

Global HVDC Transmission System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global HVDC Transmission System market size is expected to reach \$ 17320 million by 2032, rising at a market growth of 6.6% CAGR during the forecast period (2026-2032).

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.

This report studies the global HVDC Transmission System demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for HVDC Transmission System, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of HVDC Transmission System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global HVDC Transmission System total market, 2021-2032, (USD Million)

Global HVDC Transmission System total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: HVDC Transmission System total market, key domestic companies, and share, (USD Million)

Global HVDC Transmission System revenue by player, revenue and market share 2021-2026, (USD Million)

Global HVDC Transmission System total market by Type, CAGR, 2021-2032, (USD Million)

Global HVDC Transmission System total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global HVDC 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 ABB, Siemens, XD, NR Electric, GE Grid Solution, NKT, TBEA, XJ Group Corporation, Hitachi ABB Power Grids, Nexans, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world HVDC 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 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global HVDC Transmission System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global HVDC Transmission System Market, Segmentation by Type:

Below 400 kV

Between 400-800 kV

Above 800 kV

Global HVDC Transmission System Market, Segmentation by Application:

Overhead Transmission

Underground Transmission

Subsea Transmission

Companies Profiled:

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

Key Questions Answered

1. How big is the global HVDC Transmission System market?
2. What is the demand of the global HVDC Transmission System market?
3. What is the year over year growth of the global HVDC Transmission System market?
4. What is the total value of the global HVDC Transmission System market?
5. Who are the Major Players in the global HVDC Transmission System market?
6. What are the growth factors driving the market demand?

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