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# Floating Offshore Wind Market by Turbine Rating (Up to 5 MW, 5-10 MW, 11-15 MW, Above 15 MW), Floating Platform (Semi-submersible, Spar-buoy, Tension-leg, Barge & Hybrid), Component, Depth, & Region - Global Forecast to 2031

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## Abstracts

The global floating offshore market is projected to reach USD 25.40 billion by 2031 from USD 3.16 billion in 2026, at a CAGR of 51.7% during the forecast period. This sharp growth reflects the accelerating transition toward cleaner energy systems and the expanding role of offshore wind in national decarbonization strategies. Floating wind technology enables energy developers to tap into deeper waters with stronger and more consistent wind resources—areas previously inaccessible to fixed-bottom turbines—making it a critical solution for countries with limited shallow-water regions. Governments across Europe, Asia Pacific, and North America are increasingly unveiling policy incentives, auction mechanisms, and long-term offshore wind targets, which are collectively driving large-scale investment and the expansion of the commercial project pipeline. As supply chains mature and platform designs become more standardized, the cost competitiveness of floating offshore wind continues to improve, further reinforcing its growth trajectory.

Beyond policy support, technological advancements and strong industry collaboration are accelerating market readiness and commercial viability. Innovations in floating platforms, mooring systems, and subsea transmission infrastructure have significantly reduced project complexities, enabling developers to scale beyond pilot installations. Simultaneously, major utilities, renewable energy developers, and transitioning oil & gas companies are forming strategic partnerships to leverage offshore construction expertise, marine engineering capabilities, and global logistics networks. These collaborations are unlocking new deployment zones and catalyzing multi gigawatt

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project announcements across key markets such as the UK, Japan, France, and the US. With growing investor confidence, declining LCOE, and increasing environmental commitments, floating offshore wind is expected to evolve into a mainstream power generation technology, reshaping the global renewable energy landscape through 2031.

11–15 MW segment is expected to register the highest growth during the forecast period

The 11–15 MW turbine segment is expected to register the highest growth during the forecast period due to its optimal balance between technological maturity and economic efficiency. Turbines in this range are already commercially viable and widely adopted in project pipelines, offering significantly higher energy output per unit while reducing the number of installations required per project, thereby lowering installation, maintenance, and grid connection costs. Unlike >15 MW turbines, which are still in the early deployment phase, the 11–15 MW class benefits from proven designs, established supply chains, and greater bankability, making it the preferred choice for developers aiming to scale projects quickly. Additionally, these turbines are well-suited for floating platforms, where weight, stability, and integration constraints require a balance between size and operational reliability, further reinforcing their dominance in near-term capacity additions.

Floating platforms segment held the largest market share in 2025

The floating platforms segment holds the largest share of the floating offshore wind market because it is the key technology enabling offshore wind deployment in deep-water areas where seabed-fixed foundations are not practical. As global offshore wind development ventures move farther offshore to access stronger and more consistent wind resources, the demand for advanced floating substructures, such as semi-submersible, spar-buoy, and tension-leg platforms, continues to grow. These platforms account for a significant share of total project costs due to their complex engineering, materials, mooring systems, and integration requirements. Additionally, the increasing commercialization of large-scale floating wind projects in regions like Europe and the Asia Pacific is fueling substantial investment in platform design, standardization, and manufacturing capacity. Consequently, floating platforms remain the highest-value component within the supply chain and are expected to lead the market in 2025.

**Breakdown of Primaries:**

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In-depth interviews with key industry participants, subject-matter experts, C-level executives at key market players, and industry consultants, among other experts, were conducted to obtain and verify critical qualitative and quantitative information and to assess future market prospects. The primary interviews were distributed as follows:

By Company Type: Tier 1 - 30%, Tier 2 - 55%, and Tier 3 - 15%
By Designation: C-Level - 30%, D-Level - 20%, and Others - 50%
By Region: Europe - 30%, Asia Pacific - 60%, and RoW - 10%

The floating offshore wind market is characterized by the strong presence of established global industry leaders driving innovation and large-scale project deployment. Notable players in the floating offshore wind market include GE Vernova (US), Siemens Gamesa Renewable Energy (Spain), Vestas Wind Systems A/S (Denmark), Mingyang Smart Energy Group Co., Ltd. (China), Goldwind (China), BW Ideol (France), Principle Power (US), SBM Offshore (Netherlands), Saipem SpA (Italy), Aker Solutions (Norway), X1 Wind (Spain), Hexicon AB (Sweden), Shanghai Electric (China), HD Hyundai Heavy Industries (South Korea), Japan Marine United Corporation (Japan), Saitec Offshore (Spain), Doosan Enerbility (South Korea), Stiesdal (Denmark), Dongfang Electric (China), Envision Group (China), CS Wind Corporation (South Korea), Seatrium (Singapore), Technip Energies (France), NOV (US), Gazelle Wind Power (Portugal), and GICON-GRO?MANN INGENIEUR CONSULT GMBH (Germany)

**Research Coverage:**

The report provides a comprehensive definition, description, and forecast of the floating offshore wind market based on various parameters, including turbine rating (up to 5 MW, 5–10 MW, 11–15 MW, above 15 MW), floating platform (semi-submersible, spar-buoy, tension-leg platform, barge & hybrid concepts), component (turbines, floating platforms, moorings & anchors, electrical systems), depth (up to 30 M, 30–60 M, above 60 M), and region (Asia Pacific, North America, Europe, Rest of the World). The report also offers a thorough qualitative and quantitative analysis of the floating offshore wind market, encompassing a comprehensive examination of the key market drivers, limitations, opportunities, and challenges. Additionally, it covers critical facets of the market, such as an assessment of the competitive landscape, an analysis of market dynamics, value-based market estimates, and future trends in the floating offshore wind market. The report provides investment and funding information of key players in the floating offshore wind market.

**Key Benefits of Buying the Report**

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The report is thoughtfully designed to benefit both established industry leaders and newcomers in the floating offshore wind market. It provides reliable revenue forecasts for the entire market and its subsegments. This data is a valuable resource for stakeholders, enabling them to gain a comprehensive understanding of the competitive landscape and formulate effective market strategies for their businesses. Furthermore, the report serves as a channel for stakeholders to grasp the current state of the market, providing essential insights into market drivers, limitations, challenges, and growth opportunities. By incorporating these insights, stakeholders can make well-informed decisions and stay informed about the constantly evolving dynamics of the floating offshore wind market.

Analysis of key drivers (access to deep-water, high-quality wind resources, national energy security and decarbonization targets, rapid technological maturation of floating platforms), restraints (high capital expenditure compared to fixed-bottom offshore wind, high costs resulting from technical complexities), opportunities (large untapped markets in the Asia Pacific, first-mover advantage for developers and suppliers), and challenges (port readiness and logistical execution at scale, grid integration and offshore transmission coordination) influencing the growth of the floating offshore wind market.

Product Development/Innovation: The floating offshore wind market is in a constant state of evolution, with a primary focus on product launches, expansions, contracts, agreements, and partnerships. Leading industry players like GE Vernova (US), Siemens Gamesa Renewable Energy (Spain), Vestas Wind Systems A/S (Denmark), Mingyang Smart Energy Group Co., Ltd. (China), Goldwind (China), BW Ideol (France), Principle Power (US), SBM Offshore (Netherlands), and Saipem SpA (Italy) are actively investing in advanced floating platform designs and larger turbine integration. This continuous innovation is accelerating cost reduction, improving structural stability in deep waters, and enabling large-scale commercial deployment of floating wind projects globally.

Market Development: The floating offshore wind market is witnessing steady development driven by increasing government support, pilot-to-commercial-scale transitions, and growing project pipelines across key regions such as Europe and the Asia Pacific. Advancements in floating platform technologies, coupled with favorable regulatory frameworks and auction mechanisms, are accelerating deployment timelines. Additionally, rising investments from both energy majors and new entrants are strengthening project execution capabilities

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and enhancing overall market maturity.

Market Diversification: The market is gradually diversifying across multiple dimensions, including platform technologies (semi-submersible, spar, and tension-leg platform) and water depths. Geographic expansion into markets such as Japan and the US is reducing dependency on early adopters like Europe. Furthermore, integration with hybrid energy systems, including offshore hydrogen production and energy storage, is broadening the scope of applications and creating new revenue streams for stakeholders.

Competitive Assessment: A detailed review has been done to understand the market position, growth strategies, and services offered by key players in the floating offshore wind market. These prominent companies include GE Vernova (US), Siemens Gamesa Renewable Energy (Spain), Vestas Wind Systems A/S (Denmark), Mingyang Smart Energy Group Co., Ltd. (China), Goldwind (China), BW Ideol (France), Principle Power (US), SBM Offshore (Netherlands), Saipem SpA (Italy), Aker Solutions (Norway), X1 Wind (Spain), Hexicon AB (Sweden), Shanghai Electric (China), HD Hyundai Heavy Industries (South Korea), Japan Marine United Corporation (Japan), Saitec Offshore (Spain), Doosan Enerbility (South Korea), Stiesdal (Denmark), Dongfang Electric (China), Envision Group (China), CS Wind Corporation (South Korea), Seatrium (Singapore), Technip Energies (France), NOV (US), Gazelle Wind Power (Portugal), and GICON-GRO?MANN INGENIEUR CONSULT GMBH (Germany). This analysis provides in-depth insights into the competitive positions of these major players, their approaches to driving market growth, and the range of products and services they offer within the floating offshore wind market.

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