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Global Offshore Wind Turbine Installation Vessel Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Offshore Wind Turbine Installation Vessel market size is expected to reach $ 4619 million by 2032, rising at a market growth of 13.4% CAGR during the forecast period (2026-2032).

An Offshore Wind Turbine Installation Vessel (WTIV) is a purpose-built marine engineering platform used for the transportation, lifting, positioning, and installation of offshore wind turbine foundations and turbine units at offshore wind farm sites. The mainstream type is the self-propelled jack-up vessel, which is capable of elevating itself above sea level through its legs during installation operations while maintaining mobility through its own propulsion system. These vessels are characterized by a slender ship-shaped hull, large deck load capacity, heavy-lift cranes, high-precision positioning systems, and azimuth thrusters for dynamic positioning during jack-up operations. In addition to self-propelled jack-up vessels, heavy-lift vessels and other jack-up vessels adapted for turbine and foundation installation are also classified as offshore wind turbine installation vessels.

This report focuses on the offshore wind turbine installation service market, which represents the most critical and value-intensive segment of the global offshore wind turbine installation vessel market, with vessel owners acting as core service providers.

In 2024, global Offshore Wind Turbine Installation Vessel fleet size reached approximately 150 units with an Dayrate of around US$ 80 k per day.

The upstream suppliers of offshore wind turbine installation vessels is dominated by shipbuilders, such as Samsung Heavy Industries, HHI, ZPMC, COSCO Shipyard, etc.

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Downstream Applications and Major Customers

The downstream application of offshore wind turbine installation vessels is highly concentrated in offshore wind farm construction, including foundation installation, turbine erection, and large-component transportation. The primary customers are global offshore wind farm developers, EPC contractors, and energy groups. Representative customers include RWE, Equinor, Vattenfall, and Iberdrola.

As this report focuses on the offshore wind turbine installation service market, the gross margin primarily reflects the profitability of vessel chartering and installation services rather than ship manufacturing. Driven by high vessel construction costs, tight vessel supply, and strong offshore wind demand, the typical gross margin of offshore wind turbine installation services generally ranges from 10% to 30%.

Offshore Wind Turbine Installation Vessels are the core construction assets used for the transportation, lifting, positioning, and installation of offshore wind turbine foundations and complete turbine units at offshore wind farm sites. These vessels integrate heavy-lift crane systems, precise positioning technologies, and highly stable structural platforms to ensure safe and efficient offshore installation operations under complex marine conditions.

This market focuses specifically on the offshore wind turbine installation service market, in which vessel owners provide installation, transportation, and lifting services as the primary commercial activity and revenue source, making it the most critical and value-intensive segment of the global offshore wind turbine installation vessel industry.

From the perspective of product types, the market is mainly composed of self-propelled jack-up vessels, normal jack-up vessels, and heavy lift vessels used for offshore wind turbine installation. Self-propelled jack-up vessels represent the most advanced and operationally efficient vessel type, featuring a slender ship-shaped hull, self-elevating legs, onboard propulsion systems, and azimuth thrusters for dynamic positioning during jack-up operations. These vessels are capable of carrying multiple turbine units or foundations per voyage while rapidly relocating between installation points within a wind farm, significantly improving overall construction efficiency. Normal jack-up vessels, typically non-self-propelled or requiring external towing, remain widely used in nearshore and shallow-water wind farm projects, offering cost advantages in suitable operating conditions. Heavy lift vessels, equipped with ultra-large lifting capacities, play a critical role in the installation of large monopile foundations, transition pieces, and next-generation high-capacity offshore wind turbines, particularly in deep-water and high-

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load projects. Together, these three vessel types form a complete installation capability system for the offshore wind turbine installation service market.

In terms of application, offshore wind turbine installation vessels are primarily deployed in large wind farms and small wind farms, both of which constitute essential development scenarios for global offshore wind power. Large wind farms, typically located in deeper waters and farther offshore, require large-scale self-propelled jack-up vessels and heavy lift vessels to support the installation of large-capacity turbines, massive monopile foundations, and complex offshore substations. These projects demand high lifting capacity, long endurance, and advanced positioning systems, driving continuous technological upgrading of installation vessels. Small wind farms, usually distributed in nearshore or transitional sea areas, rely more heavily on normal jack-up vessels and medium-sized self-propelled units to perform turbine erection and foundation installation at relatively lower cost and shorter mobilization distances. The coexistence of large and small wind farm projects ensures diversified demand across different vessel types.

The growth of the offshore wind turbine installation vessel service market is primarily driven by the rapid global expansion of offshore wind power capacity, continuous increases in single-turbine installed power, and long-term energy transition policies promoting carbon neutrality. Governments across Europe, China, and other major coastal economies are accelerating offshore wind project approvals and grid integration targets, directly stimulating sustained demand for installation services. Technological upgrades in turbine size, foundation structure, and offshore construction methods are further increasing the technical threshold and unit value of installation services. In addition, the global scarcity of high-end self-propelled jack-up vessels and heavy lift vessels has created a structurally tight supply situation, pushing up charter rates and strengthening the overall profitability of vessel owners operating in the service market.

At the same time, the offshore wind turbine installation vessel service market also faces several structural restraints. The construction cost of high-end installation vessels continues to rise due to the use of large-scale cranes, advanced propulsion systems, and high-grade steel structures, significantly increasing capital expenditure pressure on vessel owners. Project scheduling is highly sensitive to weather conditions, permitting delays, and grid connection planning, which directly affects vessel utilization rates and revenue stability. In addition, the regional imbalance between offshore wind project distribution and available installation vessel resources leads to long-distance mobilization, higher operating costs, and intensified competition in certain peak construction cycles. Regulatory requirements related to vessel safety, emissions, and

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offshore construction standards are also becoming increasingly stringent, further increasing compliance costs for service providers.

This report studies the global Offshore Wind Turbine Installation Vessel production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Offshore Wind Turbine Installation Vessel and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Offshore Wind Turbine Installation Vessel that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Offshore Wind Turbine Installation Vessel total production and demand, 2021-2032, (Units)
Global Offshore Wind Turbine Installation Vessel total production value, 2021-2032, (USD Million)
Global Offshore Wind Turbine Installation Vessel production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)
Global Offshore Wind Turbine Installation Vessel consumption by region & country, CAGR, 2021-2032 & (Units)
U.S. VS China: Offshore Wind Turbine Installation Vessel domestic production, consumption, key domestic manufacturers and share
Global Offshore Wind Turbine Installation Vessel production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)
Global Offshore Wind Turbine Installation Vessel production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)
Global Offshore Wind Turbine Installation Vessel production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Offshore Wind Turbine Installation Vessel market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include DEME, Seajacks, Fred. Olsen Windcarrier, Van Oord (MPI-Offshore), Jack-Up Barge, SEAFOX, Cadele, Longyuan Zhenhua, CCCC Third Harbor Engineering, etc.

This report also provides key insights about market drivers, restraints, opportunities,

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new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Offshore Wind Turbine Installation Vessel market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Units) and average price (K USD/day) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Offshore Wind Turbine Installation Vessel Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Offshore Wind Turbine Installation Vessel Market, Segmentation by Type:

Self-Propelled Jack-Up Vessel

Normal Jack-Up Vessel

Heavy Lift Vessel

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Global Offshore Wind Turbine Installation Vessel Market, Segmentation by Service Type:

Wind Farm Construction

Maintenance and Decommissioning

Global Offshore Wind Turbine Installation Vessel Market, Segmentation by Wind Farm Type:

Fixed-Bottom Offshore Wind Farms

Floating Offshore Wind Farms

Global Offshore Wind Turbine Installation Vessel Market, Segmentation by Application:

Large Wind Farm

Small Wind Farm

Companies Profiled:

DEME

Seajacks

Fred. Olsen Windcarrier

Van Oord (MPI-Offshore)

Jack-Up Barge

SEAFOX

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Cadele

Longyuan Zhenhua

CCCC Third Harbor Engineering

Key Questions Answered:

1. How big is the global Offshore Wind Turbine Installation Vessel market?
2. What is the demand of the global Offshore Wind Turbine Installation Vessel market?
3. What is the year over year growth of the global Offshore Wind Turbine Installation Vessel market?
4. What is the production and production value of the global Offshore Wind Turbine Installation Vessel market?
5. Who are the key producers in the global Offshore Wind Turbine Installation Vessel market?
6. What are the growth factors driving the market demand?

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Contents

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List Of Tables

LIST OF TABLES

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List Of Figures

LIST OF FIGURES

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