

Offshore Wind Market Size, Share & Trends Analysis Report By Installation (Biofuel, Hydrogen Fuel, Power to Liquid Fuel, Gas-to-Liquid), By Capacity (Up to 3 MW, 3 MW to 5 MW, Above 5 MW), By Water Depth, By Region, And Segment Forecasts, 2025 - 2030

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Abstracts

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Offshore Wind Market Growth & Trends

The global offshore wind market size is estimated to reach USD 65.04 billion by 2030, registering a CAGR of 8.9% from 2025 to 2030, according to a new report by Grand View Research, Inc. Favorable government regulations, higher investment in upcoming offshore wind power projects, and lower wind energy costs, which have contributed to increased wind energy adoption, are projected to drive the market growth over the forecast period.

Most countries globally are dependent on offshore wind generation to meet their renewable energy targets. Countries globally are developing rules and regulations to make offshore wind power a more viable alternative to a clean energy source. The increased efforts made by governments and electricity suppliers to minimize carbon emissions are the key factors accelerating market expansion. Furthermore, turbine installation is expected to increase globally, propelling the market growth.

Moreover, due to factors such as the desire to minimize carbon emissions, the depletion of fossil fuels, and climate change, there has been a considerable movement in the energy sector toward renewable and green energy. Several government policies are in place to help the initiative toward greener energy. Many multinational corporations are

taking steps to reduce their carbon footprint to contribute to a greener planet and sustainability.

The advancements in wind turbine technology are likely to assist the industry's growth over the forecast period. Furthermore, falling wind power generation costs and increased environmental sensitivity are predicted to boost wind power demand during the forecast period. Europe is a major market for offshore wind energy, and it was particularly hard hit by COVID-19, which hampered further expansion due to project delays. Projects under construction were delayed due to disruptions in European and global trade, resulting in increased CAPEX for such projects.

Offshore Wind Market Report Highlights

Based on region, Europe dominated the overall market in terms of revenue in 2024. The EU countries are primarily focusing on upgrading their aging electrical infrastructure, and their governments are promoting renewable energy generation and energy trading. These factors are likely to contribute to the growth of the market

Based on installation, the fixed structure segment dominated the market in 2024 with the largest revenue share of over 57.59%. The market for offshore wind installation is growing due to the increased need for clean energy. The fixed structure installation segment is likely to play a key role among most nations globally in meeting the renewable target

Based on water depth, the shallow water (

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