

Global HVDC Transmission System Market Size, Manufacturers, Growth Analysis Industry Forecast to 2030

<https://marketpublishers.com/r/G5CBDEAE9BDBEN.html>

Date: April 2024

Pages: 196

Price: US\$ 4,250.00 (Single User License)

ID: G5CBDEAE9BDBEN

Abstracts

Summary

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.

According to APO Research, The global HVDC Transmission System market is projected to grow from US\$ million in 2024 to US\$ million by 2030, at a Compound Annual Growth Rate (CAGR) of % during the forecast period.

North American market for HVDC Transmission System is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

Asia-Pacific market for HVDC Transmission System is estimated to increase from \$

million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

The China market for HVDC Transmission System is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

Europe market for HVDC Transmission System is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

The major global companies of HVDC Transmission System include ABB, Siemens, XD, NR Electric, GE Grid Solution, NKT, TBEA, XJ Group Corporation and Hitachi ABB Power Grids, etc. In 2023, the world's top three vendors accounted for approximately % of the revenue.

This report presents an overview of global market for HVDC Transmission System, revenue and gross margin. Analyses of the global market trends, with historic market revenue for 2019 - 2023, estimates for 2024, and projections of CAGR through 2030.

This report researches the key producers of HVDC Transmission System, also provides the value of main regions and countries. Of the upcoming market potential for HVDC Transmission System, and key regions or countries of focus to forecast this market into various segments and sub-segments. Country specific data and market value analysis for the U.S., Canada, Mexico, Brazil, China, Japan, South Korea, Southeast Asia, India, Germany, the U.K., Italy, Middle East, Africa, and Other Countries.

This report focuses on the HVDC Transmission System revenue, market share and industry ranking of main companies, data from 2019 to 2024. Identification of the major stakeholders in the global HVDC Transmission System market, and analysis of their competitive landscape and market positioning based on recent developments and segmental revenues. This report will help stakeholders to understand the competitive landscape and gain more insights and position their businesses and market strategies in a better way.

All companies have demonstrated varying levels of sales growth and profitability over the past six years, while some companies have experienced consistent growth, others have shown fluctuations in performance. The overall trend suggests a positive outlook for the global HVDC Transmission System company landscape, with companies

adapting to market dynamics and maintaining profitability amidst changing conditions.

HVDC Transmission System segment by Company

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

HVDC Transmission System segment by Type

Below 400 kV

Between 400-800 kV

Above 800 kV

HVDC Transmission System segment by Application

Overhead Transmission

Underground Transmission

Subsea Transmission

HVDC Transmission System segment by Region

North America

U.S.

Canada

Europe

Germany

France

U.K.

Italy

Russia

Asia-Pacific

China

Japan

South Korea

India

Australia

China Taiwan

Indonesia

Thailand

Malaysia

Latin America

Mexico

Brazil

Argentina

Middle East & Africa

Turkey

Saudi Arabia

UAE

Study Objectives

1. To analyze and research the global HVDC Transmission System status and future forecast, involving, revenue, growth rate (CAGR), market share, historical and forecast.
2. To present the HVDC Transmission System key companies, revenue, market share, and recent developments.

3. To split the HVDC Transmission System breakdown data by regions, type, companies, and application.
4. To analyze the global and key regions HVDC Transmission System market potential and advantage, opportunity and challenge, restraints, and risks.
5. To identify HVDC Transmission System significant trends, drivers, influence factors in global and regions.
6. To analyze HVDC Transmission System competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

Reasons to Buy This Report

1. This report will help the readers to understand the competition within the industries and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global HVDC Transmission System market, and introduces in detail the market share, industry ranking, competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.
2. This report will help stakeholders to understand the global industry status and trends of HVDC Transmission System and provides them with information on key market drivers, restraints, challenges, and opportunities.
3. This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape section includes the market share and rank (in sales and value), competitor ecosystem, new product development, expansion, and acquisition.
4. This report stays updated with novel technology integration, features, and the latest developments in the market.
5. This report helps stakeholders to gain insights into which regions to target globally.
6. This report helps stakeholders to gain insights into the end-user perception concerning the adoption of HVDC Transmission System.

7. This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.

Chapter Outline

Chapter 1: Introduces the report scope of the report, global total market size.

Chapter 2: Analysis key trends, drivers, challenges, and opportunities within the global HVDC Transmission System industry.

Chapter 3: Detailed analysis of HVDC Transmission System company competitive landscape, revenue market share, latest development plan, merger, and acquisition information, etc.

Chapter 4: Provides the analysis of various market segments by type, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 5: Provides the analysis of various market segments by application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 6: Sales value of HVDC Transmission System in regional level. It provides a quantitative analysis of the market size and development potential of each region and introduces the market development, future development prospects, market space, and market size of key country in the world.

Chapter 7: Sales value of HVDC Transmission System in country level. It provides sigmate data by type, and by application for each country/region.

Chapter 8: Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including revenue, gross margin, product introduction, recent development, etc.

Chapter 9: Concluding Insights.

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