

Global Wide Bandgap Power (WBG) Semiconductor Devices Market 2024 by Company, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Wide Bandgap Power (WBG) Semiconductor Devices market size was valued at USD 938.5 million in 2023 and is forecast to a readjusted size of USD 7795.1 million by 2030 with a CAGR of 35.3% during review period.

Wide-bandgap semiconductors (WBG) are semiconductor materials which have a relatively large band gap compared to typical semiconductors.

Global key wide bandgap power (WBG) semiconductor devices manufacturers include Wolfsped (Cree), Infineon Technologies, ROHM Semiconductor etc. The top 5 companies hold a share about 67%. Asia Pacific is the largest market, with a share about 58%, followed by Europe and North America with the share about 20% and 18%.

The Global Info Research report includes an overview of the development of the Wide Bandgap Power (WBG) Semiconductor Devices industry chain, the market status of Photovoltaic and Energy Storage Systems (Power SiC Device, Power GaN Device), Electric Vehicle Charging Infrastructure (Power SiC Device, Power GaN Device), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Wide Bandgap Power (WBG) Semiconductor Devices.

Regionally, the report analyzes the Wide Bandgap Power (WBG) Semiconductor Devices 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 Wide Bandgap Power (WBG)

Semiconductor Devices market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Wide Bandgap Power (WBG) Semiconductor Devices 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 Wide Bandgap Power (WBG) Semiconductor Devices 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 revenue generated, and market share of different by Type (e.g., Power SiC Device, Power GaN Device).

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 Wide Bandgap Power (WBG) Semiconductor Devices market.

Regional Analysis: The report involves examining the Wide Bandgap Power (WBG) Semiconductor Devices 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 Wide Bandgap Power (WBG) Semiconductor Devices market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Wide Bandgap Power (WBG) Semiconductor Devices:

Company Analysis: Report covers individual Wide Bandgap Power (WBG) Semiconductor Devices players, 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 Wide Bandgap Power (WBG) Semiconductor Devices. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Photovoltaic and Energy Storage Systems, Electric Vehicle Charging Infrastructure).

Technology Analysis: Report covers specific technologies relevant to Wide Bandgap Power (WBG) Semiconductor Devices. It assesses the current state, advancements, and potential future developments in Wide Bandgap Power (WBG) Semiconductor Devices areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Wide Bandgap Power (WBG) Semiconductor Devices 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

Wide Bandgap Power (WBG) Semiconductor Devices 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 value.

Market segment by Type

Power SiC Device

Power GaN Device

Market segment by Application

Photovoltaic and Energy Storage Systems

Electric Vehicle Charging Infrastructure

PFC Power Supply

Rail

Motor Drive

UPS

Others

Market segment by players, this report covers

Wolfsped (Cree)

Infineon Technologies

ROHM Semiconductor

STMicroelectronics

onsemi

Mitsubishi Electric

Littelfuse

Microchip Technology

GeneSiC Semiconductor

Transphorm

GaN Systems

Navitas Semiconductor

Efficient Power Conversion (EPC)

Market segment by regions, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, UK, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Australia and Rest of Asia-Pacific)

South America (Brazil, Argentina and Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Wide Bandgap Power (WBG) Semiconductor Devices product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Wide Bandgap Power (WBG) Semiconductor Devices, with revenue, gross margin and global market share of Wide Bandgap Power (WBG) Semiconductor Devices from 2019 to 2024.

Chapter 3, the Wide Bandgap Power (WBG) Semiconductor Devices competitive situation, revenue and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and application, with consumption value and growth rate by Type, application, from 2019 to 2030.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2019 to 2024. and Wide Bandgap Power (WBG) Semiconductor Devices market forecast, by regions, type and application, with consumption value, from 2025 to 2030.

Chapter 11, market dynamics, drivers, restraints, trends and Porters Five Forces

analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Wide Bandgap Power (WBG) Semiconductor Devices.

Chapter 13, to describe Wide Bandgap Power (WBG) Semiconductor Devices research findings and conclusion.

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