

Global Water-Cooled Doubly-Fed Converter Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Water-Cooled Doubly-Fed Converter market size was valued at US\$ 611 million in 2025 and is forecast to a readjusted size of US\$ 816 million by 2032 with a CAGR of 4.2% during review period.

A water-cooled doubly-fed converter is a type of wind power converter that employs liquid-based thermal management technology. It is primarily utilized within Doubly-Fed Induction Generator (DFIG) systems to facilitate the bidirectional exchange and control of energy between the generator rotor and the power grid. Its core function involves regulating the frequency, amplitude, and phase of the rotor current to enable variable-speed, constant-frequency operation of the wind turbine, facilitate active and reactive power control, and ensure stable grid-connected power generation. Compared to traditional air-cooled doubly-fed converters, the liquid-cooled solution utilizes circulating coolant to dissipate the substantial heat generated by power semiconductor devices; consequently, it offers superior heat dissipation efficiency, higher power density, lower noise levels, and enhanced operational stability.

The upstream segment of the industry chain primarily comprises suppliers of core components?including IGBT/SiC power devices, DSP/FPGA control chips, liquid cooling plates, circulation pumps, capacitors, reactors, PCBs, and thermal management materials?with power semiconductors and liquid cooling systems constituting the critical links. The midstream segment consists of enterprises engaged in the design, manufacturing, and system integration of liquid-cooled doubly-fed converters; key technological areas here include PWM control, liquid-based thermal management, Low Voltage Ride-Through (LVRT) capabilities, and high-power-density design. The downstream segment focuses on applications within large-scale onshore wind farms,

offshore wind farms, grid-connected new energy systems, and high-power industrial variable-frequency drive systems; among these, large-scale wind turbines exceeding 10 MW, offshore wind power projects, and high-power-density new energy systems represent the sectors currently experiencing the most rapid growth in demand.

In 2025, global sales volume for water-cooled doubly-fed converters is projected to reach 5,500 units, with a production capacity of approximately 7,800 units. The average selling price is estimated at \$108,000 per unit, with an average gross margin ranging from 25% to 35%.

In terms of demand structure, large-scale onshore wind power remains the largest application market for water-cooled doubly fed converters, accounting for the dominant share of overall demand. In recent years, as the single-unit capacity of wind turbines has steadily increased, the heat dissipation capabilities of traditional air-cooled solutions have gradually approached their limits; consequently, the penetration rate of water-cooled doubly fed converters in units exceeding 5 MW has risen rapidly. Concurrently, the expansion of offshore wind power, the development of wind farms in high-temperature and high-humidity environments, and the construction of large-scale new energy bases are also driving increased demand for highly reliable liquid-cooled converters. Furthermore, rising requirements regarding AI computing power, new energy grid integration, and grid stability are indirectly driving the technological upgrading of high-performance converter control systems.

Regarding product and technology roadmaps, the industry is currently transitioning from traditional IGBT-based air-cooled architectures toward a new paradigm characterized by 'liquid cooling, high power density, SiC integration, and intelligent operation.' Current mainstream products utilize a back-to-back PWM topology, integrated with liquid cooling plates, intelligent temperature control, Low Voltage Ride-Through (LVRT) capabilities, and high-voltage grid-connection control technologies to enhance system efficiency and reliability. With the development of large-scale wind turbines exceeding 10 MW and the expansion of offshore wind power, SiC power devices, modular design, and higher-voltage-class converters are emerging as key technological trends. In the future, AI-driven fault prediction, digital twin-based operation and maintenance, and intelligent thermal management systems are also expected to gradually make inroads into the high-end wind power converter sector.

This report is a detailed and comprehensive analysis for global Water-Cooled Doubly-Fed Converter 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 Water-Cooled Doubly-Fed Converter market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Water-Cooled Doubly-Fed Converter market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Water-Cooled Doubly-Fed Converter market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Water-Cooled Doubly-Fed Converter market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

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 Water-Cooled Doubly-Fed Converter

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 Water-Cooled Doubly-Fed Converter 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, ABB, GE, Nordex, Ingeteam, Hopewind, Sungrow Power, Dongfang Electric, CRRC Times Electric, Gold Wind, etc.

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

Market Segmentation

Water-Cooled Doubly-Fed Converter market is split by Type and by Application. For the period 2021-2032, 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

Back-to-Back Converters

Modular Converters

Market segment by Fan Capacity

2-3MW

3-5MW

?5MW

Market segment by Voltage

690V

950V

1140V

Market segment by Application

Onshore Wind Power

Offshore Wind Power

Renewable Energy Grid-Connected Systems

High-Power Industrial Drives

Intelligent Wind Power Systems

Others

Major players covered

Siemens

ABB

GE

Nordex

Ingeteam

Hopewind

Sungrow Power

Dongfang Electric

CRRC Times Electric

Gold Wind

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 Water-Cooled Doubly-Fed Converter product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Water-Cooled Doubly-Fed Converter, with price, sales quantity, revenue, and global market share of Water-Cooled Doubly-Fed Converter from 2021 to 2026.

Chapter 3, the Water-Cooled Doubly-Fed Converter competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Water-Cooled Doubly-Fed Converter breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Water-Cooled Doubly-Fed Converter market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Water-Cooled Doubly-Fed Converter.

Chapter 14 and 15, to describe Water-Cooled Doubly-Fed Converter sales channel, distributors, customers, research findings and conclusion.

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