

Global High-power Thyristors for High-voltage Direct Current Transmission Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global High-power Thyristors for High-voltage Direct Current Transmission market size was valued at US\$ million in 2025 and is forecast to a readjusted size of US\$ million by 2032 with a CAGR of %during review period.

A thyristor refers to a semiconductor device with four interleaved P and N layers. The earliest and main one is Silicon Controlled Rectifier (SCR), which is usually referred to as SCR in mainland China, also known as semiconductor-controlled rectifier. It is a power semiconductor device with three PN junctions. It is the first Representative of the next generation semiconductor power electronic devices.

This report is a detailed and comprehensive analysis for global High-power Thyristors for High-voltage Direct Current Transmission market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global High-power Thyristors for High-voltage Direct Current Transmission market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global High-power Thyristors for High-voltage Direct Current Transmission market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global High-power Thyristors for High-voltage Direct Current Transmission market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global High-power Thyristors for High-voltage Direct Current Transmission market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for High-power Thyristors for High-voltage Direct Current Transmission

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global High-power Thyristors for High-voltage Direct Current Transmission market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include AREVA, ABB, SIEMENS, Infineon Technologies, China Electric Power Research Institute, XJ Group, PERI, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

High-power Thyristors for High-voltage Direct Current Transmission market is split by Type and by Application. For the period 2021-2032, the growth among segments

provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Electronically Controlled Thyristor

Optical Thyristor

Others

Market segment by Application

Power Transmission

Industrial

Others

Major players covered

AREVA

ABB

SIEMENS

Infineon Technologies

China Electric Power Research Institute

XJ Group

PERI

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 High-power Thyristors for High-voltage Direct Current Transmission product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of High-power Thyristors for High-voltage Direct Current Transmission, with price, sales quantity, revenue, and global market share of High-power Thyristors for High-voltage Direct Current Transmission from 2021 to 2026.

Chapter 3, the High-power Thyristors for High-voltage Direct Current Transmission competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the High-power Thyristors for High-voltage Direct Current Transmission breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

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 2021 to 2026. and High-power Thyristors for High-voltage Direct

Current Transmission market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 High-power Thyristors for High-voltage Direct Current Transmission.

Chapter 14 and 15, to describe High-power Thyristors for High-voltage Direct Current Transmission sales channel, distributors, customers, research findings and conclusion.

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