

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

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.

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 presents 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

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)

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.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope of GaN and SiC Power Semiconductor

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global GaN and SiC Power Semiconductor Consumption Value by Type: 2019 Versus 2023 Versus 2030

1.3.2 SiC Power Module

1.3.3 GaN Power Module

1.3.4 Discrete SiC

1.3.5 Discrete GaN

1.4 Market Analysis by Application

1.4.1 Overview: Global GaN and SiC Power Semiconductor Consumption Value by Application: 2019 Versus 2023 Versus 2030

1.4.2 Power supplies

1.4.3 Industrial motor drives

1.4.4 PV inverters

1.4.5 Traction

1.5 Global GaN and SiC Power Semiconductor Market Size & Forecast

1.5.1 Global GaN and SiC Power Semiconductor Consumption Value (2019 & 2023 & 2030)

1.5.2 Global GaN and SiC Power Semiconductor Sales Quantity (2019-2030)

1.5.3 Global GaN and SiC Power Semiconductor Average Price (2019-2030)

2 MANUFACTURERS PROFILES

2.1 Mitsubishi Electric Corporation

2.1.1 Mitsubishi Electric Corporation Details

2.1.2 Mitsubishi Electric Corporation Major Business

2.1.3 Mitsubishi Electric Corporation GaN and SiC Power Semiconductor Product and Services

2.1.4 Mitsubishi Electric Corporation GaN and SiC Power Semiconductor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.1.5 Mitsubishi Electric Corporation Recent Developments/Updates

2.2 Infineon Technologies AG

2.2.1 Infineon Technologies AG Details

2.2.2 Infineon Technologies AG Major Business

2.2.3 Infineon Technologies AG GaN and SiC Power Semiconductor Product and Services

2.2.4 Infineon Technologies AG GaN and SiC Power Semiconductor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.2.5 Infineon Technologies AG Recent Developments/Updates

2.3 ROHM Semiconductor

2.3.1 ROHM Semiconductor Details

2.3.2 ROHM Semiconductor Major Business

2.3.3 ROHM Semiconductor GaN and SiC Power Semiconductor Product and Services

2.3.4 ROHM Semiconductor GaN and SiC Power Semiconductor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.3.5 ROHM Semiconductor Recent Developments/Updates

2.4 NXP Semiconductors

2.4.1 NXP Semiconductors Details

2.4.2 NXP Semiconductors Major Business

2.4.3 NXP Semiconductors GaN and SiC Power Semiconductor Product and Services

2.4.4 NXP Semiconductors GaN and SiC Power Semiconductor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.4.5 NXP Semiconductors Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: GAN AND SIC POWER SEMICONDUCTOR BY MANUFACTURER

3.1 Global GaN and SiC Power Semiconductor Sales Quantity by Manufacturer (2019-2024)

3.2 Global GaN and SiC Power Semiconductor Revenue by Manufacturer (2019-2024)

3.3 Global GaN and SiC Power Semiconductor Average Price by Manufacturer (2019-2024)

3.4 Market Share Analysis (2023)

3.4.1 Producer Shipments of GaN and SiC Power Semiconductor by Manufacturer Revenue (\$MM) and Market Share (%): 2023

3.4.2 Top 3 GaN and SiC Power Semiconductor Manufacturer Market Share in 2023

3.4.2 Top 6 GaN and SiC Power Semiconductor Manufacturer Market Share in 2023

3.5 GaN and SiC Power Semiconductor Market: Overall Company Footprint Analysis

3.5.1 GaN and SiC Power Semiconductor Market: Region Footprint

3.5.2 GaN and SiC Power Semiconductor Market: Company Product Type Footprint

3.5.3 GaN and SiC Power Semiconductor Market: Company Product Application Footprint

- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global GaN and SiC Power Semiconductor Market Size by Region
 - 4.1.1 Global GaN and SiC Power Semiconductor Sales Quantity by Region (2019-2030)
 - 4.1.2 Global GaN and SiC Power Semiconductor Consumption Value by Region (2019-2030)
 - 4.1.3 Global GaN and SiC Power Semiconductor Average Price by Region (2019-2030)
- 4.2 North America GaN and SiC Power Semiconductor Consumption Value (2019-2030)
- 4.3 Europe GaN and SiC Power Semiconductor Consumption Value (2019-2030)
- 4.4 Asia-Pacific GaN and SiC Power Semiconductor Consumption Value (2019-2030)
- 4.5 South America GaN and SiC Power Semiconductor Consumption Value (2019-2030)
- 4.6 Middle East and Africa GaN and SiC Power Semiconductor Consumption Value (2019-2030)

5 MARKET SEGMENT BY TYPE

- 5.1 Global GaN and SiC Power Semiconductor Sales Quantity by Type (2019-2030)
- 5.2 Global GaN and SiC Power Semiconductor Consumption Value by Type (2019-2030)
- 5.3 Global GaN and SiC Power Semiconductor Average Price by Type (2019-2030)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global GaN and SiC Power Semiconductor Sales Quantity by Application (2019-2030)
- 6.2 Global GaN and SiC Power Semiconductor Consumption Value by Application (2019-2030)
- 6.3 Global GaN and SiC Power Semiconductor Average Price by Application (2019-2030)

7 NORTH AMERICA

7.1 North America GaN and SiC Power Semiconductor Sales Quantity by Type (2019-2030)

7.2 North America GaN and SiC Power Semiconductor Sales Quantity by Application (2019-2030)

7.3 North America GaN and SiC Power Semiconductor Market Size by Country

7.3.1 North America GaN and SiC Power Semiconductor Sales Quantity by Country (2019-2030)

7.3.2 North America GaN and SiC Power Semiconductor Consumption Value by Country (2019-2030)

7.3.3 United States Market Size and Forecast (2019-2030)

7.3.4 Canada Market Size and Forecast (2019-2030)

7.3.5 Mexico Market Size and Forecast (2019-2030)

8 EUROPE

8.1 Europe GaN and SiC Power Semiconductor Sales Quantity by Type (2019-2030)

8.2 Europe GaN and SiC Power Semiconductor Sales Quantity by Application (2019-2030)

8.3 Europe GaN and SiC Power Semiconductor Market Size by Country

8.3.1 Europe GaN and SiC Power Semiconductor Sales Quantity by Country (2019-2030)

8.3.2 Europe GaN and SiC Power Semiconductor Consumption Value by Country (2019-2030)

8.3.3 Germany Market Size and Forecast (2019-2030)

8.3.4 France Market Size and Forecast (2019-2030)

8.3.5 United Kingdom Market Size and Forecast (2019-2030)

8.3.6 Russia Market Size and Forecast (2019-2030)

8.3.7 Italy Market Size and Forecast (2019-2030)

9 ASIA-PACIFIC

9.1 Asia-Pacific GaN and SiC Power Semiconductor Sales Quantity by Type (2019-2030)

9.2 Asia-Pacific GaN and SiC Power Semiconductor Sales Quantity by Application (2019-2030)

9.3 Asia-Pacific GaN and SiC Power Semiconductor Market Size by Region

9.3.1 Asia-Pacific GaN and SiC Power Semiconductor Sales Quantity by Region (2019-2030)

9.3.2 Asia-Pacific GaN and SiC Power Semiconductor Consumption Value by Region

(2019-2030)

- 9.3.3 China Market Size and Forecast (2019-2030)
- 9.3.4 Japan Market Size and Forecast (2019-2030)
- 9.3.5 Korea Market Size and Forecast (2019-2030)
- 9.3.6 India Market Size and Forecast (2019-2030)
- 9.3.7 Southeast Asia Market Size and Forecast (2019-2030)
- 9.3.8 Australia Market Size and Forecast (2019-2030)

10 SOUTH AMERICA

- 10.1 South America GaN and SiC Power Semiconductor Sales Quantity by Type (2019-2030)
- 10.2 South America GaN and SiC Power Semiconductor Sales Quantity by Application (2019-2030)
- 10.3 South America GaN and SiC Power Semiconductor Market Size by Country
 - 10.3.1 South America GaN and SiC Power Semiconductor Sales Quantity by Country (2019-2030)
 - 10.3.2 South America GaN and SiC Power Semiconductor Consumption Value by Country (2019-2030)
 - 10.3.3 Brazil Market Size and Forecast (2019-2030)
 - 10.3.4 Argentina Market Size and Forecast (2019-2030)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa GaN and SiC Power Semiconductor Sales Quantity by Type (2019-2030)
- 11.2 Middle East & Africa GaN and SiC Power Semiconductor Sales Quantity by Application (2019-2030)
- 11.3 Middle East & Africa GaN and SiC Power Semiconductor Market Size by Country
 - 11.3.1 Middle East & Africa GaN and SiC Power Semiconductor Sales Quantity by Country (2019-2030)
 - 11.3.2 Middle East & Africa GaN and SiC Power Semiconductor Consumption Value by Country (2019-2030)
 - 11.3.3 Turkey Market Size and Forecast (2019-2030)
 - 11.3.4 Egypt Market Size and Forecast (2019-2030)
 - 11.3.5 Saudi Arabia Market Size and Forecast (2019-2030)
 - 11.3.6 South Africa Market Size and Forecast (2019-2030)

12 MARKET DYNAMICS

- 12.1 GaN and SiC Power Semiconductor Market Drivers
- 12.2 GaN and SiC Power Semiconductor Market Restraints
- 12.3 GaN and SiC Power Semiconductor Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers
 - 12.4.4 Threat of Substitutes
 - 12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of GaN and SiC Power Semiconductor and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of GaN and SiC Power Semiconductor
- 13.3 GaN and SiC Power Semiconductor Production Process
- 13.4 GaN and SiC Power Semiconductor Industrial Chain

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 GaN and SiC Power Semiconductor Typical Distributors
- 14.3 GaN and SiC Power Semiconductor Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global GaN and SiC Power Semiconductor Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Table 2. Global GaN and SiC Power Semiconductor Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Table 3. Mitsubishi Electric Corporation Basic Information, Manufacturing Base and Competitors

Table 4. Mitsubishi Electric Corporation Major Business

Table 5. Mitsubishi Electric Corporation GaN and SiC Power Semiconductor Product and Services

Table 6. Mitsubishi Electric Corporation GaN and SiC Power Semiconductor Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 7. Mitsubishi Electric Corporation Recent Developments/Updates

Table 8. Infineon Technologies AG Basic Information, Manufacturing Base and Competitors

Table 9. Infineon Technologies AG Major Business

Table 10. Infineon Technologies AG GaN and SiC Power Semiconductor Product and Services

Table 11. Infineon Technologies AG GaN and SiC Power Semiconductor Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 12. Infineon Technologies AG Recent Developments/Updates

Table 13. ROHM Semiconductor Basic Information, Manufacturing Base and Competitors

Table 14. ROHM Semiconductor Major Business

Table 15. ROHM Semiconductor GaN and SiC Power Semiconductor Product and Services

Table 16. ROHM Semiconductor GaN and SiC Power Semiconductor Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 17. ROHM Semiconductor Recent Developments/Updates

Table 18. NXP Semiconductors Basic Information, Manufacturing Base and Competitors

Table 19. NXP Semiconductors Major Business

Table 20. NXP Semiconductors GaN and SiC Power Semiconductor Product and

Services

Table 21. NXP Semiconductors GaN and SiC Power Semiconductor Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 22. NXP Semiconductors Recent Developments/Updates

Table 23. Global GaN and SiC Power Semiconductor Sales Quantity by Manufacturer (2019-2024) & (K Units)

Table 24. Global GaN and SiC Power Semiconductor Revenue by Manufacturer (2019-2024) & (USD Million)

Table 25. Global GaN and SiC Power Semiconductor Average Price by Manufacturer (2019-2024) & (USD/Unit)

Table 26. Market Position of Manufacturers in GaN and SiC Power Semiconductor, (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2023

Table 27. Head Office and GaN and SiC Power Semiconductor Production Site of Key Manufacturer

Table 28. GaN and SiC Power Semiconductor Market: Company Product Type Footprint

Table 29. GaN and SiC Power Semiconductor Market: Company Product Application Footprint

Table 30. GaN and SiC Power Semiconductor New Market Entrants and Barriers to Market Entry

Table 31. GaN and SiC Power Semiconductor Mergers, Acquisition, Agreements, and Collaborations

Table 32. Global GaN and SiC Power Semiconductor Sales Quantity by Region (2019-2024) & (K Units)

Table 33. Global GaN and SiC Power Semiconductor Sales Quantity by Region (2025-2030) & (K Units)

Table 34. Global GaN and SiC Power Semiconductor Consumption Value by Region (2019-2024) & (USD Million)

Table 35. Global GaN and SiC Power Semiconductor Consumption Value by Region (2025-2030) & (USD Million)

Table 36. Global GaN and SiC Power Semiconductor Average Price by Region (2019-2024) & (USD/Unit)

Table 37. Global GaN and SiC Power Semiconductor Average Price by Region (2025-2030) & (USD/Unit)

Table 38. Global GaN and SiC Power Semiconductor Sales Quantity by Type (2019-2024) & (K Units)

Table 39. Global GaN and SiC Power Semiconductor Sales Quantity by Type (2025-2030) & (K Units)

Table 40. Global GaN and SiC Power Semiconductor Consumption Value by Type (2019-2024) & (USD Million)

Table 41. Global GaN and SiC Power Semiconductor Consumption Value by Type (2025-2030) & (USD Million)

Table 42. Global GaN and SiC Power Semiconductor Average Price by Type (2019-2024) & (USD/Unit)

Table 43. Global GaN and SiC Power Semiconductor Average Price by Type (2025-2030) & (USD/Unit)

Table 44. Global GaN and SiC Power Semiconductor Sales Quantity by Application (2019-2024) & (K Units)

Table 45. Global GaN and SiC Power Semiconductor Sales Quantity by Application (2025-2030) & (K Units)

Table 46. Global GaN and SiC Power Semiconductor Consumption Value by Application (2019-2024) & (USD Million)

Table 47. Global GaN and SiC Power Semiconductor Consumption Value by Application (2025-2030) & (USD Million)

Table 48. Global GaN and SiC Power Semiconductor Average Price by Application (2019-2024) & (USD/Unit)

Table 49. Global GaN and SiC Power Semiconductor Average Price by Application (2025-2030) & (USD/Unit)

Table 50. North America GaN and SiC Power Semiconductor Sales Quantity by Type (2019-2024) & (K Units)

Table 51. North America GaN and SiC Power Semiconductor Sales Quantity by Type (2025-2030) & (K Units)

Table 52. North America GaN and SiC Power Semiconductor Sales Quantity by Application (2019-2024) & (K Units)

Table 53. North America GaN and SiC Power Semiconductor Sales Quantity by Application (2025-2030) & (K Units)

Table 54. North America GaN and SiC Power Semiconductor Sales Quantity by Country (2019-2024) & (K Units)

Table 55. North America GaN and SiC Power Semiconductor Sales Quantity by Country (2025-2030) & (K Units)

Table 56. North America GaN and SiC Power Semiconductor Consumption Value by Country (2019-2024) & (USD Million)

Table 57. North America GaN and SiC Power Semiconductor Consumption Value by Country (2025-2030) & (USD Million)

Table 58. Europe GaN and SiC Power Semiconductor Sales Quantity by Type (2019-2024) & (K Units)

Table 59. Europe GaN and SiC Power Semiconductor Sales Quantity by Type

(2025-2030) & (K Units)

Table 60. Europe GaN and SiC Power Semiconductor Sales Quantity by Application (2019-2024) & (K Units)

Table 61. Europe GaN and SiC Power Semiconductor Sales Quantity by Application (2025-2030) & (K Units)

Table 62. Europe GaN and SiC Power Semiconductor Sales Quantity by Country (2019-2024) & (K Units)

Table 63. Europe GaN and SiC Power Semiconductor Sales Quantity by Country (2025-2030) & (K Units)

Table 64. Europe GaN and SiC Power Semiconductor Consumption Value by Country (2019-2024) & (USD Million)

Table 65. Europe GaN and SiC Power Semiconductor Consumption Value by Country (2025-2030) & (USD Million)

Table 66. Asia-Pacific GaN and SiC Power Semiconductor Sales Quantity by Type (2019-2024) & (K Units)

Table 67. Asia-Pacific GaN and SiC Power Semiconductor Sales Quantity by Type (2025-2030) & (K Units)

Table 68. Asia-Pacific GaN and SiC Power Semiconductor Sales Quantity by Application (2019-2024) & (K Units)

Table 69. Asia-Pacific GaN and SiC Power Semiconductor Sales Quantity by Application (2025-2030) & (K Units)

Table 70. Asia-Pacific GaN and SiC Power Semiconductor Sales Quantity by Region (2019-2024) & (K Units)

Table 71. Asia-Pacific GaN and SiC Power Semiconductor Sales Quantity by Region (2025-2030) & (K Units)

Table 72. Asia-Pacific GaN and SiC Power Semiconductor Consumption Value by Region (2019-2024) & (USD Million)

Table 73. Asia-Pacific GaN and SiC Power Semiconductor Consumption Value by Region (2025-2030) & (USD Million)

Table 74. South America GaN and SiC Power Semiconductor Sales Quantity by Type (2019-2024) & (K Units)

Table 75. South America GaN and SiC Power Semiconductor Sales Quantity by Type (2025-2030) & (K Units)

Table 76. South America GaN and SiC Power Semiconductor Sales Quantity by Application (2019-2024) & (K Units)

Table 77. South America GaN and SiC Power Semiconductor Sales Quantity by Application (2025-2030) & (K Units)

Table 78. South America GaN and SiC Power Semiconductor Sales Quantity by Country (2019-2024) & (K Units)

Table 79. South America GaN and SiC Power Semiconductor Sales Quantity by Country (2025-2030) & (K Units)

Table 80. South America GaN and SiC Power Semiconductor Consumption Value by Country (2019-2024) & (USD Million)

Table 81. South America GaN and SiC Power Semiconductor Consumption Value by Country (2025-2030) & (USD Million)

Table 82. Middle East & Africa GaN and SiC Power Semiconductor Sales Quantity by Type (2019-2024) & (K Units)

Table 83. Middle East & Africa GaN and SiC Power Semiconductor Sales Quantity by Type (2025-2030) & (K Units)

Table 84. Middle East & Africa GaN and SiC Power Semiconductor Sales Quantity by Application (2019-2024) & (K Units)

Table 85. Middle East & Africa GaN and SiC Power Semiconductor Sales Quantity by Application (2025-2030) & (K Units)

Table 86. Middle East & Africa GaN and SiC Power Semiconductor Sales Quantity by Region (2019-2024) & (K Units)

Table 87. Middle East & Africa GaN and SiC Power Semiconductor Sales Quantity by Region (2025-2030) & (K Units)

Table 88. Middle East & Africa GaN and SiC Power Semiconductor Consumption Value by Region (2019-2024) & (USD Million)

Table 89. Middle East & Africa GaN and SiC Power Semiconductor Consumption Value by Region (2025-2030) & (USD Million)

Table 90. GaN and SiC Power Semiconductor Raw Material

Table 91. Key Manufacturers of GaN and SiC Power Semiconductor Raw Materials

Table 92. GaN and SiC Power Semiconductor Typical Distributors

Table 93. GaN and SiC Power Semiconductor Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. GaN and SiC Power Semiconductor Picture
- Figure 2. Global GaN and SiC Power Semiconductor Consumption Value by Type, (USD Million), 2019 & 2023 & 2030
- Figure 3. Global GaN and SiC Power Semiconductor Consumption Value Market Share by Type in 2023
- Figure 4. SiC Power Module Examples
- Figure 5. GaN Power Module Examples
- Figure 6. Discrete SiC Examples
- Figure 7. Discrete GaN Examples
- Figure 8. Global GaN and SiC Power Semiconductor Consumption Value by Application, (USD Million), 2019 & 2023 & 2030
- Figure 9. Global GaN and SiC Power Semiconductor Consumption Value Market Share by Application in 2023
- Figure 10. Power supplies Examples
- Figure 11. Industrial motor drives Examples
- Figure 12. PV inverters Examples
- Figure 13. Traction Examples
- Figure 14. Global GaN and SiC Power Semiconductor Consumption Value, (USD Million): 2019 & 2023 & 2030
- Figure 15. Global GaN and SiC Power Semiconductor Consumption Value and Forecast (2019-2030) & (USD Million)
- Figure 16. Global GaN and SiC Power Semiconductor Sales Quantity (2019-2030) & (K Units)
- Figure 17. Global GaN and SiC Power Semiconductor Average Price (2019-2030) & (USD/Unit)
- Figure 18. Global GaN and SiC Power Semiconductor Sales Quantity Market Share by Manufacturer in 2023
- Figure 19. Global GaN and SiC Power Semiconductor Consumption Value Market Share by Manufacturer in 2023
- Figure 20. Producer Shipments of GaN and SiC Power Semiconductor by Manufacturer Sales Quantity (\$MM) and Market Share (%): 2023
- Figure 21. Top 3 GaN and SiC Power Semiconductor Manufacturer (Consumption Value) Market Share in 2023
- Figure 22. Top 6 GaN and SiC Power Semiconductor Manufacturer (Consumption Value) Market Share in 2023

Figure 23. Global GaN and SiC Power Semiconductor Sales Quantity Market Share by Region (2019-2030)

Figure 24. Global GaN and SiC Power Semiconductor Consumption Value Market Share by Region (2019-2030)

Figure 25. North America GaN and SiC Power Semiconductor Consumption Value (2019-2030) & (USD Million)

Figure 26. Europe GaN and SiC Power Semiconductor Consumption Value (2019-2030) & (USD Million)

Figure 27. Asia-Pacific GaN and SiC Power Semiconductor Consumption Value (2019-2030) & (USD Million)

Figure 28. South America GaN and SiC Power Semiconductor Consumption Value (2019-2030) & (USD Million)

Figure 29. Middle East & Africa GaN and SiC Power Semiconductor Consumption Value (2019-2030) & (USD Million)

Figure 30. Global GaN and SiC Power Semiconductor Sales Quantity Market Share by Type (2019-2030)

Figure 31. Global GaN and SiC Power Semiconductor Consumption Value Market Share by Type (2019-2030)

Figure 32. Global GaN and SiC Power Semiconductor Average Price by Type (2019-2030) & (USD/Unit)

Figure 33. Global GaN and SiC Power Semiconductor Sales Quantity Market Share by Application (2019-2030)

Figure 34. Global GaN and SiC Power Semiconductor Consumption Value Market Share by Application (2019-2030)

Figure 35. Global GaN and SiC Power Semiconductor Average Price by Application (2019-2030) & (USD/Unit)

Figure 36. North America GaN and SiC Power Semiconductor Sales Quantity Market Share by Type (2019-2030)

Figure 37. North America GaN and SiC Power Semiconductor Sales Quantity Market Share by Application (2019-2030)

Figure 38. North America GaN and SiC Power Semiconductor Sales Quantity Market Share by Country (2019-2030)

Figure 39. North America GaN and SiC Power Semiconductor Consumption Value Market Share by Country (2019-2030)

Figure 40. United States GaN and SiC Power Semiconductor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 41. Canada GaN and SiC Power Semiconductor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 42. Mexico GaN and SiC Power Semiconductor Consumption Value and Growth

Rate (2019-2030) & (USD Million)

Figure 43. Europe GaN and SiC Power Semiconductor Sales Quantity Market Share by Type (2019-2030)

Figure 44. Europe GaN and SiC Power Semiconductor Sales Quantity Market Share by Application (2019-2030)

Figure 45. Europe GaN and SiC Power Semiconductor Sales Quantity Market Share by Country (2019-2030)

Figure 46. Europe GaN and SiC Power Semiconductor Consumption Value Market Share by Country (2019-2030)

Figure 47. Germany GaN and SiC Power Semiconductor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 48. France GaN and SiC Power Semiconductor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 49. United Kingdom GaN and SiC Power Semiconductor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 50. Russia GaN and SiC Power Semiconductor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 51. Italy GaN and SiC Power Semiconductor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 52. Asia-Pacific GaN and SiC Power Semiconductor Sales Quantity Market Share by Type (2019-2030)

Figure 53. Asia-Pacific GaN and SiC Power Semiconductor Sales Quantity Market Share by Application (2019-2030)

Figure 54. Asia-Pacific GaN and SiC Power Semiconductor Sales Quantity Market Share by Region (2019-2030)

Figure 55. Asia-Pacific GaN and SiC Power Semiconductor Consumption Value Market Share by Region (2019-2030)

Figure 56. China GaN and SiC Power Semiconductor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 57. Japan GaN and SiC Power Semiconductor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 58. Korea GaN and SiC Power Semiconductor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 59. India GaN and SiC Power Semiconductor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 60. Southeast Asia GaN and SiC Power Semiconductor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 61. Australia GaN and SiC Power Semiconductor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 62. South America GaN and SiC Power Semiconductor Sales Quantity Market Share by Type (2019-2030)

Figure 63. South America GaN and SiC Power Semiconductor Sales Quantity Market Share by Application (2019-2030)

Figure 64. South America GaN and SiC Power Semiconductor Sales Quantity Market Share by Country (2019-2030)

Figure 65. South America GaN and SiC Power Semiconductor Consumption Value Market Share by Country (2019-2030)

Figure 66. Brazil GaN and SiC Power Semiconductor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 67. Argentina GaN and SiC Power Semiconductor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 68. Middle East & Africa GaN and SiC Power Semiconductor Sales Quantity Market Share by Type (2019-2030)

Figure 69. Middle East & Africa GaN and SiC Power Semiconductor Sales Quantity Market Share by Application (2019-2030)

Figure 70. Middle East & Africa GaN and SiC Power Semiconductor Sales Quantity Market Share by Region (2019-2030)

Figure 71. Middle East & Africa GaN and SiC Power Semiconductor Consumption Value Market Share by Region (2019-2030)

Figure 72. Turkey GaN and SiC Power Semiconductor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 73. Egypt GaN and SiC Power Semiconductor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 74. Saudi Arabia GaN and SiC Power Semiconductor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 75. South Africa GaN and SiC Power Semiconductor Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 76. GaN and SiC Power Semiconductor Market Drivers

Figure 77. GaN and SiC Power Semiconductor Market Restraints

Figure 78. GaN and SiC Power Semiconductor Market Trends

Figure 79. Porters Five Forces Analysis

Figure 80. Manufacturing Cost Structure Analysis of GaN and SiC Power Semiconductor in 2023

Figure 81. Manufacturing Process Analysis of GaN and SiC Power Semiconductor

Figure 82. GaN and SiC Power Semiconductor Industrial Chain

Figure 83. Sales Quantity Channel: Direct to End-User vs Distributors

Figure 84. Direct Channel Pros & Cons

Figure 85. Indirect Channel Pros & Cons

Figure 86. Methodology

Figure 87. Research Process and Data Source

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