

# Global High Voltage Direct Current (HVDC) Transmission 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 (HVDC) Transmission market size was valued at USD 9370.1 million in 2023 and is forecast to a readjusted size of USD 14820 million by 2030 with a CAGR of 6.8% during review period.

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.

Global key players of high voltage direct current (HVDC) transmission include Hitachi ABB Power Grids, Siemens, Prysmian Group, XD Group and GE Grid Solution, etc. Top 2 players occupy for a share about 45%. Asia-Pacific is the largest market, with a share about 62%, followed by North America and Europe. In terms of product, less than 400

KV is the largest segment, with a share over 56%. In terms of application, overhead transmission is the largest market, with a share over 74%.

The Global Info Research report includes an overview of the development of the High Voltage Direct Current (HVDC) Transmission industry chain, the market status of Overhead 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 (HVDC) Transmission.

Regionally, the report analyzes the High Voltage Direct Current (HVDC) Transmission 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 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 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 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 (HVDC) Transmission market.

**Regional Analysis:** The report involves examining the High Voltage Direct Current (HVDC) Transmission 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 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:

**Company Analysis:** Report covers individual High Voltage Direct Current (HVDC) Transmission 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 (HVDC) Transmission. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Overhead Transmission, Underground Transmission).

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

Overhead Transmission

Underground Transmission

Subsea Transmission

#### Market segment by players, this report covers

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 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 (HVDC) Transmission product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of High Voltage Direct Current (HVDC) Transmission, with revenue, gross margin and global market share of High Voltage Direct Current (HVDC) Transmission from 2019 to 2024.

Chapter 3, the High Voltage Direct Current (HVDC) Transmission 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 (HVDC) Transmission 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 (HVDC) Transmission.

Chapter 13, to describe High Voltage Direct Current (HVDC) Transmission research findings and conclusion.

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