

Global Direct Drive Wind Turbine Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Direct Drive Wind Turbine market size was valued at USD 28310 million in 2023 and is forecast to a readjusted size of USD 50470 million by 2030 with a CAGR of 8.6% during review period.

The direct drive (gearless) wind turbine is the low-speed generator that eliminates the need for a gearbox from the turbine's drive train. Direct drive technology has been praised for its design, which is less complex than gearbox technology, leading to easier operations and maintenance. This appeal has made direct drive especially coveted for use in offshore wind developments. The most preferred direct drive wind turbine generator is the permanent magnet type generator, as it is lighter in weight and possesses high reliability for offshore applications. The reduction of weight seen by direct-drive machines is actually leading to a decrease in costs, especially in terms of manufacturing costs.

According to the Global Wind Report 2023 released by the Global Wind Energy Council, by 2024, the newly installed capacity of global onshore wind power will exceed 100GW for the first time; by 2025, the newly installed capacity of global offshore wind power will also reach 25GW. In the next five years, the newly added grid-connected capacity of wind power will reach 680GW. The report also shows that the United States and Europe may experience a supply bottleneck of wind turbines and components in 2025. It recommends that national policymakers take immediate action to increase investment in supply chains to meet their rapid growth in demand and avoid supply chain bottlenecks hindering the development of wind power. In addition, according to Wood Mackenzie statistics, China is the largest and fastest-growing market for wind power generation in

the world, accounting for more than half of the market share. Data from the National Energy Administration of China also shows that China's installed wind power capacity ranks first in the world, with a capacity of nearly 400 million kilowatts.

The Global Info Research report includes an overview of the development of the Direct Drive Wind Turbine industry chain, the market status of Energy Storage (Less Than 1MW, 1MW To 3MW), Oil And Gas (Less Than 1MW, 1MW To 3MW), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Direct Drive Wind Turbine.

Regionally, the report analyzes the Direct Drive Wind Turbine markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Direct Drive Wind Turbine market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Direct Drive Wind Turbine market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Direct Drive Wind Turbine industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Less Than 1MW, 1MW To 3MW).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Direct Drive Wind Turbine market.

Regional Analysis: The report involves examining the Direct Drive Wind Turbine market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Direct Drive Wind Turbine market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Direct Drive Wind Turbine:

Company Analysis: Report covers individual Direct Drive Wind Turbine manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Direct Drive Wind Turbine. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Energy Storage, Oil And Gas).

Technology Analysis: Report covers specific technologies relevant to Direct Drive Wind Turbine. It assesses the current state, advancements, and potential future developments in Direct Drive Wind Turbine areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Direct Drive Wind Turbine market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Direct Drive Wind Turbine market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Less Than 1MW

1MW To 3MW

More Than 3MW

Market segment by Application

Energy Storage

Oil And Gas

Smart Grid

Major players covered

Siemens

General Electric

Enercon

Argosy Wind Power

Goldwind Science & Technology

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 Direct Drive Wind Turbine product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Direct Drive Wind Turbine, with price, sales, revenue and global market share of Direct Drive Wind Turbine from 2019 to 2024.

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

Chapter 4, the Direct Drive Wind Turbine breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Direct Drive Wind Turbine market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Direct Drive Wind Turbine.

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