

Global Offshore Wind VSC-HVDC Converter Valve Market Growth 2026-2032

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Abstracts

The global Offshore Wind VSC-HVDC Converter Valve market size is predicted to grow from US\$ 1033 million in 2025 to US\$ 3879 million in 2032; it is expected to grow at a CAGR of 20.4% from 2026 to 2032.

The Offshore Wind VSC-HVDC Converter Valve** is the core power conversion equipment used in flexible HVDC transmission systems for large-scale offshore wind farms in mid- to deep-sea and far-offshore areas. Typically employing fully controlled power semiconductors such as IGBTs and a modular multilevel (MMC) topology, these converters transform the AC power aggregated from the wind farm into high-voltage DC at the offshore converter station. The DC power is then transmitted to land via subsea DC cables, where it is converted back to AC at the onshore converter station and fed into the power grid.

In 2025, global sales of F-HVDC converter valves for offshore wind power reached 10,015 MW, with an average price of \$105.48/kW.

Development Trends

Upgrades from $\pm 320/500$ kV to $\pm 525/640$ kV and ± 800 kV

European offshore wind power has evolved from 900 MW-class platforms to 2 GW-class 525 kV platforms. Hitachi Energy's current HVDC Light technology capabilities now cover up to approximately 3,000 MW at the ± 640 kV level.

MMC Has Become the Absolute Mainstream

Traditional two-level and three-level VSCs are gradually being phased out of new large-scale projects in the high-voltage transmission sector. MMC has become the core architecture due to its advantages, including modularity, good voltage scalability, low harmonics, lower device switching frequencies, and ease of redundancy design.

Siemens' HVDC PLUS explicitly adopts the MMC; Mitsubishi's HVDC-Diamond also employs the MMC architecture, covering capacities ranging from 50 MW to over 1,000 MW.

IGBTs Remain Dominant, but IGCT Market Share Will Increase Significantly

Currently, high-voltage butt-jointed IGBTs still dominate the global commercial HVDC market. However, China is actively promoting the development of high-voltage, high-current IGCT technology.

Offshore wind power has become the largest source of demand in Europe

For deep-sea wind farms located 100–300 km or more from the coast, AC transmission is constrained by reactive power and cable charging currents, making HVDC significantly more economical.

In the future, the European North Sea will become the world's largest market for ± 525 kV, 2 GW-class VSC-HVDC converter valves. TenneT's 2 GW standardization plan has already shifted HVDC converter equipment procurement from "project-specific customization" to "platform-based bulk procurement."

Report Scope

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

This Insight Report provides a comprehensive analysis of the global Offshore Wind VSC-HVDC Converter Valve 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 Offshore Wind VSC-HVDC Converter Valve portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Offshore Wind VSC-HVDC Converter Valve market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Offshore Wind VSC-HVDC Converter Valve 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 Offshore Wind VSC-HVDC Converter Valve.

This report presents a comprehensive overview, market shares, and growth opportunities of Offshore Wind VSC-HVDC Converter Valve market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Below ± 320 kV

± 320 –400 kV

Above ± 400 kV to ± 525 kV

Above ± 525 kV

Segmentation by Transmission Capacity:

Below 1 GW

1–1.5 GW

Above 1.5–2 GW

Above 2 GW

Segmentation by MMC Submodule Topology:

Half-Bridge MMC Converter Valve

Full-Bridge MMC Converter Valve

Hybrid MMC Converter Valve

Other MMC Converter Valve

Segmentation by Application:

Fixed-bottom Offshore Wind Power Transmission

Floating Offshore Wind Power Transmission

Far-offshore Wind Power Transmission

Other

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.

Hitachi Energy Ltd.

Siemens Energy AG

GE Vernova Inc.

NR Electric Co., Ltd.

XJ Electric Co., Ltd.

Rongxin Huike Electric Co., Ltd.

TBEA Co., Ltd.

China XD Electric Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Offshore Wind VSC-HVDC Converter Valve market?

What factors are driving Offshore Wind VSC-HVDC Converter Valve market growth, globally and by region?

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

How do Offshore Wind VSC-HVDC Converter Valve market opportunities vary by end market size?

How does Offshore Wind VSC-HVDC Converter Valve break out by Type, by Application?

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