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Global GaN and SiC Power Semiconductor 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 GaN and SiC Power Semiconductor market size was valued at USD 1045.8 million in 2023 and is forecast to a readjusted size of USD 3983.9 million by 2030 with a CAGR of 21.1% during review period.

The power semiconductor is the core of electronic device electrical energy conversion and circuit control. In essence, it uses the unidirectional conductivity of the semiconductor to realize the function of power switch and power conversion. Whether it is hydropower, nuclear power, thermal power or wind power, or even the chemical energy provided by various batteries, most of them cannot be directly used. More than 75% of the electrical energy applications require power conversion by power semiconductor devices before they can be used by equipment.

According to our Semiconductor Research Center, in 2022, the global SiC wafer was valued at US$ 750 million, will grow rapidly in next six years, driven by the strong demand from electric vehicle (EV). Currently the 6 inch SiC substrates are dominating this market, and in next six years, more players will put into production the 8 inch SiC wafers. Currently the key players of SiC are mainly located headquartered United States, Europe, Japan and China, especially in China, more companies are entering the SiC market. It is predicted that, Chinese companies will play key roles in the SiC market in next ten years.

The Global Info Research report includes an overview of the development of the GaN and SiC Power Semiconductor industry chain, the market status of Power supplies (SiC Power Module, GaN Power Module), Industrial motor drives (SiC Power Module, GaN

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Power Module), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of GaN and SiC Power Semiconductor.

Regionally, the report analyzes the GaN and SiC Power Semiconductor 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 GaN and SiC Power Semiconductor market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the GaN and SiC Power Semiconductor 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 GaN and SiC Power Semiconductor 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., SiC Power Module, GaN Power Module).

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 GaN and SiC Power Semiconductor market.

Regional Analysis: The report involves examining the GaN and SiC Power Semiconductor 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 GaN and SiC Power Semiconductor market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

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The report also involves a more granular approach to GaN and SiC Power Semiconductor:

Company Analysis: Report covers individual GaN and SiC Power Semiconductor 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 GaN and SiC Power Semiconductor This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Power supplies, Industrial motor drives).

Technology Analysis: Report covers specific technologies relevant to GaN and SiC Power Semiconductor. It assesses the current state, advancements, and potential future developments in GaN and SiC Power Semiconductor areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the GaN and SiC Power Semiconductor 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

GaN and SiC Power Semiconductor 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

SiC Power Module

GaN Power Module

Discrete SiC

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Discrete GaN

Market segment by Application

Power supplies

Industrial motor drives

PV inverters

Traction

Major players covered

Mitsubishi Electric Corporation

Infineon Technologies AG

ROHM Semiconductor

NXP Semiconductors

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)

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The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe GaN and SiC Power Semiconductor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of GaN and SiC Power Semiconductor, with price, sales, revenue and global market share of GaN and SiC Power Semiconductor from 2019 to 2024.

Chapter 3, the GaN and SiC Power Semiconductor competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the GaN and SiC Power Semiconductor 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 GaN and SiC Power Semiconductor 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 GaN and SiC Power Semiconductor.

Chapter 14 and 15, to describe GaN and SiC Power Semiconductor sales channel, distributors, customers, research findings and conclusion.

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