

Global High Voltage Direct Current Electric Power Transmission System Market 2024 by Company, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global High Voltage Direct Current Electric Power Transmission System market size was valued at USD 10050 million in 2023 and is forecast to a readjusted size of USD 15730 million by 2030 with a CAGR of 6.6% during review period.

High Voltage Direct Current Electric Power 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 60 Hz. This improves the stability and economy of each grid, by allowing exchange of power between incompatible networks.

The key service providers of the High Voltage Direct Current Electric Power Transmission System in the world are Hitachi Energy, Siemens, Prysmian Group, XD Group, GE Grid Solution, TBEA, Xuji Group and Nexans, among which the top three service providers account for more than 50% of the market share, and Hitachi Energy is

the largest service provider. The global high voltage direct current electric power transmission system services are mainly distributed in North America, Europe, China and Japan, among which the market share of the top three regions is close to 90%. At present, China is the largest service provider region, followed by Europe. In terms of its service type, the growth rate of systems with voltage above 800KV is relatively fast. At present, the market share of systems with voltage less than 400KV is the highest, more than 50%, followed by systems with voltage between 400KV and 800KV. In terms of its application, overhead transmission is the largest application field, with a market share of more than 70%, followed by subsea transmission and underground transmission.

The Global Info Research report includes an overview of the development of the High Voltage Direct Current Electric Power Transmission System industry chain, the market status of Subsea Transmission (Less than 400 KV, 400-800 KV), Underground Transmission (Less than 400 KV, 400-800 KV), 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 Electric Power Transmission System.

Regionally, the report analyzes the High Voltage Direct Current Electric Power Transmission System 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 Electric Power Transmission System 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 Electric Power Transmission System 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 Electric Power Transmission System 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 revenue generated, and market share of different by Type (e.g., Less than 400 KV, 400-800 KV).

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 Electric Power Transmission System market.

Regional Analysis: The report involves examining the High Voltage Direct Current Electric Power Transmission System 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 Electric Power Transmission System 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 Electric Power Transmission System:

Company Analysis: Report covers individual High Voltage Direct Current Electric Power Transmission System players, 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 Electric Power Transmission System This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Subsea Transmission, Underground Transmission).

Technology Analysis: Report covers specific technologies relevant to High Voltage Direct Current Electric Power Transmission System. It assesses the current state, advancements, and potential future developments in High Voltage Direct Current Electric Power Transmission System areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the High Voltage Direct Current Electric Power Transmission System 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 Electric Power Transmission System 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 value.

Market segment by Type

Less than 400 KV

400-800 KV

Above 800 KV

Market segment by Application

Subsea Transmission

Underground Transmission

Overhead Transmission

Market segment by players, this report covers

Hitachi Energy

Siemens

Prysmian Group

XD Group

GE Grid Solution

TBEA

Xuji Group

Nexans

NKT

Toshiba Energy Systems & Solutions

Mitsubishi Electric

NR Electric

Market segment by regions, regional analysis covers

North America (United States, Canada, and Mexico)

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

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

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

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe High Voltage Direct Current Electric Power Transmission System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of High Voltage Direct Current Electric Power Transmission System, with revenue, gross margin and global market share of High

Voltage Direct Current Electric Power Transmission System from 2019 to 2024.

Chapter 3, the High Voltage Direct Current Electric Power Transmission System competitive situation, revenue and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and application, with consumption value and growth rate by Type, application, from 2019 to 2030.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2019 to 2024. and High Voltage Direct Current Electric Power Transmission System market forecast, by regions, type and application, with consumption value, from 2025 to 2030.

Chapter 11, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of High Voltage Direct Current Electric Power Transmission System.

Chapter 13, to describe High Voltage Direct Current Electric Power Transmission System research findings and conclusion.

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