

# Global Direct Drive (Gearless) Wind Turbine Market Growth 2024-2030

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## Abstracts

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According to our LPI (LP Information) latest study, the global Direct Drive (Gearless) Wind Turbine market size was valued at US\$ 26910 million in 2023. With growing demand in downstream market, the Direct Drive (Gearless) Wind Turbine is forecast to a readjusted size of US\$ 50270 million by 2030 with a CAGR of 9.3% during review period.

The research report highlights the growth potential of the global Direct Drive (Gearless) Wind Turbine market. Direct Drive (Gearless) Wind Turbine are expected to show stable growth in the future market. However, product differentiation, reducing costs, and supply chain optimization remain crucial for the widespread adoption of Direct Drive (Gearless) Wind Turbine. Market players need to invest in research and development, forge strategic partnerships, and align their offerings with evolving consumer preferences to capitalize on the immense opportunities presented by the Direct Drive (Gearless) Wind Turbine market.

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.

Global Direct Drive (Gearless) Wind Turbine key players include GOLDWIND, Enercon, SIEMENS, GE ENERGY, ALSTOM, etc. Global top five players hold a share about 65%.

Europe is the largest market, with a share about 40%, followed by China and North America, having a total share about 45 percent.

In terms of product, 1 MW – 3 MW is the largest segment, with a share about 85%. And in terms of application, the largest application is Onshore Application, followed by Offshore Application.

#### Key Features:

The report on Direct Drive (Gearless) Wind Turbine market reflects various aspects and provide valuable insights into the industry.

**Market Size and Growth:** The research report provide an overview of the current size and growth of the Direct Drive (Gearless) Wind Turbine market. It may include historical data, market segmentation by Type (e.g., Less than 1 MW, 1 MW – 3 MW), and regional breakdowns.

**Market Drivers and Challenges:** The report can identify and analyse the factors driving the growth of the Direct Drive (Gearless) Wind Turbine market, such as government regulations, environmental concerns, technological advancements, and changing consumer preferences. It can also highlight the challenges faced by the industry, including infrastructure limitations, range anxiety, and high upfront costs.

**Competitive Landscape:** The research report provides analysis of the competitive landscape within the Direct Drive (Gearless) Wind Turbine market. It includes profiles of key players, their market share, strategies, and product offerings. The report can also highlight emerging players and their potential impact on the market.

**Technological Developments:** The research report can delve into the latest technological developments in the Direct Drive (Gearless) Wind Turbine industry. This include advancements in Direct Drive (Gearless) Wind Turbine technology, Direct Drive (Gearless) Wind Turbine new entrants, Direct Drive (Gearless) Wind Turbine new investment, and other innovations that are shaping the future of Direct Drive (Gearless) Wind Turbine.

**Downstream Procumbent Preference:** The report can shed light on customer procumbent behaviour and adoption trends in the Direct Drive (Gearless) Wind Turbine market. It includes factors influencing customer ' purchasing decisions, preferences for Direct Drive (Gearless) Wind Turbine product.

**Government Policies and Incentives:** The research report analyse the impact of government policies and incentives on the Direct Drive (Gearless) Wind Turbine market. This may include an assessment of regulatory frameworks, subsidies, tax incentives, and other measures aimed at promoting Direct Drive (Gearless) Wind Turbine market. The report also evaluates the effectiveness of these policies in driving market growth.

**Environmental Impact and Sustainability:** The research report assess the environmental impact and sustainability aspects of the Direct Drive (Gearless) Wind Turbine market.

**Market Forecasts and Future Outlook:** Based on the analysis conducted, the research report provide market forecasts and outlook for the Direct Drive (Gearless) Wind Turbine industry. This includes projections of market size, growth rates, regional trends, and predictions on technological advancements and policy developments.

**Recommendations and Opportunities:** The report conclude with recommendations for industry stakeholders, policymakers, and investors. It highlights potential opportunities for market players to capitalize on emerging trends, overcome challenges, and contribute to the growth and development of the Direct Drive (Gearless) Wind Turbine market.

**Market Segmentation:**

Direct Drive (Gearless) 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.

Segmentation by type

Less than 1 MW

1 MW – 3 MW

More than 3 MW

Segmentation by application

Offshore Application

Onshore Application

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Goldwind

Enercon

Siemens

GE Energy

EWT

Lagerwey Wind

Leitwind

United Energies MTOI

Northern Power Systems

Avantis Energy

ReGen Powertech

XEMC Darwind

American Superconductor Corp.

VENSYS Energy

Ghrepower Green Energy

### Key Questions Addressed in this Report

What is the 10-year outlook for the global Direct Drive (Gearless) Wind Turbine market?

What factors are driving Direct Drive (Gearless) Wind Turbine market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Direct Drive (Gearless) Wind Turbine market opportunities vary by end market size?

How does Direct Drive (Gearless) Wind Turbine break out type, application?

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