

Global HVDC Converter Station Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global HVDC Converter Station market size was valued at USD 9142.7 million in 2023 and is forecast to a readjusted size of USD 13770 million by 2030 with a CAGR of 6.0% during review period.

An HVDC converter station (or simply converter station) is a specialised type of substation which forms the terminal equipment for a high-voltage direct current (HVDC) transmission line. It converts direct current to alternating current or the reverse.

Global HVDC Converter Station key players include ABB, Siemens, GE & Alstom Energy, BHEL, Orano etc. Global top five manufacturers hold a share over 80%.

Europe is the largest market, with a share over 40%, followed by North America and Japan, both have a share over 30% percent.

In terms of product, 1001MW-2000MW is the largest segment, with a share over 15%. And in terms of application, the largest application is Interconnecting Networks followed by Underground Power links.

The Global Info Research report includes an overview of the development of the HVDC Converter Station industry chain, the market status of Underground Power links (0-500MW, 501MW-999MW), Powering Island and Remote Loads (0-500MW, 501MW-999MW), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of HVDC Converter Station.

Regionally, the report analyzes the HVDC Converter Station markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global HVDC Converter Station market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the HVDC Converter Station market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the HVDC Converter Station industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., 0-500MW, 501MW-999MW).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the HVDC Converter Station market.

Regional Analysis: The report involves examining the HVDC Converter Station market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the HVDC Converter Station market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to HVDC Converter Station:

Company Analysis: Report covers individual HVDC Converter Station manufacturers, suppliers, and other relevant industry players. This analysis includes studying their

financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards HVDC Converter Station. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Underground Power links, Powering Island and Remote Loads).

Technology Analysis: Report covers specific technologies relevant to HVDC Converter Station. It assesses the current state, advancements, and potential future developments in HVDC Converter Station areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the HVDC Converter Station market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

HVDC Converter Station 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.

Market segment by Type

0-500MW

501MW-999MW

1000MW-2000MW

2000+ MW

Market segment by Application

Underground Power links

Powering Island and Remote Loads

Connecting Wind Farms

Interconnecting Networks

Oil & Gas Platforms

Major players covered

ABB

Siemens

GE & Alstom Energy

BHEL

Orano

Hitachi

Toshiba

Mitsubishi

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe HVDC Converter Station product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of HVDC Converter Station, with price, sales, revenue and global market share of HVDC Converter Station from 2019 to 2024.

Chapter 3, the HVDC Converter Station competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the HVDC Converter Station breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and HVDC Converter Station market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of HVDC Converter Station.

Chapter 14 and 15, to describe HVDC Converter Station sales channel, distributors, customers, research findings and conclusion.

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