

Global High Voltage Direct Current Electric Power Transmission System Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global High Voltage Direct Current Electric Power Transmission System market size is expected to reach \$ 15730 million by 2029, rising at a market growth of 6.6% CAGR during the forecast period (2023-2029).

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.

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.

This report studies the global High Voltage Direct Current Electric Power Transmission System demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for High Voltage Direct Current Electric Power Transmission System, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of High Voltage Direct Current Electric Power Transmission System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global High Voltage Direct Current Electric Power Transmission System total market, 2018-2029, (USD Million)

Global High Voltage Direct Current Electric Power Transmission System total market by region & country, CAGR, 2018-2029, (USD Million)

U.S. VS China: High Voltage Direct Current Electric Power Transmission System total market, key domestic companies and share, (USD Million)

Global High Voltage Direct Current Electric Power Transmission System revenue by player and market share 2018-2023, (USD Million)

Global High Voltage Direct Current Electric Power Transmission System total market by Type, CAGR, 2018-2029, (USD Million)

Global High Voltage Direct Current Electric Power Transmission System total market by Application, CAGR, 2018-2029, (USD Million)

This reports profiles major players in the global High Voltage Direct Current Electric Power Transmission System market based on the following parameters – company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Hitachi Energy, Siemens, Prysmian Group, XD Group, GE Grid Solution, TBEA, Xuji Group, Nexans and NKT, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World High Voltage Direct Current Electric Power Transmission System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global High Voltage Direct Current Electric Power Transmission System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High Voltage Direct Current Electric Power Transmission System Market, Segmentation by Type

Less than 400 KV

400-800 KV

Above 800 KV

Global High Voltage Direct Current Electric Power Transmission System Market, Segmentation by Application

Subsea Transmission

Underground Transmission

Overhead Transmission

Companies Profiled:

Hitachi Energy

Siemens

Prysmian Group

XD Group

GE Grid Solution

TBEA

Xuji Group

Nexans

NKT

Toshiba Energy Systems & Solutions

Mitsubishi Electric

NR Electric

Key Questions Answered

1. How big is the global High Voltage Direct Current Electric Power Transmission System market?
2. What is the demand of the global High Voltage Direct Current Electric Power Transmission System market?
3. What is the year over year growth of the global High Voltage Direct Current Electric Power Transmission System market?
4. What is the total value of the global High Voltage Direct Current Electric Power Transmission System market?
5. Who are the major players in the global High Voltage Direct Current Electric Power Transmission System market?
6. What are the growth factors driving the market demand?

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