

Global High Voltage Direct Current (HVDC) Transmission Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global High Voltage Direct Current (HVDC) Transmission market size will reach 12,123 Million USD in 2025 and is projected to reach 19,366 Million USD by 2032, with a CAGR of 6.92% (2025-2032). Notably, the China High Voltage Direct Current (HVDC) Transmission market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

High Voltage Direct Current (HVDC) Transmission is an advanced technology for efficiently transmitting electrical power over long distances using direct current (DC) at high voltage levels. In contrast to traditional alternating current (AC) transmission, HVDC offers several advantages, including lower energy losses over extended distances, the ability to connect asynchronous power grids, and increased control over power flow. HVDC systems typically involve converting AC power from a generating station into DC for transmission, and then reconverting it to AC at the receiving end. This technology is particularly advantageous for connecting remote renewable energy sources, such as offshore wind farms, to distant load centers. HVDC transmission systems, comprising converters, transformers, and high-voltage DC cables, play a crucial role in modern power grids, enhancing overall efficiency, stability, and the integration of renewable energy into the electricity infrastructure.

The major global suppliers of High Voltage Direct Current (HVDC) Transmission include

Hitachi ABB Power Grids, Siemens, Prysmian Group, XD Group, GE Grid Solution, TBEA, Xuji Group, Nexans, NKT, Mitsubishi Electric, Toshiba Energy Systems & Solutions, NR Electric, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of High Voltage Direct Current (HVDC) Transmission. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major suppliers, as well as the market status and trends of different product types and applications in the global High Voltage Direct Current (HVDC) Transmission market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the High Voltage Direct Current (HVDC) Transmission market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of High Voltage Direct Current (HVDC) Transmission industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Suppliers of High Voltage Direct Current (HVDC) Transmission Include:

Hitachi ABB Power Grids

Siemens

Prysmian Group

XD Group

GE Grid Solution

TBEA

Xuji Group

Nexans

NKT

Mitsubishi Electric

Toshiba Energy Systems & Solutions

NR Electric

High Voltage Direct Current (HVDC) Transmission Product Segment Include:

Less than 400 KV

400-800 KV

Above 800 KV

High Voltage Direct Current (HVDC) Transmission Product Application Include:

Overhead Transmission

Underground Transmission

Subsea Transmission

Chapter Scope

Chapter 1: Product Research Range, Product Types and Applications, Market Overview, Market Situation and Trends

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