

Global Large Capacity Offshore Wind Turbine Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Large Capacity Offshore Wind Turbine market size was valued at US\$ 13970 million in 2024 and is forecast to a readjusted size of USD 28430 million by 2031 with a CAGR of 10.6% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

A large capacity offshore wind turbine is a wind energy system specifically designed for marine environments, featuring ultra-large blades (with diameters ranging from 180 to 260 meters), corrosion-resistant materials (such as high-strength steel and composites), efficient direct-drive or hybrid drive generators, and control systems adapted to complex offshore conditions (such as advanced pitch and yaw control technologies) to efficiently capture wind energy and convert it into electricity. The significance of large capacity lies in its ability to significantly increase the power output per unit of sea area by enhancing the single-machine power, reducing the number of turbines and infrastructure investments within the wind farm, thereby substantially lowering construction and operation and maintenance costs, and optimizing the levelized cost of electricity (LCOE) for offshore wind. Its primary benefits include improving the utilization efficiency of sea area resources, especially in deep and open sea regions; reducing foundation costs (such as fixed gravity bases or floating platforms), submarine cable, and installation expenses; and supporting the integration of large-scale clean energy into the grid, aiding in achieving the global carbon neutrality target.

This report is a detailed and comprehensive analysis for global Large Capacity Offshore Wind Turbine market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Large Capacity Offshore Wind Turbine market size and forecasts, in consumption value (\$ Million), sales quantity (GWh), and average selling prices (US\$/MWh), 2020-2031

Global Large Capacity Offshore Wind Turbine market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (GWh), and average selling prices (US\$/MWh), 2020-2031

Global Large Capacity Offshore Wind Turbine market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (GWh), and average selling prices (US\$/MWh), 2020-2031

Global Large Capacity Offshore Wind Turbine market shares of main players, shipments in revenue (\$ Million), sales quantity (GWh), and ASP (US\$/MWh), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Large Capacity Offshore Wind Turbine
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Large Capacity Offshore Wind Turbine market based on the following parameters - company overview, sales quantity, revenue,

price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Siemens Gamesa, Guangdong Mingyang Wind Power Industry, CSIC Haizhuang Windpower, Shanghai Envision Group, Beijing Goldwind Science & Technology, Dongfang Electric Wind Power, General Electric, Vestas, Equinor, Doosan Enerbility, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Large Capacity Offshore Wind Turbine market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Below 19MW

Above 20MW

Market segment by Application

Offshore

Deep Sea

Major players covered

Siemens Gamesa

Guangdong Mingyang Wind Power Industry

CSIC Haizhuang Windpower

Shanghai Envision Group

Beijing Goldwind Science & Technology

Dongfang Electric Wind Power

General Electric

Vestas

Equinor

Doosan Enerbility

Hangzhou Windey Energy Technology Group

Hunan SANY Heavy Industry

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Large Capacity Offshore Wind Turbine product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Large Capacity Offshore Wind Turbine, with price, sales quantity, revenue, and global market share of Large Capacity Offshore Wind Turbine from 2020 to 2025.

Chapter 3, the Large Capacity Offshore Wind Turbine competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Large Capacity Offshore Wind Turbine breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Large Capacity Offshore Wind Turbine market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Large Capacity Offshore Wind Turbine.

Chapter 14 and 15, to describe Large Capacity Offshore Wind Turbine sales channel, distributors, customers, research findings and conclusion.

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