

# Key Drivers of the 2024 HVDC Converter Stations Market: The Rise of Renewable Energy Surge

*The Business Research Company's HVDC Converter Stations Global Market Report 2024 - Market Size, Trends, And Global Forecast 2024-2033*

LONDON, GREATER LONDON, UNITED KINGDOM, November 8, 2024

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HVDC Converter Stations Global Market Report 2024 - Market Size, Trends, And Global Forecast 2024-2033

The HVDC converter stations market has experienced significant growth in recent years, projected to rise from \$12.28 billion in 2023 to \$13.39 billion in 2024, reflecting a compound

annual growth rate (CAGR) of 9.0%. This historical growth can be attributed to factors such as the need for long-distance power transmission, increasing urbanization and power demand, cross-border power transmission initiatives, government policies, and the pursuit of grid stability and reliability.

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*The Business Research Company*

What Is the Future Market Size of the [Global HVDC converter stations Market and Its Yearly Growth Rate?](#)

The HVDC converter stations market is projected to experience strong growth in the coming years, with an expected increase to \$18.23 billion by 2028 at a compound annual growth rate (CAGR) of 8.0%. This growth during the

forecast period is driven by trends in global electrification, improved grid resilience, integration of smart grid technologies, carbon neutrality objectives, and the interconnection of power networks.

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What Are the Main Factors Driving HVDC converter stations Market Expansion?

The expansion of the renewable energy sector is anticipated to drive the growth of the HVDC converter stations market in the future. Renewable energy is generated from natural sources that replenish more quickly than they are consumed. HVDC converters facilitate the efficient integration, transmission, and distribution of renewable energy over long distances, enhance grid stability, and support the transition to a more sustainable and decarbonized energy system while minimizing energy loss.

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Who Are the Main Competitors Driving the HVDC converter stations Market Forward?

Key players in the HVDC converter stations market include Hitachi Energy Ltd., Siemens Energy AG, Crompton Greaves Limited, Mitsubishi Electric Corporation, Schneider Electric SE, ABB Ltd., Toshiba Corporation, China XD Group, Hyosung Corporation, Prysmian Group, Shanghai Electric Group Co. Ltd., TBEA Co. Ltd., Alstom, ZTT Group, SNC-Lavalin Group Inc., GE Grid Solutions LLC, LS Industrial Systems Co. Ltd., Fuji Electric Co. Ltd., Bharat Heavy Electricals Limited, Hyundai Electric & Energy Systems Co. Ltd., Excelitas Technologies, Nissin Electric Co. Ltd., Rongxin Power Electronic Co. Ltd., Xiamen Jiye Electric Co. Ltd., XJ Group Corporation, Matsusada Precision Inc,

How Are New Trends Transforming the HVDC converter stations Market Size?

Major companies in the HVDC converter station market are concentrating on creating innovative solutions, including frameworks designed to deliver reliable services to customers. Frameworks serve as structured foundations for development, offering guidelines, patterns, and tools that enhance efficiency and consistency in the development process.

What Are the Key Segments Within the Global HVDC converter stations Market?

- 1) By Type: Monopolar, Bi-Polar, Back-To-Back, Multi-Terminal
- 2) By Component: Valve, Converter Transformer, Circuit Breakers, Harmonic Filters, Surge Arresters, Reactors, Other Components
- 3) By Technology: Line Commutated Converters, Voltage Source Converters
- 4) By Capacity: < 500 MW, = 500 MW - 1,000 MW, > 1,000 MW - 3,000 MW, > 3,000 MW
- 5) By Application: Power Industry, Oil And Gas, Powering Island And Remote Loads, Interconnecting Networks

## Europe's Role as the Foremost Player in the HVDC converter stations Market

Europe was the largest region in the market in 2023. North America is expected to be the fastest-growing region in the report during the forecast period. The regions covered in the report are Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, Africa.

### [What Does The HVDC converter stations Market Definition?](#)

High-voltage direct current (HVDC) converter stations are facilities that convert electrical power in high-voltage transmission networks between alternating current (AC) and direct current (DC) formats. These stations are utilized for long-distance power transmission, integrating various power systems, and facilitating the integration of renewable energy sources while minimizing transmission losses and enhancing grid stability.

The HVDC converter stations Global Market Report 2024 from The Business Research Company includes the following key information:

- Market size data for both historical and future periods
- Analysis of both macro and microeconomic factors that have impacted the market over the past five years
- Regional market analysis covering Asia-Pacific, China, Western Europe, Eastern Europe, North America, the USA, South America, and the Middle East and Africa
- Country-specific market analysis for Australia, Brazil, China, France, Germany, India, Indonesia, Japan, Russia, South Korea, the UK, and the USA.

### Overview of the Global HVDC converter stations Market Report: Trends, Opportunities, Strategies, and More

The HVDC converter stations Global Market Report 2024 from The Business Research Company is an extensive resource that delivers insights into HVDC converter stations market size, HVDC converter stations market drivers and trends, HVDC converter stations competitors' revenues, and HVDC converter stations market growth across geographies. This report provides valuable in-depth insights into potential opportunities and strategies. Companies can utilize the information presented to target segments with the greatest growth potential.

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