

Global HVDC Transmission System Market Growth (Status and Outlook) 2025-2031

<https://marketpublishers.com/r/G72CF79655B7EN.html>

Date: March 2025

Pages: 116

Price: US\$ 3,660.00 (Single User License)

ID: G72CF79655B7EN

Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

The global HVDC Transmission System market size is predicted to grow from US\$ 10550 million in 2025 to US\$ 15890 million in 2031; it is expected to grow at a CAGR of 7.1% from 2025 to 2031.

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 60 Hz. This improves the stability and economy of each grid, by allowing exchange of power between incompatible networks.

The competition among vendors will increase during the forecast period. Vendors will compete to deliver competitive advantages in the market on the basis of pricing, user-friendly interfaces, value-added benefits, and service portfolios. During the forecast period, we expect this competition to intensify with an increase in product extensions.

Technological innovations have an important role in driving the growth of the market. To

sustain in the competitive market, vendors should develop new ideas and technologies and stay up-to-date with the advanced technologies.

The HVDC transmission market in APAC is presently witnessing an exponential growth in terms of power consumption. The development of power infrastructure in this region offers many growth opportunities for market players. China is investing heavily in renewable energy and implementing latest UHVDC technology for power transmission.

The interconnection of HVDC and therefore the AC grid has toughened the reliability and capacity of power grids. Growing electricity consumption is one of the first factors driving the worldwide HVDC Transmission Market.

Electricity transmission through such lines leads to much lower transmission losses owing to high voltage during transmission and therefore the nature of direct current, and hence the adoption of high voltage direct current (HVDC) transmission is increasing significantly. The need for lesser space for the towers carrying HVDC transmission lines is additionally one of the key factors driving the global HVDC Transmission Market.

Increase in installation of offshore wind power generation projects is anticipated to drive the HVDC transmission systems market. Large amount of power generation is feasible through offshore wind energy; therefore, the generated energy can be distributed to locations with high demand for electricity.

LPI (LP Information)' newest research report, the "HVDC Transmission System Industry Forecast" looks at past sales and reviews total world HVDC Transmission System sales in 2024, providing a comprehensive analysis by region and market sector of projected HVDC Transmission System sales for 2025 through 2031. With HVDC Transmission System sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world HVDC Transmission System industry.

This Insight Report provides a comprehensive analysis of the global HVDC Transmission System landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on HVDC Transmission System portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global HVDC Transmission System market.

This Insight Report evaluates the key market trends, drivers, and affecting factors

shaping the global outlook for HVDC Transmission System and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global HVDC Transmission System.

This report presents a comprehensive overview, market shares, and growth opportunities of HVDC Transmission System market by product type, application, key players and key regions and countries.

Segmentation by Type:

Below 400 kV

Between 400-800 kV

Above 800 kV

Segmentation by Application:

Overhead Transmission

Underground Transmission

Subsea Transmission

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

ABB

Siemens

XD

NR Electric

GE Grid Solution

NKT

TBEA

XJ Group Corporation

Hitachi ABB Power Grids

Nexans

Toshiba

Mitsubishi Electric

Abengoa

Prysmian Group

China XD Group

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