

Global High-Voltage Direct Current (HVDC) Transmission Systems Market Growth 2024-2030

<https://marketpublishers.com/r/GA9287A208CEN.html>

Date: March 2024

Pages: 112

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

ID: GA9287A208CEN

Abstracts

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

According to our LPI (LP Information) latest study, the global High-Voltage Direct Current (HVDC) Transmission Systems market size was valued at US\$ 8727 million in 2023. With growing demand in downstream market, the High-Voltage Direct Current (HVDC) Transmission Systems is forecast to a readjusted size of US\$ 11220 million by 2030 with a CAGR of 3.7% during review period.

The research report highlights the growth potential of the global High-Voltage Direct Current (HVDC) Transmission Systems market. High-Voltage Direct Current (HVDC) Transmission Systems are expected to show stable growth in the future market. However, product differentiation, reducing costs, and supply chain optimization remain crucial for the widespread adoption of High-Voltage Direct Current (HVDC) Transmission Systems. Market players need to invest in research and development, forge strategic partnerships, and align their offerings with evolving consumer preferences to capitalize on the immense opportunities presented by the High-Voltage Direct Current (HVDC) Transmission Systems market.

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

Global HVDC transmission system key players include ABB, Siemens, XD Group, NR Electric, GE Grid Solution, etc. Global top 5 manufacturers hold a share about 57%. China is the largest market, with a share about 46%, followed by Europe, with a share about 22 percent.

Key Features:

The report on High-Voltage Direct Current (HVDC) Transmission Systems market reflects various aspects and provide valuable insights into the industry.

Market Size and Growth: The research report provide an overview of the current size and growth of the High-Voltage Direct Current (HVDC) Transmission Systems market. It may include historical data, market segmentation by Type (e.g., Cables, Converters), and regional breakdowns.

Market Drivers and Challenges: The report can identify and analyse the factors driving the growth of the High-Voltage Direct Current (HVDC) Transmission Systems market, such as government regulations, environmental concerns, technological advancements, and changing consumer preferences. It can also highlight the challenges faced by the industry, including infrastructure limitations, range anxiety, and high upfront costs.

Competitive Landscape: The research report provides analysis of the competitive landscape within the High-Voltage Direct Current (HVDC) Transmission Systems market. It includes profiles of key players, their market share, strategies, and product offerings. The report can also highlight emerging players and their potential impact on the market.

Technological Developments: The research report can delve into the latest technological developments in the High-Voltage Direct Current (HVDC) Transmission Systems industry. This include advancements in High-Voltage Direct Current (HVDC) Transmission Systems technology, High-Voltage Direct Current (HVDC) Transmission Systems new entrants, High-Voltage Direct Current (HVDC) Transmission Systems new investment, and other innovations that are shaping the future of High-Voltage Direct

Current (HVDC) Transmission Systems.

Downstream Procumbent Preference: The report can shed light on customer procumbent behaviour and adoption trends in the High-Voltage Direct Current (HVDC) Transmission Systems market. It includes factors influencing customer ' purchasing decisions, preferences for High-Voltage Direct Current (HVDC) Transmission Systems product.

Government Policies and Incentives: The research report analyse the impact of government policies and incentives on the High-Voltage Direct Current (HVDC) Transmission Systems market. This may include an assessment of regulatory frameworks, subsidies, tax incentives, and other measures aimed at promoting High-Voltage Direct Current (HVDC) Transmission Systems market. The report also evaluates the effectiveness of these policies in driving market growth.

Environmental Impact and Sustainability: The research report assess the environmental impact and sustainability aspects of the High-Voltage Direct Current (HVDC) Transmission Systems market.

Market Forecasts and Future Outlook: Based on the analysis conducted, the research report provide market forecasts and outlook for the High-Voltage Direct Current (HVDC) Transmission Systems industry. This includes projections of market size, growth rates, regional trends, and predictions on technological advancements and policy developments.

Recommendations and Opportunities: The report conclude with recommendations for industry stakeholders, policymakers, and investors. It highlights potential opportunities for market players to capitalize on emerging trends, overcome challenges, and contribute to the growth and development of the High-Voltage Direct Current (HVDC) Transmission Systems market.

Market Segmentation:

High-Voltage Direct Current (HVDC) Transmission Systems market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Segmentation by type

Cables

Converters

Harmonics and Filtering

Converter Transformers

Segmentation by application

Submarine HVDC Transmission System

Overhead HVDC Transmission System

Underground HVDC Transmission System

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

Schneider Electric

GE

Alstom

State Grid Corporation of China

LS Industrial Systems

Cisco Systems

Doble Engineering

NKT Cables

Key Questions Addressed in this Report

What is the 10-year outlook for the global High-Voltage Direct Current (HVDC) Transmission Systems market?

What factors are driving High-Voltage Direct Current (HVDC) Transmission Systems market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do High-Voltage Direct Current (HVDC) Transmission Systems market opportunities vary by end market size?

How does High-Voltage Direct Current (HVDC) Transmission Systems break out type, application?

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