

Global Wind Power Generation Doubly Fed Converter Market Growth 2026-2032

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Abstracts

The global Wind Power Generation Doubly Fed Converter market size is predicted to grow from US\$ 442 million in 2025 to US\$ 592 million in 2032; it is expected to grow at a CAGR of 4.0% from 2026 to 2032.

In 2025, the global production volume of doubly fed converters for wind power generation is projected to reach 22,609.5 MW, with an average selling price of \$20 per kilowatt. The global annual production capacity for these converters stands at approximately 35,000 MW, with a gross margin of approximately 27.2%. The doubly fed converter is a core power electronics device utilized in doubly fed asynchronous wind turbine systems; essentially, it functions as an AC excitation power source that enables the generator to operate at variable speeds while maintaining a constant output frequency by controlling the rotor excitation current. Typically, this converter consists of a machine-side converter, a grid-side converter, and an intermediate DC link, employing a unique topological structure characterized by 'direct grid connection via the stator and power feeding via the rotor through the converter.' The grid-side converter is responsible for maintaining the stability of the DC bus voltage and regulating the reactive power injected into the grid, while the machine-side converter dynamically adjusts the frequency, amplitude, and phase of the rotor current in response to changes in wind speed, thereby ensuring that the stator output frequency remains continuously synchronized with the grid frequency. This design allows the generator's rotational speed to vary within a specific range around the synchronous speed, thereby enabling the capture of more wind energy; furthermore, since the converter is required to process only the slip power (which accounts for approximately 30% of the unit's rated power), the device's capacity requirements and associated costs are significantly reduced. The upstream supply chain for wind power doubly fed converters includes components such as IGBT modules, IGBT driver chips, and SiC devices. The midstream segment

comprises the manufacturers of these converters, while the downstream market primarily consists of sectors such as offshore and onshore wind power generation.

The current market for doubly-fed wind power converters is navigating a complex phase characterized by an interplay between competition within an established installed base?now dominated by domestic players?and the ongoing process of technological substitution. On one hand, driven by the maturation of the domestic wind power industry chain, domestically produced converters have leveraged their cost and service advantages to secure an absolutely dominant position in the onshore wind sector, successfully achieving large-scale displacement of early-stage international brands. On the other hand, the market faces formidable challenges stemming from evolving technological paradigms: amidst trends toward larger wind turbines and the accelerated development of offshore wind power, the market share of full-power converters continues to climb, steadily encroaching upon the application space for doubly-fed converters. Consequently, the market for doubly-fed converters presents a competitive landscape defined by limited overall growth in scale, yet sustained resilience within specific onshore regions and the retrofit market; this compels manufacturers to seek differentiated competitive strategies while simultaneously consolidating their traditional strengths.

LP Information, Inc. (LPI) ' newest research report, the ?Wind Power Generation Doubly Fed Converter Industry Forecast? looks at past sales and reviews total world Wind Power Generation Doubly Fed Converter sales in 2025, providing a comprehensive analysis by region and market sector of projected Wind Power Generation Doubly Fed Converter sales for 2026 through 2032. With Wind Power Generation Doubly Fed Converter sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Wind Power Generation Doubly Fed Converter industry.

This Insight Report provides a comprehensive analysis of the global Wind Power Generation Doubly Fed Converter landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Wind Power Generation Doubly Fed Converter portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Wind Power Generation Doubly Fed Converter market.

This Insight Report evaluates the key market trends, drivers, and affecting factors

shaping the global outlook for Wind Power Generation Doubly Fed Converter and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Wind Power Generation Doubly Fed Converter.

This report presents a comprehensive overview, market shares, and growth opportunities of Wind Power Generation Doubly Fed Converter market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Air-Cooled

Liquid-Cooled

Segmentation by Control:

PWM-Type Doubly Fed Converter

Direct-Conversion Doubly Fed Converter

Segmentation by Power:

?100kW

100kW-1000kW

?1000kW

Segmentation by Application:

Offshore Wind Power

Onshore Wind Power

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 analysing the company's coverage, product portfolio, its market penetration.

Sungrow

ABB

Delta

Siemens

GE

Emerson

CRRC Times Elec

Zhejiang HRV Electric

Hopewind

Vertiv

HITE Electric Technology

XJ Electric

NARI Technology

JIUZHOU GROUP

CHN ENERGY Tech & Env

Key Questions Addressed in this Report

What is the 10-year outlook for the global Wind Power Generation Doubly Fed Converter market?

What factors are driving Wind Power Generation Doubly Fed Converter market growth, globally and by region?

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

How do Wind Power Generation Doubly Fed Converter market opportunities vary by end market size?

How does Wind Power Generation Doubly Fed Converter break out by Type, by Application?

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