

# Global High Voltage Direct Current (HVDC) Transmission Market Research Report 2024(Status and Outlook)

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## Abstracts

### Report Overview:

HVDC Transmission uses direct current for the bulk transmission of electrical power, in contrast with the more common alternating current (AC) systems. For long-distance transmission, HVDC systems may be less expensive and suffer lower electrical losses. For underwater power cables, HVDC avoids the heavy currents required to charge and discharge the cable capacitance each cycle. For shorter distances, the higher cost of DC conversion equipment compared to an AC system may still be justified, due to other benefits of direct current links.

HVDC allows power transmission between unsynchronized AC transmission systems. Since the power flow through an HVDC link can be controlled independently of the phase angle between source and load, it can stabilize a network against disturbances due to rapid changes in power. HVDC also allows transfer of power between grid systems running at different frequencies, such as 50 Hz and 60 Hz. This improves the stability and economy of each grid, by allowing exchange of power between incompatible networks.

The Global High Voltage Direct Current (HVDC) Transmission Market Size was estimated at USD 6046.80 million in 2023 and is projected to reach USD 9125.62 million by 2029, exhibiting a CAGR of 7.10% during the forecast period.

This report provides a deep insight into the global High Voltage Direct Current (HVDC) Transmission market covering all its essential aspects. This ranges from a macro overview of the market to micro details of the market size, competitive landscape,

development trend, niche market, key market drivers and challenges, SWOT analysis, Porter's five forces analysis, value chain analysis, etc.

The analysis helps the reader to shape the competition within the industries and strategies for the competitive environment to enhance the potential profit. Furthermore, it provides a simple framework for evaluating and accessing the position of the business organization. The report structure also focuses on the competitive landscape of the Global High Voltage Direct Current (HVDC) Transmission Market, this report introduces in detail the market share, market performance, product situation, operation situation, etc. of the main players, which helps the readers in the industry to identify the main competitors and deeply understand the competition pattern of the market.

In a word, this report is a must-read for industry players, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are planning to foray into the High Voltage Direct Current (HVDC) Transmission market in any manner.

## Global High Voltage Direct Current (HVDC) Transmission Market: Market Segmentation Analysis

The research report includes specific segments by region (country), manufacturers, Type, and Application. Market segmentation creates subsets of a market based on product type, end-user or application, Geographic, and other factors. By understanding the market segments, the decision-maker can leverage this targeting in the product, sales, and marketing strategies. Market segments can power your product development cycles by informing how you create product offerings for different segments.

### Key Company

Hitachi ABB Power Grids

Siemens

Prysmian Group

XD Group

GE Grid Solution

TBEA

Xuji Group

Nexans

NKT

Toshiba Energy Systems & Solutions

Mitsubishi Electric

NR Electric

Market Segmentation (by Type)

Less than 400 KV

400-800 KV

Above 800 KV

Market Segmentation (by Application)

Overhead Transmission

Underground Transmission

Subsea Transmission

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

#### Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the High Voltage Direct Current (HVDC) Transmission Market

Overview of the regional outlook of the High Voltage Direct Current (HVDC) Transmission Market:

#### Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value (USD Billion) data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

## Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Note: this report may need to undergo a final check or review and this could take about 48 hours.

## Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the High Voltage Direct Current (HVDC) Transmission Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the Market's Competitive Landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share,

product introduction, recent development, etc.

Chapter 10 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 11 provides a quantitative analysis of the market size and development potential of each market segment (product type and application) in the next five years.

Chapter 12 is the main points and conclusions of the report.

## Contents

### **1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE**

1.1 Market Definition and Statistical Scope of High Voltage Direct Current (HVDC) Transmission

1.2 Key Market Segments

1.2.1 High Voltage Direct Current (HVDC) Transmission Segment by Type

1.2.2 High Voltage Direct Current (HVDC) Transmission Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

### **2 HIGH VOLTAGE DIRECT CURRENT (HVDC) TRANSMISSION MARKET OVERVIEW**

2.1 Global Market Overview

2.1.1 Global High Voltage Direct Current (HVDC) Transmission Market Size (M USD) Estimates and Forecasts (2019-2030)

2.1.2 Global High Voltage Direct Current (HVDC) Transmission Sales Estimates and Forecasts (2019-2030)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

### **3 HIGH VOLTAGE DIRECT CURRENT (HVDC) TRANSMISSION MARKET COMPETITIVE LANDSCAPE**

3.1 Global High Voltage Direct Current (HVDC) Transmission Sales by Manufacturers (2019-2024)

3.2 Global High Voltage Direct Current (HVDC) Transmission Revenue Market Share by Manufacturers (2019-2024)

3.3 High Voltage Direct Current (HVDC) Transmission Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.4 Global High Voltage Direct Current (HVDC) Transmission Average Price by Manufacturers (2019-2024)

3.5 Manufacturers High Voltage Direct Current (HVDC) Transmission Sales Sites, Area



Served, Product Type

3.6 High Voltage Direct Current (HVDC) Transmission Market Competitive Situation and Trends

3.6.1 High Voltage Direct Current (HVDC) Transmission Market Concentration Rate

3.6.2 Global 5 and 10 Largest High Voltage Direct Current (HVDC) Transmission Players Market Share by Revenue

3.6.3 Mergers & Acquisitions, Expansion

## **4 HIGH VOLTAGE DIRECT CURRENT (HVDC) TRANSMISSION INDUSTRY CHAIN ANALYSIS**

4.1 High Voltage Direct Current (HVDC) Transmission Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

## **5 THE DEVELOPMENT AND DYNAMICS OF HIGH VOLTAGE DIRECT CURRENT (HVDC) TRANSMISSION MARKET**

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Market Restraints

5.5 Industry News

5.5.1 New Product Developments

5.5.2 Mergers & Acquisitions

5.5.3 Expansions

5.5.4 Collaboration/Supply Contracts

5.6 Industry Policies

## **6 HIGH VOLTAGE DIRECT CURRENT (HVDC) TRANSMISSION MARKET SEGMENTATION BY TYPE**

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global High Voltage Direct Current (HVDC) Transmission Sales Market Share by Type (2019-2024)

6.3 Global High Voltage Direct Current (HVDC) Transmission Market Size Market Share by Type (2019-2024)

6.4 Global High Voltage Direct Current (HVDC) Transmission Price by Type

(2019-2024)

## **7 HIGH VOLTAGE DIRECT CURRENT (HVDC) TRANSMISSION MARKET SEGMENTATION BY APPLICATION**

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global High Voltage Direct Current (HVDC) Transmission Market Sales by Application (2019-2024)
- 7.3 Global High Voltage Direct Current (HVDC) Transmission Market Size (M USD) by Application (2019-2024)
- 7.4 Global High Voltage Direct Current (HVDC) Transmission Sales Growth Rate by Application (2019-2024)

## **8 HIGH VOLTAGE DIRECT CURRENT (HVDC) TRANSMISSION MARKET SEGMENTATION BY REGION**

- 8.1 Global High Voltage Direct Current (HVDC) Transmission Sales by Region
  - 8.1.1 Global High Voltage Direct Current (HVDC) Transmission Sales by Region
  - 8.1.2 Global High Voltage Direct Current (HVDC) Transmission Sales Market Share by Region
- 8.2 North America
  - 8.2.1 North America High Voltage Direct Current (HVDC) Transmission Sales by Country
  - 8.2.2 U.S.
  - 8.2.3 Canada
  - 8.2.4 Mexico
- 8.3 Europe
  - 8.3.1 Europe High Voltage Direct Current (HVDC) Transmission Sales by Country
  - 8.3.2 Germany
  - 8.3.3 France
  - 8.3.4 U.K.
  - 8.3.5 Italy
  - 8.3.6 Russia
- 8.4 Asia Pacific
  - 8.4.1 Asia Pacific High Voltage Direct Current (HVDC) Transmission Sales by Region
  - 8.4.2 China
  - 8.4.3 Japan
  - 8.4.4 South Korea
  - 8.4.5 India

8.4.6 Southeast Asia

8.5 South America

8.5.1 South America High Voltage Direct Current (HVDC) Transmission Sales by Country

8.5.2 Brazil

8.5.3 Argentina

8.5.4 Columbia

8.6 Middle East and Africa

8.6.1 Middle East and Africa High Voltage Direct Current (HVDC) Transmission Sales by Region

8.6.2 Saudi Arabia

8.6.3 UAE

8.6.4 Egypt

8.6.5 Nigeria

8.6.6 South Africa

## **9 KEY COMPANIES PROFILE**

9.1 Hitachi ABB Power Grids

9.1.1 Hitachi ABB Power Grids High Voltage Direct Current (HVDC) Transmission Basic Information

9.1.2 Hitachi ABB Power Grids High Voltage Direct Current (HVDC) Transmission Product Overview

9.1.3 Hitachi ABB Power Grids High Voltage Direct Current (HVDC) Transmission Product Market Performance

9.1.4 Hitachi ABB Power Grids Business Overview

9.1.5 Hitachi ABB Power Grids High Voltage Direct Current (HVDC) Transmission SWOT Analysis

9.1.6 Hitachi ABB Power Grids Recent Developments

9.2 Siemens

9.2.1 Siemens High Voltage Direct Current (HVDC) Transmission Basic Information

9.2.2 Siemens High Voltage Direct Current (HVDC) Transmission Product Overview

9.2.3 Siemens High Voltage Direct Current (HVDC) Transmission Product Market Performance

9.2.4 Siemens Business Overview

9.2.5 Siemens High Voltage Direct Current (HVDC) Transmission SWOT Analysis

9.2.6 Siemens Recent Developments

9.3 Prysmian Group

9.3.1 Prysmian Group High Voltage Direct Current (HVDC) Transmission Basic

## Information

9.3.2 Prysmian Group High Voltage Direct Current (HVDC) Transmission Product Overview

9.3.3 Prysmian Group High Voltage Direct Current (HVDC) Transmission Product Market Performance

9.3.4 Prysmian Group High Voltage Direct Current (HVDC) Transmission SWOT Analysis

9.3.5 Prysmian Group Business Overview

9.3.6 Prysmian Group Recent Developments

## 9.4 XD Group

9.4.1 XD Group High Voltage Direct Current (HVDC) Transmission Basic Information

9.4.2 XD Group High Voltage Direct Current (HVDC) Transmission Product Overview

9.4.3 XD Group High Voltage Direct Current (HVDC) Transmission Product Market Performance

9.4.4 XD Group Business Overview

9.4.5 XD Group Recent Developments

## 9.5 GE Grid Solution

9.5.1 GE Grid Solution High Voltage Direct Current (HVDC) Transmission Basic Information

9.5.2 GE Grid Solution High Voltage Direct Current (HVDC) Transmission Product Overview

9.5.3 GE Grid Solution High Voltage Direct Current (HVDC) Transmission Product Market Performance

9.5.4 GE Grid Solution Business Overview

9.5.5 GE Grid Solution Recent Developments

## 9.6 TBEA

9.6.1 TBEA High Voltage Direct Current (HVDC) Transmission Basic Information

9.6.2 TBEA High Voltage Direct Current (HVDC) Transmission Product Overview

9.6.3 TBEA High Voltage Direct Current (HVDC) Transmission Product Market Performance

9.6.4 TBEA Business Overview

9.6.5 TBEA Recent Developments

## 9.7 Xuji Group

9.7.1 Xuji Group High Voltage Direct Current (HVDC) Transmission Basic Information

9.7.2 Xuji Group High Voltage Direct Current (HVDC) Transmission Product Overview

9.7.3 Xuji Group High Voltage Direct Current (HVDC) Transmission Product Market Performance

9.7.4 Xuji Group Business Overview

9.7.5 Xuji Group Recent Developments

## 9.8 Nexans

9.8.1 Nexans High Voltage Direct Current (HVDC) Transmission Basic Information

9.8.2 Nexans High Voltage Direct Current (HVDC) Transmission Product Overview

9.8.3 Nexans High Voltage Direct Current (HVDC) Transmission Product Market

Performance

9.8.4 Nexans Business Overview

9.8.5 Nexans Recent Developments

## 9.9 NKT

9.9.1 NKT High Voltage Direct Current (HVDC) Transmission Basic Information

9.9.2 NKT High Voltage Direct Current (HVDC) Transmission Product Overview

9.9.3 NKT High Voltage Direct Current (HVDC) Transmission Product Market

Performance

9.9.4 NKT Business Overview

9.9.5 NKT Recent Developments

## 9.10 Toshiba Energy Systems and Solutions

9.10.1 Toshiba Energy Systems and Solutions High Voltage Direct Current (HVDC) Transmission Basic Information

9.10.2 Toshiba Energy Systems and Solutions High Voltage Direct Current (HVDC) Transmission Product Overview

9.10.3 Toshiba Energy Systems and Solutions High Voltage Direct Current (HVDC) Transmission Product Market Performance

9.10.4 Toshiba Energy Systems and Solutions Business Overview

9.10.5 Toshiba Energy Systems and Solutions Recent Developments

## 9.11 Mitsubishi Electric

9.11.1 Mitsubishi Electric High Voltage Direct Current (HVDC) Transmission Basic Information

9.11.2 Mitsubishi Electric High Voltage Direct Current (HVDC) Transmission Product Overview

9.11.3 Mitsubishi Electric High Voltage Direct Current (HVDC) Transmission Product Market Performance

9.11.4 Mitsubishi Electric Business Overview

9.11.5 Mitsubishi Electric Recent Developments

## 9.12 NR Electric

9.12.1 NR Electric High Voltage Direct Current (HVDC) Transmission Basic Information

9.12.2 NR Electric High Voltage Direct Current (HVDC) Transmission Product Overview

9.12.3 NR Electric High Voltage Direct Current (HVDC) Transmission Product Market Performance

- 9.12.4 NR Electric Business Overview
- 9.12.5 NR Electric Recent Developments

## **10 HIGH VOLTAGE DIRECT CURRENT (HVDC) TRANSMISSION MARKET FORECAST BY REGION**

- 10.1 Global High Voltage Direct Current (HVDC) Transmission Market Size Forecast
- 10.2 Global High Voltage Direct Current (HVDC) Transmission Market Forecast by Region
  - 10.2.1 North America Market Size Forecast by Country
  - 10.2.2 Europe High Voltage Direct Current (HVDC) Transmission Market Size Forecast by Country
  - 10.2.3 Asia Pacific High Voltage Direct Current (HVDC) Transmission Market Size Forecast by Region
  - 10.2.4 South America High Voltage Direct Current (HVDC) Transmission Market Size Forecast by Country
  - 10.2.5 Middle East and Africa Forecasted Consumption of High Voltage Direct Current (HVDC) Transmission by Country

## **11 FORECAST MARKET BY TYPE AND BY APPLICATION (2025-2030)**

- 11.1 Global High Voltage Direct Current (HVDC) Transmission Market Forecast by Type (2025-2030)
  - 11.1.1 Global Forecasted Sales of High Voltage Direct Current (HVDC) Transmission by Type (2025-2030)
  - 11.1.2 Global High Voltage Direct Current (HVDC) Transmission Market Size Forecast by Type (2025-2030)
  - 11.1.3 Global Forecasted Price of High Voltage Direct Current (HVDC) Transmission by Type (2025-2030)
- 11.2 Global High Voltage Direct Current (HVDC) Transmission Market Forecast by Application (2025-2030)
  - 11.2.1 Global High Voltage Direct Current (HVDC) Transmission Sales (K Units) Forecast by Application
  - 11.2.2 Global High Voltage Direct Current (HVDC) Transmission Market Size (M USD) Forecast by Application (2025-2030)

## **12 CONCLUSION AND KEY FINDINGS**

## List Of Tables

### LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Market Size (M USD) Segment Executive Summary

Table 4. High Voltage Direct Current (HVDC) Transmission Market Size Comparison by Region (M USD)

Table 5. Global High Voltage Direct Current (HVDC) Transmission Sales (K Units) by Manufacturers (2019-2024)

Table 6. Global High Voltage Direct Current (HVDC) Transmission Sales Market Share by Manufacturers (2019-2024)

Table 7. Global High Voltage Direct Current (HVDC) Transmission Revenue (M USD) by Manufacturers (2019-2024)

Table 8. Global High Voltage Direct Current (HVDC) Transmission Revenue Share by Manufacturers (2019-2024)

Table 9. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in High Voltage Direct Current (HVDC) Transmission as of 2022)

Table 10. Global Market High Voltage Direct Current (HVDC) Transmission Average Price (USD/Unit) of Key Manufacturers (2019-2024)

Table 11. Manufacturers High Voltage Direct Current (HVDC) Transmission Sales Sites and Area Served

Table 12. Manufacturers High Voltage Direct Current (HVDC) Transmission Product Type

Table 13. Global High Voltage Direct Current (HVDC) Transmission Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 14. Mergers & Acquisitions, Expansion Plans

Table 15. Industry Chain Map of High Voltage Direct Current (HVDC) Transmission

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. High Voltage Direct Current (HVDC) Transmission Market Challenges

Table 22. Global High Voltage Direct Current (HVDC) Transmission Sales by Type (K Units)

Table 23. Global High Voltage Direct Current (HVDC) Transmission Market Size by Type (M USD)

- Table 24. Global High Voltage Direct Current (HVDC) Transmission Sales (K Units) by Type (2019-2024)
- Table 25. Global High Voltage Direct Current (HVDC) Transmission Sales Market Share by Type (2019-2024)
- Table 26. Global High Voltage Direct Current (HVDC) Transmission Market Size (M USD) by Type (2019-2024)
- Table 27. Global High Voltage Direct Current (HVDC) Transmission Market Size Share by Type (2019-2024)
- Table 28. Global High Voltage Direct Current (HVDC) Transmission Price (USD/Unit) by Type (2019-2024)
- Table 29. Global High Voltage Direct Current (HVDC) Transmission Sales (K Units) by Application
- Table 30. Global High Voltage Direct Current (HVDC) Transmission Market Size by Application
- Table 31. Global High Voltage Direct Current (HVDC) Transmission Sales by Application (2019-2024) & (K Units)
- Table 32. Global High Voltage Direct Current (HVDC) Transmission Sales Market Share by Application (2019-2024)
- Table 33. Global High Voltage Direct Current (HVDC) Transmission Sales by Application (2019-2024) & (M USD)
- Table 34. Global High Voltage Direct Current (HVDC) Transmission Market Share by Application (2019-2024)
- Table 35. Global High Voltage Direct Current (HVDC) Transmission Sales Growth Rate by Application (2019-2024)
- Table 36. Global High Voltage Direct Current (HVDC) Transmission Sales by Region (2019-2024) & (K Units)
- Table 37. Global High Voltage Direct Current (HVDC) Transmission Sales Market Share by Region (2019-2024)
- Table 38. North America High Voltage Direct Current (HVDC) Transmission Sales by Country (2019-2024) & (K Units)
- Table 39. Europe High Voltage Direct Current (HVDC) Transmission Sales by Country (2019-2024) & (K Units)
- Table 40. Asia Pacific High Voltage Direct Current (HVDC) Transmission Sales by Region (2019-2024) & (K Units)
- Table 41. South America High Voltage Direct Current (HVDC) Transmission Sales by Country (2019-2024) & (K Units)
- Table 42. Middle East and Africa High Voltage Direct Current (HVDC) Transmission Sales by Region (2019-2024) & (K Units)
- Table 43. Hitachi ABB Power Grids High Voltage Direct Current (HVDC) Transmission



## Basic Information

Table 44. Hitachi ABB Power Grids High Voltage Direct Current (HVDC) Transmission Product Overview

Table 45. Hitachi ABB Power Grids High Voltage Direct Current (HVDC) Transmission Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 46. Hitachi ABB Power Grids Business Overview

Table 47. Hitachi ABB Power Grids High Voltage Direct Current (HVDC) Transmission SWOT Analysis

Table 48. Hitachi ABB Power Grids Recent Developments

Table 49. Siemens High Voltage Direct Current (HVDC) Transmission Basic Information

Table 50. Siemens High Voltage Direct Current (HVDC) Transmission Product Overview

Table 51. Siemens High Voltage Direct Current (HVDC) Transmission Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 52. Siemens Business Overview

Table 53. Siemens High Voltage Direct Current (HVDC) Transmission SWOT Analysis

Table 54. Siemens Recent Developments

Table 55. Prysmian Group High Voltage Direct Current (HVDC) Transmission Basic Information

Table 56. Prysmian Group High Voltage Direct Current (HVDC) Transmission Product Overview

Table 57. Prysmian Group High Voltage Direct Current (HVDC) Transmission Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 58. Prysmian Group High Voltage Direct Current (HVDC) Transmission SWOT Analysis

Table 59. Prysmian Group Business Overview

Table 60. Prysmian Group Recent Developments

Table 61. XD Group High Voltage Direct Current (HVDC) Transmission Basic Information

Table 62. XD Group High Voltage Direct Current (HVDC) Transmission Product Overview

Table 63. XD Group High Voltage Direct Current (HVDC) Transmission Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 64. XD Group Business Overview

Table 65. XD Group Recent Developments

Table 66. GE Grid Solution High Voltage Direct Current (HVDC) Transmission Basic Information

Table 67. GE Grid Solution High Voltage Direct Current (HVDC) Transmission Product Overview

- Table 68. GE Grid Solution High Voltage Direct Current (HVDC) Transmission Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 69. GE Grid Solution Business Overview
- Table 70. GE Grid Solution Recent Developments
- Table 71. TBEA High Voltage Direct Current (HVDC) Transmission Basic Information
- Table 72. TBEA High Voltage Direct Current (HVDC) Transmission Product Overview
- Table 73. TBEA High Voltage Direct Current (HVDC) Transmission Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 74. TBEA Business Overview
- Table 75. TBEA Recent Developments
- Table 76. Xuji Group High Voltage Direct Current (HVDC) Transmission Basic Information
- Table 77. Xuji Group High Voltage Direct Current (HVDC) Transmission Product Overview
- Table 78. Xuji Group High Voltage Direct Current (HVDC) Transmission Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 79. Xuji Group Business Overview
- Table 80. Xuji Group Recent Developments
- Table 81. Nexans High Voltage Direct Current (HVDC) Transmission Basic Information
- Table 82. Nexans High Voltage Direct Current (HVDC) Transmission Product Overview
- Table 83. Nexans High Voltage Direct Current (HVDC) Transmission Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 84. Nexans Business Overview
- Table 85. Nexans Recent Developments
- Table 86. NKT High Voltage Direct Current (HVDC) Transmission Basic Information
- Table 87. NKT High Voltage Direct Current (HVDC) Transmission Product Overview
- Table 88. NKT High Voltage Direct Current (HVDC) Transmission Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 89. NKT Business Overview
- Table 90. NKT Recent Developments
- Table 91. Toshiba Energy Systems and Solutions High Voltage Direct Current (HVDC) Transmission Basic Information
- Table 92. Toshiba Energy Systems and Solutions High Voltage Direct Current (HVDC) Transmission Product Overview
- Table 93. Toshiba Energy Systems and Solutions High Voltage Direct Current (HVDC) Transmission Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 94. Toshiba Energy Systems and Solutions Business Overview
- Table 95. Toshiba Energy Systems and Solutions Recent Developments

Table 96. Mitsubishi Electric High Voltage Direct Current (HVDC) Transmission Basic Information

Table 97. Mitsubishi Electric High Voltage Direct Current (HVDC) Transmission Product Overview

Table 98. Mitsubishi Electric High Voltage Direct Current (HVDC) Transmission Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 99. Mitsubishi Electric Business Overview

Table 100. Mitsubishi Electric Recent Developments

Table 101. NR Electric High Voltage Direct Current (HVDC) Transmission Basic Information

Table 102. NR Electric High Voltage Direct Current (HVDC) Transmission Product Overview

Table 103. NR Electric High Voltage Direct Current (HVDC) Transmission Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 104. NR Electric Business Overview

Table 105. NR Electric Recent Developments

Table 106. Global High Voltage Direct Current (HVDC) Transmission Sales Forecast by Region (2025-2030) & (K Units)

Table 107. Global High Voltage Direct Current (HVDC) Transmission Market Size Forecast by Region (2025-2030) & (M USD)

Table 108. North America High Voltage Direct Current (HVDC) Transmission Sales Forecast by Country (2025-2030) & (K Units)

Table 109. North America High Voltage Direct Current (HVDC) Transmission Market Size Forecast by Country (2025-2030) & (M USD)

Table 110. Europe High Voltage Direct Current (HVDC) Transmission Sales Forecast by Country (2025-2030) & (K Units)

Table 111. Europe High Voltage Direct Current (HVDC) Transmission Market Size Forecast by Country (2025-2030) & (M USD)

Table 112. Asia Pacific High Voltage Direct Current (HVDC) Transmission Sales Forecast by Region (2025-2030) & (K Units)

Table 113. Asia Pacific High Voltage Direct Current (HVDC) Transmission Market Size Forecast by Region (2025-2030) & (M USD)

Table 114. South America High Voltage Direct Current (HVDC) Transmission Sales Forecast by Country (2025-2030) & (K Units)

Table 115. South America High Voltage Direct Current (HVDC) Transmission Market Size Forecast by Country (2025-2030) & (M USD)

Table 116. Middle East and Africa High Voltage Direct Current (HVDC) Transmission Consumption Forecast by Country (2025-2030) & (Units)

Table 117. Middle East and Africa High Voltage Direct Current (HVDC) Transmission

Market Size Forecast by Country (2025-2030) & (M USD)

Table 118. Global High Voltage Direct Current (HVDC) Transmission Sales Forecast by Type (2025-2030) & (K Units)

Table 119. Global High Voltage Direct Current (HVDC) Transmission Market Size Forecast by Type (2025-2030) & (M USD)

Table 120. Global High Voltage Direct Current (HVDC) Transmission Price Forecast by Type (2025-2030) & (USD/Unit)

Table 121. Global High Voltage Direct Current (HVDC) Transmission Sales (K Units) Forecast by Application (2025-2030)

Table 122. Global High Voltage Direct Current (HVDC) Transmission Market Size Forecast by Application (2025-2030) & (M USD)

## List Of Figures

### LIST OF FIGURES

- Figure 1. Product Picture of High Voltage Direct Current (HVDC) Transmission
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global High Voltage Direct Current (HVDC) Transmission Market Size (M USD), 2019-2030
- Figure 5. Global High Voltage Direct Current (HVDC) Transmission Market Size (M USD) (2019-2030)
- Figure 6. Global High Voltage Direct Current (HVDC) Transmission Sales (K Units) & (2019-2030)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. High Voltage Direct Current (HVDC) Transmission Market Size by Country (M USD)
- Figure 11. High Voltage Direct Current (HVDC) Transmission Sales Share by Manufacturers in 2023
- Figure 12. Global High Voltage Direct Current (HVDC) Transmission Revenue Share by Manufacturers in 2023
- Figure 13. High Voltage Direct Current (HVDC) Transmission Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2023
- Figure 14. Global Market High Voltage Direct Current (HVDC) Transmission Average Price (USD/Unit) of Key Manufacturers in 2023
- Figure 15. The Global 5 and 10 Largest Players: Market Share by High Voltage Direct Current (HVDC) Transmission Revenue in 2023
- Figure 16. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 17. Global High Voltage Direct Current (HVDC) Transmission Market Share by Type
- Figure 18. Sales Market Share of High Voltage Direct Current (HVDC) Transmission by Type (2019-2024)
- Figure 19. Sales Market Share of High Voltage Direct Current (HVDC) Transmission by Type in 2023
- Figure 20. Market Size Share of High Voltage Direct Current (HVDC) Transmission by Type (2019-2024)
- Figure 21. Market Size Market Share of High Voltage Direct Current (HVDC) Transmission by Type in 2023

Figure 22. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 23. Global High Voltage Direct Current (HVDC) Transmission Market Share by Application

Figure 24. Global High Voltage Direct Current (HVDC) Transmission Sales Market Share by Application (2019-2024)

Figure 25. Global High Voltage Direct Current (HVDC) Transmission Sales Market Share by Application in 2023

Figure 26. Global High Voltage Direct Current (HVDC) Transmission Market Share by Application (2019-2024)

Figure 27. Global High Voltage Direct Current (HVDC) Transmission Market Share by Application in 2023

Figure 28. Global High Voltage Direct Current (HVDC) Transmission Sales Growth Rate by Application (2019-2024)

Figure 29. Global High Voltage Direct Current (HVDC) Transmission Sales Market Share by Region (2019-2024)

Figure 30. North America High Voltage Direct Current (HVDC) Transmission Sales and Growth Rate (2019-2024) & (K Units)

Figure 31. North America High Voltage Direct Current (HVDC) Transmission Sales Market Share by Country in 2023

Figure 32. U.S. High Voltage Direct Current (HVDC) Transmission Sales and Growth Rate (2019-2024) & (K Units)

Figure 33. Canada High Voltage Direct Current (HVDC) Transmission Sales (K Units) and Growth Rate (2019-2024)

Figure 34. Mexico High Voltage Direct Current (HVDC) Transmission Sales (Units) and Growth Rate (2019-2024)

Figure 35. Europe High Voltage Direct Current (HVDC) Transmission Sales and Growth Rate (2019-2024) & (K Units)

Figure 36. Europe High Voltage Direct Current (HVDC) Transmission Sales Market Share by Country in 2023

Figure 37. Germany High Voltage Direct Current (HVDC) Transmission Sales and Growth Rate (2019-2024) & (K Units)

Figure 38. France High Voltage Direct Current (HVDC) Transmission Sales and Growth Rate (2019-2024) & (K Units)

Figure 39. U.K. High Voltage Direct Current (HVDC) Transmission Sales and Growth Rate (2019-2024) & (K Units)

Figure 40. Italy High Voltage Direct Current (HVDC) Transmission Sales and Growth Rate (2019-2024) & (K Units)

Figure 41. Russia High Voltage Direct Current (HVDC) Transmission Sales and Growth Rate (2019-2024) & (K Units)

Figure 42. Asia Pacific High Voltage Direct Current (HVDC) Transmission Sales and Growth Rate (K Units)

Figure 43. Asia Pacific High Voltage Direct Current (HVDC) Transmission Sales Market Share by Region in 2023

Figure 44. China High Voltage Direct Current (HVDC) Transmission Sales and Growth Rate (2019-2024) & (K Units)

Figure 45. Japan High Voltage Direct Current (HVDC) Transmission Sales and Growth Rate (2019-2024) & (K Units)

Figure 46. South Korea High Voltage Direct Current (HVDC) Transmission Sales and Growth Rate (2019-2024) & (K Units)

Figure 47. India High Voltage Direct Current (HVDC) Transmission Sales and Growth Rate (2019-2024) & (K Units)

Figure 48. Southeast Asia High Voltage Direct Current (HVDC) Transmission Sales and Growth Rate (2019-2024) & (K Units)

Figure 49. South America High Voltage Direct Current (HVDC) Transmission Sales and Growth Rate (K Units)

Figure 50. South America High Voltage Direct Current (HVDC) Transmission Sales Market Share by Country in 2023

Figure 51. Brazil High Voltage Direct Current (HVDC) Transmission Sales and Growth Rate (2019-2024) & (K Units)

Figure 52. Argentina High Voltage Direct Current (HVDC) Transmission Sales and Growth Rate (2019-2024) & (K Units)

Figure 53. Columbia High Voltage Direct Current (HVDC) Transmission Sales and Growth Rate (2019-2024) & (K Units)

Figure 54. Middle East and Africa High Voltage Direct Current (HVDC) Transmission Sales and Growth Rate (K Units)

Figure 55. Middle East and Africa High Voltage Direct Current (HVDC) Transmission Sales Market Share by Region in 2023

Figure 56. Saudi Arabia High Voltage Direct Current (HVDC) Transmission Sales and Growth Rate (2019-2024) & (K Units)

Figure 57. UAE High Voltage Direct Current (HVDC) Transmission Sales and Growth Rate (2019-2024) & (K Units)

Figure 58. Egypt High Voltage Direct Current (HVDC) Transmission Sales and Growth Rate (2019-2024) & (K Units)

Figure 59. Nigeria High Voltage Direct Current (HVDC) Transmission Sales and Growth Rate (2019-2024) & (K Units)

Figure 60. South Africa High Voltage Direct Current (HVDC) Transmission Sales and Growth Rate (2019-2024) & (K Units)

Figure 61. Global High Voltage Direct Current (HVDC) Transmission Sales Forecast by

Volume (2019-2030) & (K Units)

Figure 62. Global High Voltage Direct Current (HVDC) Transmission Market Size Forecast by Value (2019-2030) & (M USD)

Figure 63. Global High Voltage Direct Current (HVDC) Transmission Sales Market Share Forecast by Type (2025-2030)

Figure 64. Global High Voltage Direct Current (HVDC) Transmission Market Share Forecast by Type (2025-2030)

Figure 65. Global High Voltage Direct Current (HVDC) Transmission Sales Forecast by Application (2025-2030)

Figure 66. Global High Voltage Direct Current (HVDC) Transmission Market Share Forecast by Application (2025-2030)



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