

Global Offshore Wind VSC-HVDC Converter Valve Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G859ADAE87D8EN.html>

Date: September 2026

Pages: 112

Price: US\$ 4,480.00 (Single User License)

ID: G859ADAE87D8EN

Abstracts

The global Offshore Wind VSC-HVDC Converter Valve market size is expected to reach \$ 3843 million by 2032, rising at a market growth of 19.2% CAGR during the forecast period (2026-2032).

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

This report studies the global Offshore Wind VSC-HVDC Converter Valve production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Offshore Wind VSC-HVDC Converter Valve 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 Offshore Wind VSC-HVDC Converter Valve that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Offshore Wind VSC-HVDC Converter Valve total production and demand, 2021-2032, (MW)

Global Offshore Wind VSC-HVDC Converter Valve total production value, 2021-2032, (USD Million)

Global Offshore Wind VSC-HVDC Converter Valve production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (MW), (based on production site)

Global Offshore Wind VSC-HVDC Converter Valve consumption by region & country, CAGR, 2021-2032 & (MW)

U.S. VS China: Offshore Wind VSC-HVDC Converter Valve domestic production, consumption, key domestic manufacturers and share

Global Offshore Wind VSC-HVDC Converter Valve production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (MW)

Global Offshore Wind VSC-HVDC Converter Valve production by Type, production, value, CAGR, 2021-2032, (USD Million) & (MW)

Global Offshore Wind VSC-HVDC Converter Valve production by Application, production, value, CAGR, 2021-2032, (USD Million) & (MW)

This report profiles key players in the global Offshore Wind VSC-HVDC Converter Valve 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 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., 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 Offshore Wind VSC-HVDC Converter Valve market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (MW) and average price (US\$/KW) 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 Offshore Wind VSC-HVDC Converter Valve Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Offshore Wind VSC-HVDC Converter Valve Market, Segmentation by Type:

Below ± 320 kV

± 320 –400 kV

Above ± 400 kV to ± 525 kV

Above ± 525 kV

Global Offshore Wind VSC-HVDC Converter Valve Market, Segmentation by Transmission Capacity:

Below 1 GW

1–1.5 GW

Above 1.5–2 GW

Above 2 GW

Global Offshore Wind VSC-HVDC Converter Valve Market, Segmentation by MMC Submodule Topology:

Half-Bridge MMC Converter Valve

Full-Bridge MMC Converter Valve

Hybrid MMC Converter Valve

Other MMC Converter Valve

Global Offshore Wind VSC-HVDC Converter Valve Market, Segmentation by Application:

Fixed-bottom Offshore Wind Power Transmission

Floating Offshore Wind Power Transmission

Far-offshore Wind Power Transmission

Other

Companies Profiled:

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 Answered

1. How big is the global Offshore Wind VSC-HVDC Converter Valve market?
2. What is the demand of the global Offshore Wind VSC-HVDC Converter Valve market?
3. What is the year over year growth of the global Offshore Wind VSC-HVDC Converter Valve market?
4. What is the total value of the global Offshore Wind VSC-HVDC Converter Valve market?
5. Who are the Major Players in the global Offshore Wind VSC-HVDC Converter Valve market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

1.1 Offshore Wind VSC-HVDC Converter Valve Introduction

1.2 World Offshore Wind VSC-HVDC Converter Valve Supply & Forecast

1.2.1 World Offshore Wind VSC-HVDC Converter Valve Production Value (2021 & 2025 & 2032)

1.2.2 World Offshore Wind VSC-HVDC Converter Valve Production (2021-2032)

1.2.3 World Offshore Wind VSC-HVDC Converter Valve Pricing Trends (2021-2032)

1.3 World Offshore Wind VSC-HVDC Converter Valve Production by Region (Based on Production Site)

1.3.1 World Offshore Wind VSC-HVDC Converter Valve Production Value by Region (2021-2032)

1.3.2 World Offshore Wind VSC-HVDC Converter Valve Production by Region (2021-2032)

1.3.3 World Offshore Wind VSC-HVDC Converter Valve Average Price by Region (2021-2032)

1.3.4 North America Offshore Wind VSC-HVDC Converter Valve Production (2021-2032)

1.3.5 Europe Offshore Wind VSC-HVDC Converter Valve Production (2021-2032)

1.3.6 China Offshore Wind VSC-HVDC Converter Valve Production (2021-2032)

1.3.7 Japan Offshore Wind VSC-HVDC Converter Valve Production (2021-2032)

1.4 Market Drivers, Restraints and Trends

1.4.1 Offshore Wind VSC-HVDC Converter Valve Market Drivers

1.4.2 Factors Affecting Demand

1.4.3 Offshore Wind VSC-HVDC Converter Valve Major Market Trends

2 DEMAND SUMMARY

2.1 World Offshore Wind VSC-HVDC Converter Valve Demand (2021-2032)

2.2 World Offshore Wind VSC-HVDC Converter Valve Consumption by Region

2.2.1 World Offshore Wind VSC-HVDC Converter Valve Consumption by Region (2021-2026)

2.2.2 World Offshore Wind VSC-HVDC Converter Valve Consumption Forecast by Region (2027-2032)

2.3 United States Offshore Wind VSC-HVDC Converter Valve Consumption (2021-2032)

2.4 China Offshore Wind VSC-HVDC Converter Valve Consumption (2021-2032)

- 2.5 Europe Offshore Wind VSC-HVDC Converter Valve Consumption (2021-2032)
- 2.6 Japan Offshore Wind VSC-HVDC Converter Valve Consumption (2021-2032)
- 2.7 South Korea Offshore Wind VSC-HVDC Converter Valve Consumption (2021-2032)
- 2.8 ASEAN Offshore Wind VSC-HVDC Converter Valve Consumption (2021-2032)
- 2.9 India Offshore Wind VSC-HVDC Converter Valve Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Offshore Wind VSC-HVDC Converter Valve Production Value by Manufacturer (2021-2026)
- 3.2 World Offshore Wind VSC-HVDC Converter Valve Production by Manufacturer (2021-2026)
- 3.3 World Offshore Wind VSC-HVDC Converter Valve Average Price by Manufacturer (2021-2026)
- 3.4 Offshore Wind VSC-HVDC Converter Valve Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Offshore Wind VSC-HVDC Converter Valve Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Offshore Wind VSC-HVDC Converter Valve in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Offshore Wind VSC-HVDC Converter Valve in 2025
- 3.6 Offshore Wind VSC-HVDC Converter Valve Market: Overall Company Footprint Analysis
 - 3.6.1 Offshore Wind VSC-HVDC Converter Valve Market: Region Footprint
 - 3.6.2 Offshore Wind VSC-HVDC Converter Valve Market: Company Product Type Footprint
 - 3.6.3 Offshore Wind VSC-HVDC Converter Valve Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Offshore Wind VSC-HVDC Converter Valve Production

Value Comparison

4.1.1 United States VS China: Offshore Wind VSC-HVDC Converter Valve Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Offshore Wind VSC-HVDC Converter Valve Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Offshore Wind VSC-HVDC Converter Valve Production Comparison

4.2.1 United States VS China: Offshore Wind VSC-HVDC Converter Valve Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Offshore Wind VSC-HVDC Converter Valve Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Offshore Wind VSC-HVDC Converter Valve Consumption Comparison

4.3.1 United States VS China: Offshore Wind VSC-HVDC Converter Valve Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Offshore Wind VSC-HVDC Converter Valve Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Offshore Wind VSC-HVDC Converter Valve Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Offshore Wind VSC-HVDC Converter Valve Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Offshore Wind VSC-HVDC Converter Valve Production Value (2021-2026)

4.4.3 United States Based Manufacturers Offshore Wind VSC-HVDC Converter Valve Production (2021-2026)

4.5 China Based Offshore Wind VSC-HVDC Converter Valve Manufacturers and Market Share

4.5.1 China Based Offshore Wind VSC-HVDC Converter Valve Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Offshore Wind VSC-HVDC Converter Valve Production Value (2021-2026)

4.5.3 China Based Manufacturers Offshore Wind VSC-HVDC Converter Valve Production (2021-2026)

4.6 Rest of World Based Offshore Wind VSC-HVDC Converter Valve Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Offshore Wind VSC-HVDC Converter Valve Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Offshore Wind VSC-HVDC Converter Valve Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Offshore Wind VSC-HVDC Converter Valve Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Offshore Wind VSC-HVDC Converter Valve Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Below ± 320 kV

5.2.2 ± 320 –400 kV

5.2.3 Above ± 400 kV to ± 525 kV

5.2.4 Above ± 525 kV

5.3 Market Segment by Type

5.3.1 World Offshore Wind VSC-HVDC Converter Valve Production by Type (2021-2032)

5.3.2 World Offshore Wind VSC-HVDC Converter Valve Production Value by Type (2021-2032)

5.3.3 World Offshore Wind VSC-HVDC Converter Valve Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY TRANSMISSION CAPACITY

6.1 World Offshore Wind VSC-HVDC Converter Valve Market Size Overview by Transmission Capacity: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Transmission Capacity

6.2.1 Below 1 GW

6.2.2 1–1.5 GW

6.2.3 Above 1.5–2 GW

6.2.4 Above 2 GW

6.3 Market Segment by Transmission Capacity

6.3.1 World Offshore Wind VSC-HVDC Converter Valve Production by Transmission Capacity (2021-2032)

6.3.2 World Offshore Wind VSC-HVDC Converter Valve Production Value by Transmission Capacity (2021-2032)

6.3.3 World Offshore Wind VSC-HVDC Converter Valve Average Price by Transmission Capacity (2021-2032)

7 MARKET ANALYSIS BY MMC SUBMODULE TOPOLOGY

7.1 World Offshore Wind VSC-HVDC Converter Valve Market Size Overview by MMC Submodule Topology: 2021 VS 2025 VS 2032

7.2 Segment Introduction by MMC Submodule Topology

7.2.1 Half-Bridge MMC Converter Valve

7.2.2 Full-Bridge MMC Converter Valve

7.2.3 Hybrid MMC Converter Valve

7.2.4 Other MMC Converter Valve

7.3 Market Segment by MMC Submodule Topology

7.3.1 World Offshore Wind VSC-HVDC Converter Valve Production by MMC Submodule Topology (2021-2032)

7.3.2 World Offshore Wind VSC-HVDC Converter Valve Production Value by MMC Submodule Topology (2021-2032)

7.3.3 World Offshore Wind VSC-HVDC Converter Valve Average Price by MMC Submodule Topology (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Offshore Wind VSC-HVDC Converter Valve Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Fixed-bottom Offshore Wind Power Transmission

8.2.2 Floating Offshore Wind Power Transmission

8.2.3 Far-offshore Wind Power Transmission

8.2.4 Other

8.3 Market Segment by Application

8.3.1 World Offshore Wind VSC-HVDC Converter Valve Production by Application (2021-2032)

8.3.2 World Offshore Wind VSC-HVDC Converter Valve Production Value by Application (2021-2032)

8.3.3 World Offshore Wind VSC-HVDC Converter Valve Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Hitachi Energy Ltd.

9.1.1 Hitachi Energy Ltd. Details

9.1.2 Hitachi Energy Ltd. Major Business

9.1.3 Hitachi Energy Ltd. Offshore Wind VSC-HVDC Converter Valve Product and Services

9.1.4 Hitachi Energy Ltd. Offshore Wind VSC-HVDC Converter Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Hitachi Energy Ltd. Recent Developments/Updates

9.1.6 Hitachi Energy Ltd. Competitive Strengths & Weaknesses

9.2 Siemens Energy AG

9.2.1 Siemens Energy AG Details

9.2.2 Siemens Energy AG Major Business

9.2.3 Siemens Energy AG Offshore Wind VSC-HVDC Converter Valve Product and Services

9.2.4 Siemens Energy AG Offshore Wind VSC-HVDC Converter Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Siemens Energy AG Recent Developments/Updates

9.2.6 Siemens Energy AG Competitive Strengths & Weaknesses

9.3 GE Vernova Inc.

9.3.1 GE Vernova Inc. Details

9.3.2 GE Vernova Inc. Major Business

9.3.3 GE Vernova Inc. Offshore Wind VSC-HVDC Converter Valve Product and Services

9.3.4 GE Vernova Inc. Offshore Wind VSC-HVDC Converter Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 GE Vernova Inc. Recent Developments/Updates

9.3.6 GE Vernova Inc. Competitive Strengths & Weaknesses

9.4 NR Electric Co., Ltd.

9.4.1 NR Electric Co., Ltd. Details

9.4.2 NR Electric Co., Ltd. Major Business

9.4.3 NR Electric Co., Ltd. Offshore Wind VSC-HVDC Converter Valve Product and Services

9.4.4 NR Electric Co., Ltd. Offshore Wind VSC-HVDC Converter Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 NR Electric Co., Ltd. Recent Developments/Updates

9.4.6 NR Electric Co., Ltd. Competitive Strengths & Weaknesses

9.5 XJ Electric Co., Ltd.

9.5.1 XJ Electric Co., Ltd. Details

9.5.2 XJ Electric Co., Ltd. Major Business

9.5.3 XJ Electric Co., Ltd. Offshore Wind VSC-HVDC Converter Valve Product and Services

9.5.4 XJ Electric Co., Ltd. Offshore Wind VSC-HVDC Converter Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 XJ Electric Co., Ltd. Recent Developments/Updates

9.5.6 XJ Electric Co., Ltd. Competitive Strengths & Weaknesses

9.6 Rongxin Huike Electric Co., Ltd.

9.6.1 Rongxin Huike Electric Co., Ltd. Details

9.6.2 Rongxin Huike Electric Co., Ltd. Major Business

9.6.3 Rongxin Huike Electric Co., Ltd. Offshore Wind VSC-HVDC Converter Valve Product and Services

9.6.4 Rongxin Huike Electric Co., Ltd. Offshore Wind VSC-HVDC Converter Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Rongxin Huike Electric Co., Ltd. Recent Developments/Updates

9.6.6 Rongxin Huike Electric Co., Ltd. Competitive Strengths & Weaknesses

9.7 TBEA Co., Ltd.

9.7.1 TBEA Co., Ltd. Details

9.7.2 TBEA Co., Ltd. Major Business

9.7.3 TBEA Co., Ltd. Offshore Wind VSC-HVDC Converter Valve Product and Services

9.7.4 TBEA Co., Ltd. Offshore Wind VSC-HVDC Converter Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 TBEA Co., Ltd. Recent Developments/Updates

9.7.6 TBEA Co., Ltd. Competitive Strengths & Weaknesses

9.8 China XD Electric Co., Ltd.

9.8.1 China XD Electric Co., Ltd. Details

9.8.2 China XD Electric Co., Ltd. Major Business

9.8.3 China XD Electric Co., Ltd. Offshore Wind VSC-HVDC Converter Valve Product and Services

9.8.4 China XD Electric Co., Ltd. Offshore Wind VSC-HVDC Converter Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 China XD Electric Co., Ltd. Recent Developments/Updates

9.8.6 China XD Electric Co., Ltd. Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Offshore Wind VSC-HVDC Converter Valve Industry Chain

10.2 Offshore Wind VSC-HVDC Converter Valve Upstream Analysis

10.2.1 Offshore Wind VSC-HVDC Converter Valve Core Raw Materials

10.2.2 Main Manufacturers of Offshore Wind VSC-HVDC Converter Valve Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Offshore Wind VSC-HVDC Converter Valve Production Mode

10.6 Offshore Wind VSC-HVDC Converter Valve Procurement Model

10.7 Offshore Wind VSC-HVDC Converter Valve Industry Sales Model and Sales Channels

10.7.1 Offshore Wind VSC-HVDC Converter Valve Sales Model

10.7.2 Offshore Wind VSC-HVDC Converter Valve Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Offshore Wind VSC-HVDC Converter Valve Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Offshore Wind VSC-HVDC Converter Valve Production Value by Region (2021-2026) & (USD Million)

Table 3. World Offshore Wind VSC-HVDC Converter Valve Production Value by Region (2027-2032) & (USD Million)

Table 4. World Offshore Wind VSC-HVDC Converter Valve Production Value Market Share by Region (2021-2026)

Table 5. World Offshore Wind VSC-HVDC Converter Valve Production Value Market Share by Region (2027-2032)

Table 6. World Offshore Wind VSC-HVDC Converter Valve Production by Region (2021-2026) & (MW)

Table 7. World Offshore Wind VSC-HVDC Converter Valve Production by Region (2027-2032) & (MW)

Table 8. World Offshore Wind VSC-HVDC Converter Valve Production Market Share by Region (2021-2026)

Table 9. World Offshore Wind VSC-HVDC Converter Valve Production Market Share by Region (2027-2032)

Table 10. World Offshore Wind VSC-HVDC Converter Valve Average Price by Region (2021-2026) & (US\$/KW)

Table 11. World Offshore Wind VSC-HVDC Converter Valve Average Price by Region (2027-2032) & (US\$/KW)

Table 12. Offshore Wind VSC-HVDC Converter Valve Major Market Trends

Table 13. World Offshore Wind VSC-HVDC Converter Valve Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (MW)

Table 14. World Offshore Wind VSC-HVDC Converter Valve Consumption by Region (2021-2026) & (MW)

Table 15. World Offshore Wind VSC-HVDC Converter Valve Consumption Forecast by Region (2027-2032) & (MW)

Table 16. World Offshore Wind VSC-HVDC Converter Valve Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Offshore Wind VSC-HVDC Converter Valve Producers in 2025

Table 18. World Offshore Wind VSC-HVDC Converter Valve Production by Manufacturer (2021-2026) & (MW)

Table 19. Production Market Share of Key Offshore Wind VSC-HVDC Converter Valve Producers in 2025

Table 20. World Offshore Wind VSC-HVDC Converter Valve Average Price by Manufacturer (2021-2026) & (US\$/KW)

Table 21. Global Offshore Wind VSC-HVDC Converter Valve Company Evaluation Quadrant

Table 22. World Offshore Wind VSC-HVDC Converter Valve Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Offshore Wind VSC-HVDC Converter Valve Production Site of Key Manufacturer

Table 24. Offshore Wind VSC-HVDC Converter Valve Market: Company Product Type Footprint

Table 25. Offshore Wind VSC-HVDC Converter Valve Market: Company Product Application Footprint

Table 26. Offshore Wind VSC-HVDC Converter Valve Competitive Factors

Table 27. Offshore Wind VSC-HVDC Converter Valve New Entrant and Capacity Expansion Plans

Table 28. Offshore Wind VSC-HVDC Converter Valve Mergers & Acquisitions Activity

Table 29. United States VS China Offshore Wind VSC-HVDC Converter Valve Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Offshore Wind VSC-HVDC Converter Valve Production Comparison, (2021 & 2025 & 2032) & (MW)

Table 31. United States VS China Offshore Wind VSC-HVDC Converter Valve Consumption Comparison, (2021 & 2025 & 2032) & (MW)

Table 32. United States Based Offshore Wind VSC-HVDC Converter Valve Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Offshore Wind VSC-HVDC Converter Valve Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Offshore Wind VSC-HVDC Converter Valve Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Offshore Wind VSC-HVDC Converter Valve Production (2021-2026) & (MW)

Table 36. United States Based Manufacturers Offshore Wind VSC-HVDC Converter Valve Production Market Share (2021-2026)

Table 37. China Based Offshore Wind VSC-HVDC Converter Valve Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Offshore Wind VSC-HVDC Converter Valve Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Offshore Wind VSC-HVDC Converter Valve

Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Offshore Wind VSC-HVDC Converter Valve Production, (2021-2026) & (MW)

Table 41. China Based Manufacturers Offshore Wind VSC-HVDC Converter Valve Production Market Share (2021-2026)

Table 42. Rest of World Based Offshore Wind VSC-HVDC Converter Valve Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Offshore Wind VSC-HVDC Converter Valve Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Offshore Wind VSC-HVDC Converter Valve Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Offshore Wind VSC-HVDC Converter Valve Production, (2021-2026) & (MW)

Table 46. Rest of World Based Manufacturers Offshore Wind VSC-HVDC Converter Valve Production Market Share (2021-2026)

Table 47. World Offshore Wind VSC-HVDC Converter Valve Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Offshore Wind VSC-HVDC Converter Valve Production by Type (2021-2026) & (MW)

Table 49. World Offshore Wind VSC-HVDC Converter Valve Production by Type (2027-2032) & (MW)

Table 50. World Offshore Wind VSC-HVDC Converter Valve Production Value by Type (2021-2026) & (USD Million)

Table 51. World Offshore Wind VSC-HVDC Converter Valve Production Value by Type (2027-2032) & (USD Million)

Table 52. World Offshore Wind VSC-HVDC Converter Valve Average Price by Type (2021-2026) & (US\$/KW)

Table 53. World Offshore Wind VSC-HVDC Converter Valve Average Price by Type (2027-2032) & (US\$/KW)

Table 54. World Offshore Wind VSC-HVDC Converter Valve Production Value by Transmission Capacity, (USD Million), 2021 & 2025 & 2032

Table 55. World Offshore Wind VSC-HVDC Converter Valve Production by Transmission Capacity (2021-2026) & (MW)

Table 56. World Offshore Wind VSC-HVDC Converter Valve Production by Transmission Capacity (2027-2032) & (MW)

Table 57. World Offshore Wind VSC-HVDC Converter Valve Production Value by Transmission Capacity (2021-2026) & (USD Million)

Table 58. World Offshore Wind VSC-HVDC Converter Valve Production Value by Transmission Capacity (2027-2032) & (USD Million)

Table 59. World Offshore Wind VSC-HVDC Converter Valve Average Price by Transmission Capacity (2021-2026) & (US\$/KW)

Table 60. World Offshore Wind VSC-HVDC Converter Valve Average Price by Transmission Capacity (2027-2032) & (US\$/KW)

Table 61. World Offshore Wind VSC-HVDC Converter Valve Production Value by MMC Submodule Topology, (USD Million), 2021 & 2025 & 2032

Table 62. World Offshore Wind VSC-HVDC Converter Valve Production by MMC Submodule Topology (2021-2026) & (MW)

Table 63. World Offshore Wind VSC-HVDC Converter Valve Production by MMC Submodule Topology (2027-2032) & (MW)

Table 64. World Offshore Wind VSC-HVDC Converter Valve Production Value by MMC Submodule Topology (2021-2026) & (USD Million)

Table 65. World Offshore Wind VSC-HVDC Converter Valve Production Value by MMC Submodule Topology (2027-2032) & (USD Million)

Table 66. World Offshore Wind VSC-HVDC Converter Valve Average Price by MMC Submodule Topology (2021-2026) & (US\$/KW)

Table 67. World Offshore Wind VSC-HVDC Converter Valve Average Price by MMC Submodule Topology (2027-2032) & (US\$/KW)

Table 68. World Offshore Wind VSC-HVDC Converter Valve Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Offshore Wind VSC-HVDC Converter Valve Production by Application (2021-2026) & (MW)

Table 70. World Offshore Wind VSC-HVDC Converter Valve Production by Application (2027-2032) & (MW)

Table 71. World Offshore Wind VSC-HVDC Converter Valve Production Value by Application (2021-2026) & (USD Million)

Table 72. World Offshore Wind VSC-HVDC Converter Valve Production Value by Application (2027-2032) & (USD Million)

Table 73. World Offshore Wind VSC-HVDC Converter Valve Average Price by Application (2021-2026) & (US\$/KW)

Table 74. World Offshore Wind VSC-HVDC Converter Valve Average Price by Application (2027-2032) & (US\$/KW)

Table 75. Hitachi Energy Ltd. Basic Information, Manufacturing Base and Competitors

Table 76. Hitachi Energy Ltd. Major Business

Table 77. Hitachi Energy Ltd. Offshore Wind VSC-HVDC Converter Valve Product and Services

Table 78. Hitachi Energy Ltd. Offshore Wind VSC-HVDC Converter Valve Production (MW), Price (US\$/KW), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Hitachi Energy Ltd. Recent Developments/Updates

Table 80. Hitachi Energy Ltd. Competitive Strengths & Weaknesses

Table 81. Siemens Energy AG Basic Information, Manufacturing Base and Competitors

Table 82. Siemens Energy AG Major Business

Table 83. Siemens Energy AG Offshore Wind VSC-HVDC Converter Valve Product and Services

Table 84. Siemens Energy AG Offshore Wind VSC-HVDC Converter Valve Production (MW), Price (US\$/KW), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Siemens Energy AG Recent Developments/Updates

Table 86. Siemens Energy AG Competitive Strengths & Weaknesses

Table 87. GE Vernova Inc. Basic Information, Manufacturing Base and Competitors

Table 88. GE Vernova Inc. Major Business

Table 89. GE Vernova Inc. Offshore Wind VSC-HVDC Converter Valve Product and Services

Table 90. GE Vernova Inc. Offshore Wind VSC-HVDC Converter Valve Production (MW), Price (US\$/KW), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. GE Vernova Inc. Recent Developments/Updates

Table 92. GE Vernova Inc. Competitive Strengths & Weaknesses

Table 93. NR Electric Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 94. NR Electric Co., Ltd. Major Business

Table 95. NR Electric Co., Ltd. Offshore Wind VSC-HVDC Converter Valve Product and Services

Table 96. NR Electric Co., Ltd. Offshore Wind VSC-HVDC Converter Valve Production (MW), Price (US\$/KW), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. NR Electric Co., Ltd. Recent Developments/Updates

Table 98. NR Electric Co., Ltd. Competitive Strengths & Weaknesses

Table 99. XJ Electric Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 100. XJ Electric Co., Ltd. Major Business

Table 101. XJ Electric Co., Ltd. Offshore Wind VSC-HVDC Converter Valve Product and Services

Table 102. XJ Electric Co., Ltd. Offshore Wind VSC-HVDC Converter Valve Production (MW), Price (US\$/KW), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. XJ Electric Co., Ltd. Recent Developments/Updates

Table 104. XJ Electric Co., Ltd. Competitive Strengths & Weaknesses

Table 105. Rongxin Huike Electric Co., Ltd. Basic Information, Manufacturing Base and

Competitors

Table 106. Rongxin Huike Electric Co., Ltd. Major Business

Table 107. Rongxin Huike Electric Co., Ltd. Offshore Wind VSC-HVDC Converter Valve Product and Services

Table 108. Rongxin Huike Electric Co., Ltd. Offshore Wind VSC-HVDC Converter Valve Production (MW), Price (US\$/KW), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Rongxin Huike Electric Co., Ltd. Recent Developments/Updates

Table 110. Rongxin Huike Electric Co., Ltd. Competitive Strengths & Weaknesses

Table 111. TBEA Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 112. TBEA Co., Ltd. Major Business

Table 113. TBEA Co., Ltd. Offshore Wind VSC-HVDC Converter Valve Product and Services

Table 114. TBEA Co., Ltd. Offshore Wind VSC-HVDC Converter Valve Production (MW), Price (US\$/KW), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. TBEA Co., Ltd. Recent Developments/Updates

Table 116. TBEA Co., Ltd. Competitive Strengths & Weaknesses

Table 117. China XD Electric Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 118. China XD Electric Co., Ltd. Major Business

Table 119. China XD Electric Co., Ltd. Offshore Wind VSC-HVDC Converter Valve Product and Services

Table 120. China XD Electric Co., Ltd. Offshore Wind VSC-HVDC Converter Valve Production (MW), Price (US\$/KW), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. China XD Electric Co., Ltd. Recent Developments/Updates

Table 122. China XD Electric Co., Ltd. Competitive Strengths & Weaknesses

Table 123. Global Key Players of Offshore Wind VSC-HVDC Converter Valve Upstream (Raw Materials)

Table 124. Global Offshore Wind VSC-HVDC Converter Valve Typical Customers

Table 125. Offshore Wind VSC-HVDC Converter Valve Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Offshore Wind VSC-HVDC Converter Valve Picture

Figure 2. World Offshore Wind VSC-HVDC Converter Valve Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Offshore Wind VSC-HVDC Converter Valve Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Offshore Wind VSC-HVDC Converter Valve Production (2021-2032) & (MW)

Figure 5. World Offshore Wind VSC-HVDC Converter Valve Average Price (2021-2032) & (US\$/KW)

Figure 6. World Offshore Wind VSC-HVDC Converter Valve Production Value Market Share by Region (2021-2032)

Figure 7. World Offshore Wind VSC-HVDC Converter Valve Production Market Share by Region (2021-2032)

Figure 8. North America Offshore Wind VSC-HVDC Converter Valve Production (2021-2032) & (MW)

Figure 9. Europe Offshore Wind VSC-HVDC Converter Valve Production (2021-2032) & (MW)

Figure 10. China Offshore Wind VSC-HVDC Converter Valve Production (2021-2032) & (MW)

Figure 11. Japan Offshore Wind VSC-HVDC Converter Valve Production (2021-2032) & (MW)

Figure 12. Offshore Wind VSC-HVDC Converter Valve Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Offshore Wind VSC-HVDC Converter Valve Consumption (2021-2032) & (MW)

Figure 15. World Offshore Wind VSC-HVDC Converter Valve Consumption Market Share by Region (2021-2032)

Figure 16. United States Offshore Wind VSC-HVDC Converter Valve Consumption (2021-2032) & (MW)

Figure 17. China Offshore Wind VSC-HVDC Converter Valve Consumption (2021-2032) & (MW)

Figure 18. Europe Offshore Wind VSC-HVDC Converter Valve Consumption (2021-2032) & (MW)

Figure 19. Japan Offshore Wind VSC-HVDC Converter Valve Consumption (2021-2032) & (MW)

Figure 20. South Korea Offshore Wind VSC-HVDC Converter Valve Consumption (2021-2032) & (MW)

Figure 21. ASEAN Offshore Wind VSC-HVDC Converter Valve Consumption (2021-2032) & (MW)

Figure 22. India Offshore Wind VSC-HVDC Converter Valve Consumption (2021-2032) & (MW)

Figure 23. Producer Shipments of Offshore Wind VSC-HVDC Converter Valve by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Offshore Wind VSC-HVDC Converter Valve Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Offshore Wind VSC-HVDC Converter Valve Markets in 2025

Figure 26. United States VS China: Offshore Wind VSC-HVDC Converter Valve Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Offshore Wind VSC-HVDC Converter Valve Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Offshore Wind VSC-HVDC Converter Valve Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Offshore Wind VSC-HVDC Converter Valve Production Market Share 2025

Figure 30. China Based Manufacturers Offshore Wind VSC-HVDC Converter Valve Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Offshore Wind VSC-HVDC Converter Valve Production Market Share 2025

Figure 32. World Offshore Wind VSC-HVDC Converter Valve Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Offshore Wind VSC-HVDC Converter Valve Production Value Market Share by Type in 2025

Figure 34. Below ± 320 kV

Figure 35. ± 320 –400 kV

Figure 36. Above ± 400 kV to ± 525 kV

Figure 37. Above ± 525 kV

Figure 38. World Offshore Wind VSC-HVDC Converter Valve Production Market Share by Type (2021-2032)

Figure 39. World Offshore Wind VSC-HVDC Converter Valve Production Value Market Share by Type (2021-2032)

Figure 40. World Offshore Wind VSC-HVDC Converter Valve Average Price by Type (2021-2032) & (US\$/KW)

Figure 41. World Offshore Wind VSC-HVDC Converter Valve Production Value by

Transmission Capacity, (USD Million), 2021 & 2025 & 2032

Figure 42. World Offshore Wind VSC-HVDC Converter Valve Production Value Market Share by Transmission Capacity in 2025

Figure 43. Below 1 GW

Figure 44. 1–1.5 GW

Figure 45. Above 1.5–2 GW

Figure 46. Above 2 GW

Figure 47. World Offshore Wind VSC-HVDC Converter Valve Production Market Share by Transmission Capacity (2021-2032)

Figure 48. World Offshore Wind VSC-HVDC Converter Valve Production Value Market Share by Transmission Capacity (2021-2032)

Figure 49. World Offshore Wind VSC-HVDC Converter Valve Average Price by Transmission Capacity (2021-2032) & (US\$/KW)

Figure 50. World Offshore Wind VSC-HVDC Converter Valve Production Value by MMC Submodule Topology, (USD Million), 2021 & 2025 & 2032

Figure 51. World Offshore Wind VSC-HVDC Converter Valve Production Value Market Share by MMC Submodule Topology in 2025

Figure 52. Half-Bridge MMC Converter Valve

Figure 53. Full-Bridge MMC Converter Valve

Figure 54. Hybrid MMC Converter Valve

Figure 55. Other MMC Converter Valve

Figure 56. World Offshore Wind VSC-HVDC Converter Valve Production Market Share by MMC Submodule Topology (2021-2032)

Figure 57. World Offshore Wind VSC-HVDC Converter Valve Production Value Market Share by MMC Submodule Topology (2021-2032)

Figure 58. World Offshore Wind VSC-HVDC Converter Valve Average Price by MMC Submodule Topology (2021-2032) & (US\$/KW)

Figure 59. World Offshore Wind VSC-HVDC Converter Valve Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 60. World Offshore Wind VSC-HVDC Converter Valve Production Value Market Share by Application in 2025

Figure 61. Fixed-bottom Offshore Wind Power Transmission

Figure 62. Floating Offshore Wind Power Transmission

Figure 63. Far-offshore Wind Power Transmission

Figure 64. Other

Figure 65. World Offshore Wind VSC-HVDC Converter Valve Production Market Share by Application (2021-2032)

Figure 66. World Offshore Wind VSC-HVDC Converter Valve Production Value Market Share by Application (2021-2032)

Figure 67. World Offshore Wind VSC-HVDC Converter Valve Average Price by Application (2021-2032) & (US\$/KW)

Figure 68. Offshore Wind VSC-HVDC Converter Valve Industry Chain

Figure 69. Offshore Wind VSC-HVDC Converter Valve Procurement Model

Figure 70. Offshore Wind VSC-HVDC Converter Valve Sales Model

Figure 71. Offshore Wind VSC-HVDC Converter Valve Sales Channels, Direct Sales, and Distribution

Figure 72. Methodology

Figure 73. Research Process and Data Source

I would like to order

Product name: Global Offshore Wind VSC-HVDC Converter Valve Supply, Demand and Key Producers, 2026-2032

Product link: <https://marketpublishers.com/r/G859ADAE87D8EN.html>

Price: US\$ 4,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G859ADAE87D8EN.html>