

Global High-Voltage Direct Current (HVDC) Transmission Systems Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/G18DEC5D52E5EN.html>

Date: July 2024

Pages: 123

Price: US\$ 3,480.00 (Single User License)

ID: G18DEC5D52E5EN

Abstracts

According to our (Global Info Research) latest study, the global High-Voltage Direct Current (HVDC) Transmission Systems market size was valued at USD 9179.3 million in 2023 and is forecast to a readjusted size of USD 11580 million by 2030 with a CAGR of 3.4% during review period.

HVDC Transmission System 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 65 Hz. This improves the stability and economy of each grid, by allowing exchange of power between incompatible networks.

Global HVDC transmission system key players include ABB, Siemens, XD Group, NR Electric, GE Grid Solution, etc. Global top 5 manufacturers hold a share about 57%. China is the largest market, with a share about 46%, followed by Europe, with a share about 22 percent.

The Global Info Research report includes an overview of the development of the High-

Voltage Direct Current (HVDC) Transmission Systems industry chain, the market status of Submarine HVDC Transmission System (Cables, Converters), Overhead HVDC Transmission System (Cables, Converters), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of High-Voltage Direct Current (HVDC) Transmission Systems.

Regionally, the report analyzes the High-Voltage Direct Current (HVDC) Transmission Systems markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global High-Voltage Direct Current (HVDC) Transmission Systems market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the High-Voltage Direct Current (HVDC) Transmission Systems market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the High-Voltage Direct Current (HVDC) Transmission Systems industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Cables, Converters).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the High-Voltage Direct Current (HVDC) Transmission Systems market.

Regional Analysis: The report involves examining the High-Voltage Direct Current (HVDC) Transmission Systems market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the High-Voltage Direct Current (HVDC) Transmission Systems market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to High-Voltage Direct Current (HVDC) Transmission Systems:

Company Analysis: Report covers individual High-Voltage Direct Current (HVDC) Transmission Systems manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards High-Voltage Direct Current (HVDC) Transmission Systems. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Submarine HVDC Transmission System, Overhead HVDC Transmission System).

Technology Analysis: Report covers specific technologies relevant to High-Voltage Direct Current (HVDC) Transmission Systems. It assesses the current state, advancements, and potential future developments in High-Voltage Direct Current (HVDC) Transmission Systems areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the High-Voltage Direct Current (HVDC) Transmission Systems market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

High-Voltage Direct Current (HVDC) Transmission Systems market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Cables

Converters

Harmonics and Filtering

Converter Transformers

Market segment by Application

Submarine HVDC Transmission System

Overhead HVDC Transmission System

Underground HVDC Transmission System

Major players covered

ABB

Siemens

Schneider Electric

GE

Alstom

State Grid Corporation of China

LS Industrial Systems

Cisco Systems

Doble Engineering

NKT Cables

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 High-Voltage Direct Current (HVDC) Transmission Systems product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of High-Voltage Direct Current (HVDC) Transmission Systems, with price, sales, revenue and global market share of High-Voltage Direct Current (HVDC) Transmission Systems from 2019 to 2024.

Chapter 3, the High-Voltage Direct Current (HVDC) Transmission Systems competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the High-Voltage Direct Current (HVDC) Transmission Systems breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and High-Voltage Direct Current (HVDC) Transmission Systems market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 High-Voltage Direct Current (HVDC) Transmission Systems.

Chapter 14 and 15, to describe High-Voltage Direct Current (HVDC) Transmission Systems sales channel, distributors, customers, research findings and conclusion.

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