

Global High-power Thyristors for High-voltage Direct Current Transmission Market Growth 2026-2032

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Abstracts

The global High-power Thyristors for High-voltage Direct Current Transmission market size is predicted to grow from US\$ million in 2025 to US\$ million in 2032; it is expected to grow at a CAGR of % from 2026 to 2032.

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.

United States market for High-power Thyristors for High-voltage Direct Current Transmission is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for High-power Thyristors for High-voltage Direct Current Transmission is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for High-power Thyristors for High-voltage Direct Current Transmission is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key High-power Thyristors for High-voltage Direct Current Transmission players cover AREVA, ABB, SIEMENS, Infineon Technologies, China Electric Power Research Institute, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "High-power Thyristors for High-voltage Direct Current Transmission Industry Forecast" looks at past sales and reviews total world High-power Thyristors for High-voltage Direct Current Transmission sales in 2025, providing a comprehensive analysis by region and market sector of projected High-power Thyristors for High-voltage Direct Current Transmission sales for 2026 through 2032. With High-power Thyristors for High-voltage Direct Current Transmission sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world High-power Thyristors for High-voltage Direct Current Transmission industry.

This Insight Report provides a comprehensive analysis of the global High-power Thyristors for High-voltage Direct Current Transmission landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on High-power Thyristors for High-voltage Direct Current Transmission portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global High-power Thyristors for High-voltage Direct Current Transmission market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for High-power Thyristors for High-voltage Direct Current Transmission and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global High-power Thyristors for High-voltage Direct Current Transmission.

This report presents a comprehensive overview, market shares, and growth opportunities of High-power Thyristors for High-voltage Direct Current Transmission market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Electronically Controlled Thyristor

Optical Thyristor

Others

Segmentation by Application:

Power Transmission

Industrial

Others

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 analysing the company's coverage, product portfolio, its market penetration.

AREVA

ABB

SIEMENS

Infineon Technologies

China Electric Power Research Institute

XJ Group

PERI

Key Questions Addressed in this Report

What is the 10-year outlook for the global High-power Thyristors for High-voltage Direct Current Transmission market?

What factors are driving High-power Thyristors for High-voltage Direct Current Transmission market growth, globally and by region?

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

How do High-power Thyristors for High-voltage Direct Current Transmission market opportunities vary by end market size?

How does High-power Thyristors for High-voltage Direct Current Transmission break out by Type, by Application?

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