

# Global Integrated Gate Commutated Thyristor (IGCT) 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 Integrated Gate Commutated Thyristor (IGCT) market size was valued at USD 13 million in 2023 and is forecast to a readjusted size of USD 17 million by 2030 with a CAGR of 4.6% during review period.

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.

The Global Info Research report includes an overview of the development of the Integrated Gate Commutated Thyristor (IGCT) industry chain, the market status of Drive (Asymmetric IGCT, Reverse Blocking IGCT), Traction (Asymmetric IGCT, Reverse Blocking IGCT), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Integrated Gate Commutated Thyristor (IGCT).

Regionally, the report analyzes the Integrated Gate Commutated Thyristor (IGCT) 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 Integrated Gate Commutated Thyristor (IGCT) market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Integrated Gate Commutated Thyristor (IGCT) 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 Integrated Gate Commutated Thyristor (IGCT) 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., Asymmetric IGCT, Reverse Blocking IGCT).

**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 Integrated Gate Commutated Thyristor (IGCT) market.

**Regional Analysis:** The report involves examining the Integrated Gate Commutated Thyristor (IGCT) 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 Integrated Gate Commutated Thyristor (IGCT) market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Integrated Gate Commutated Thyristor (IGCT):

**Company Analysis:** Report covers individual Integrated Gate Commutated Thyristor (IGCT) 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 Integrated Gate Commutated Thyristor (IGCT). This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Drive, Traction).

**Technology Analysis:** Report covers specific technologies relevant to Integrated Gate Commutated Thyristor (IGCT). It assesses the current state, advancements, and potential future developments in Integrated Gate Commutated Thyristor (IGCT) areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Integrated Gate Commutated Thyristor (IGCT) 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

Integrated Gate Commutated Thyristor (IGCT) 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

Asymmetric IGCT

Reverse Blocking IGCT

Reverse Conducting IGCT

### Market segment by Application

Drive

Traction

Converter

Others

#### Major players covered

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.

#### 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 Integrated Gate Commutated Thyristor (IGCT) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Integrated Gate Commutated Thyristor (IGCT), with price, sales, revenue and global market share of Integrated Gate Commutated Thyristor (IGCT) from 2019 to 2024.

Chapter 3, the Integrated Gate Commutated Thyristor (IGCT) competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Integrated Gate Commutated Thyristor (IGCT) 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 Integrated Gate Commutated Thyristor (IGCT) 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 Integrated Gate Commutated Thyristor (IGCT).

Chapter 14 and 15, to describe Integrated Gate Commutated Thyristor (IGCT) sales

channel, distributors, customers, research findings and conclusion.

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