

Global Integrated Gate Commutated Thyristor (IGCT) Market Growth 2025-2031

<https://marketpublishers.com/r/GBBD752A7D1CEN.html>

Date: June 2026

Pages: 87

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

ID: GBBD752A7D1CEN

Abstracts

The global Integrated Gate Commutated Thyristor (IGCT) market size is predicted to grow from US\$ 13.8 million in 2025 to US\$ 18.5 million in 2031; it is expected to grow at a CAGR of 5.0% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

An integrated gate commutated thyristor (IGCT) is a gate-controlled turn-off switch, which performs similar to a thyristor with lowest conduction losses. IGCT is a power semiconductor, which can be used for medium to high-voltage applications ranging from 0.5 MVA up to several 100 MVA. IGCT enables a robust series connection between high power turn-off devices used for high power applications.

Low conduction loss as compared to GTO and IGBT, increased usage of power electronics in renewable energy sources, better performance at high temperature, and low price are the factors that drive the market. In addition, use of power semiconductor devices in hybrid vehicles and invention of high-power technology (HPT) platform boost the growth of the IGCT market. However, bulky structure of thyristor and complex manufacturing process restricts the growth of the market.

LP Information, Inc. (LPI) ' newest research report, the "Integrated Gate Commutated Thyristor (IGCT) Industry Forecast" looks at past sales and reviews total world Integrated Gate Commutated Thyristor (IGCT) sales in 2024, providing a comprehensive analysis by region and market sector of projected Integrated Gate Commutated Thyristor (IGCT) sales for 2025 through 2031. With Integrated Gate

Commutated Thyristor (IGCT) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Integrated Gate Commutated Thyristor (IGCT) industry.

This Insight Report provides a comprehensive analysis of the global Integrated Gate Commutated Thyristor (IGCT) 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 Integrated Gate Commutated Thyristor (IGCT) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Integrated Gate Commutated Thyristor (IGCT) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Integrated Gate Commutated Thyristor (IGCT) 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 Integrated Gate Commutated Thyristor (IGCT).

This report presents a comprehensive overview, market shares, and growth opportunities of Integrated Gate Commutated Thyristor (IGCT) market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Asymmetric IGCT

Reverse Blocking IGCT

Reverse Conducting IGCT

Segmentation by Application:

Drive

Traction

Converter

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.

ABB

Infineon Technologies

Mitsubishi Electric

Tianjin Century Electronics

CSR Zhuzhou Institute Co, Ltd. (CRRC)

General Electric

Xiamen Hidins Technology Co. Ltd.

Jiangyin City Saiying Electron Co. Ltd.

AmePower

Shenzhen CTW Semiconductor Co.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Integrated Gate Commutated Thyristor (IGCT) market?

What factors are driving Integrated Gate Commutated Thyristor (IGCT) market growth, globally and by region?

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

How do Integrated Gate Commutated Thyristor (IGCT) market opportunities vary by end market size?

How does Integrated Gate Commutated Thyristor (IGCT) break out by Type, by Application?

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