turbine capacity, with segments ranging from 2 MW to >12 MW. The >10 to 12 MW category is expected to register the fastest growth, projected at a CAGR of 54% through 2034. The industry's focus on increasing turbine size and efficiency is critical in lowering overall energy production costs. By developing higher-capacity turbines, companies can generate more electricity with fewer units, leading to substantial cost reductions. Significant investments in cutting-edge turbine designs, advanced control systems, and innovative materials are further propelling this market segment's growth.

North America floating offshore wind energy market generated USD 62.8 million in 2024. The sector is experiencing accelerated expansion due to supportive government regulations and incentives promoting renewable energy projects. As turbine prices decline and industry capacity expands, demand for floating offshore wind energy continues to rise. The United States is emerging as a key player in the global energy transition, investing heavily in offshore wind energy to meet its renewable energy targets and strengthen its position in the clean energy landscape.

Contents

CHAPTER 1 METHODOLOGY & SCOPE

- 1.1 Research design
- 1.2 Base estimates & calculations
- 1.3 Forecast model
- 1.4 Primary research & validation
 - 1.4.1 Primary sources
 - 1.4.2 Data mining sources
- 1.5 Market definitions

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Industry 360° synopsis, 2021 – 2034

CHAPTER 3 INDUSTRY INSIGHTS

- 3.1 Industry ecosystem
- 3.2 Regulatory landscape
- 3.3 Industry impact forces
 - 3.3.1 Growth drivers
 - 3.3.2 Industry pitfalls & challenges
- 3.4 Growth potential analysis
- 3.5 Price trend analysis
- 3.6 Porter's analysis
 - 3.6.1 Bargaining power of suppliers
 - 3.6.2 Bargaining power of buyers
 - 3.6.3 Threat of new entrants
 - 3.6.4 Threat of substitutes
- 3.7 PESTEL analysis

CHAPTER 4 COMPETITIVE LANDSCAPE, 2024

- 4.1 Introduction
- 4.2 Strategic dashboard
- 4.3 Innovation & technology landscape

CHAPTER 5 MARKET SIZE AND FORECAST, BY TURBINE RATING, 2021 – 2034

Floating Offshore Wind Energy Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025-2...

(USD MILLION & MW)

- 5.1 Key trends
- 5.2 ? 2 MW
- 5.3 >2 to 5 MW
- 5.4 >5 to 8 MW
- 5.5 >8 to 10 MW
- 5.6 >10 to 12 MW
- 5.7 > 12 MW

CHAPTER 6 MARKET SIZE AND FORECAST, BY AXIS, 2021 – 2034 (USD MILLION & MW)

- 6.1 Key trends
- 6.2 Horizontal
 - 6.2.1 Up-wind
 - 6.2.2 Downwind
- 6.3 Vertical

CHAPTER 7 MARKET SIZE AND FORECAST, BY COMPONENT, 2021 – 2034 (USD MILLION & MW)

- 7.1 Key trends
- 7.2 Blade
- 7.3 Tower
- 7.4 Others

CHAPTER 8 MARKET SIZE AND FORECAST, BY DEPTH, 2021 – 2034 (USD MILLION & MW)

- 8.1 Key trends
- 8.2 ? 30 m
- 8.3 >30 m to ? 50 m
- 8.4 > 50 m

CHAPTER 9 MARKET SIZE AND FORECAST, BY REGION, 2021 – 2034 (USD MILLION & MW)

- 9.1 Key trends

9.2 North America

9.2.1 U.S.

9.2.2 Canada

9.3 Europe

9.3.1 Germany

9.3.2 UK

9.3.3 France

9.3.4 Sweden

9.3.5 Poland

9.3.6 Denmark

9.3.7 Portugal

9.3.8 Ireland

9.3.9 Belgium

9.4 Asia Pacific

9.4.1 China

9.4.2 India

9.4.3 Japan

9.4.4 South Korea

9.4.5 Vietnam

9.5 Rest of World

CHAPTER 10 COMPANY PROFILES

10.1 Equinor ASA

10.2 General Electric

10.3 Global Energy (Group) Limited

10.4 Hexicon

10.5 Nexans

10.6 Ørsted

10.7 Prysmian Group

10.8 RWE

10.9 Sumitomo Electric Industries

10.10 Simply Blue Group

10.11 Siemens Gamesa Renewable Energy

10.12 Vattenfall AB

10.13 Vestas

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