

Global Direct Drive (Gearless) Wind Turbine Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Direct Drive (Gearless) Wind Turbine market size is expected to reach \$ 65060 million by 2032, rising at a market growth of 8.8% CAGR during the forecast period (2026-2032).

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.

This report studies the global Direct Drive (Gearless) Wind Turbine production, demand,

key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Direct Drive (Gearless) Wind Turbine 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 Direct Drive (Gearless) Wind Turbine that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Direct Drive (Gearless) Wind Turbine total production and demand, 2021-2032, (MW)

Global Direct Drive (Gearless) Wind Turbine total production value, 2021-2032, (USD Million)

Global Direct Drive (Gearless) Wind Turbine production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (MW), (based on production site)

Global Direct Drive (Gearless) Wind Turbine consumption by region & country, CAGR, 2021-2032 & (MW)

U.S. VS China: Direct Drive (Gearless) Wind Turbine domestic production, consumption, key domestic manufacturers and share

Global Direct Drive (Gearless) Wind Turbine production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (MW)

Global Direct Drive (Gearless) Wind Turbine production by Type, production, value, CAGR, 2021-2032, (USD Million) & (MW)

Global Direct Drive (Gearless) Wind Turbine production by Application, production, value, CAGR, 2021-2032, (USD Million) & (MW)

This report profiles key players in the global Direct Drive (Gearless) Wind Turbine 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 Goldwind, Enercon, Siemens, GE Energy, EWT, Lagerwey Wind, Leitwind, United Energies MTOI, Northern Power

Systems, Avantis Energy, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Direct Drive (Gearless) Wind Turbine market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (MW) and average price (USD/Unit) 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 Direct Drive (Gearless) Wind Turbine Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Direct Drive (Gearless) Wind Turbine Market, Segmentation by Type:

Less than 1 MW

1 MW – 3 MW

More than 3 MW

Global Direct Drive (Gearless) Wind Turbine Market, Segmentation by Application:

Offshore Application

Onshore Application

Companies Profiled:

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 Answered:

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

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