

Wide-Bandgap Power Semiconductor Market - Forecasts from 2018 to 2023

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Abstracts

Wide-bandgap power semiconductor market was valued at US\$220.268 million in 2017 and is projected to expand at a CAGR of 35.60% over the forecast period to reach US\$1369.334 million by 2023. Wide-bandgap semiconductors allow devices to operate at much higher temperature, frequencies, and voltage. Growing focus on the adoption of renewable energy supported by government policies and initiatives is driving the demand for wide-bandgap power semiconductors across renewable energy sector. Geographically, APAC is projected to witness the fastest regional market growth during the forecast period owing to booming consumer electronics industry in the region. North America and Europe will also hold a significant market share due to rising investments across renewable energy sector and rising automobile production.

This research study examines the current market trends related to the demand, supply, and sales, in addition to the recent developments. Major drivers, restraints, and opportunities have been covered to provide an exhaustive picture of the market. The analysis presents in-depth information regarding the development, trends, and industry policies and regulations implemented in each of the geographical regions. Further, the overall regulatory framework of the market has been exhaustively covered to offer stakeholders a better understanding of the key factors affecting the overall market environment.

Identification of key industry players in the industry and their revenue contribution to the overall business or relevant segment aligned to the study have been covered as a part of competitive intelligence done through extensive secondary research. Various studies and data published by industry associations, analyst reports, investor presentations, press releases and journals among others have been taken into consideration while conducting the secondary research. Both bottom-up and top down approaches have

been utilized to determine the market size of the overall market and key segments. The values obtained are correlated with the primary inputs of the key stakeholders in the wide-bandgap power semiconductor value chain. Last step involves complete market engineering which includes analyzing the data from different sources and existing proprietary datasets while using various data triangulation methods for market breakdown and forecasting.

Market intelligence is presented in the form of analysis, charts, and graphics to help the clients in gaining faster and efficient understanding of the Wide-Bandgap Power Semiconductor market.

Major industry players profiled as part of the report are ROHM SEMICONDUCTOR, Cree, Inc., STMicroelectronics, Infineon Technologies AG, and Mitsubishi Electric Corporation.

Segmentation

Wide-Bandgap Power Semiconductor market has been analyzed through following segments:

By Material

Silicon Carbide (SiC)

Gallium Nitride (GaN)

Diamond

Gallium Oxide

Aluminum Nitride (AlN)

By Application

Data Centers

Renewable Energy Generation

Hybrid and Electric Vehicles

Motor Drives

By Geography

North America

South America

Europe

Middle East and Africa

Contents

1. INTRODUCTION

- 1.1. Market Overview
- 1.2. Market Definition
- 1.3. Scope of the Study
- 1.4. Currency
- 1.5. Assumptions
- 1.6. Base, and Forecast Years Timeline

2. RESEARCH METHODOLOGY

- 2.1. Research Design
- 2.2. Secondary Sources

3. EXECUTIVE SUMMARY

4. MARKET DYNAMICS

- 4.1. Market Segmentation
- 4.2. Market Drivers
- 4.3. Market Restraints
- 4.4. Market Opportunities
- 4.5. Porter's Five Force Analysis
 - 4.5.1. Bargaining Power of Suppliers
 - 4.5.2. Bargaining Power of Buyers
 - 4.5.3. Threat of New Entrants
 - 4.5.4. Threat of Substitutes
 - 4.5.5. Competitive Rivalry in the Industry
- 4.6. Life Cycle Analysis - Regional Snapshot
- 4.7. Market Attractiveness

5. WIDE-BANDGAP POWER SEMICONDUCTOR MARKET BY MATERIAL

- 5.1. Silicon Carbide (SiC)
- 5.2. Gallium Nitride (GaN)
- 5.3. Diamond
- 5.4. Gallium Oxide

5.5. Aluminum Nitride (AlN)

6. WIDE-BANDGAP POWER SEMICONDUCTOR MARKET BY APPLICATION

- 6.1. Data Centers
- 6.2. Renewable Energy Generation
- 6.3. Hybrid and Electric Vehicles
- 6.4. Motor Drives

7. WIDE-BANDGAP POWER SEMICONDUCTOR MARKET BY GEOGRAPHY

- 7.1. North America
- 7.2. South America
- 7.4. Middle East and Africa
- 7.5. Asia-Pacific

8. COMPETITIVE INTELLIGENCE

- 8.1. Recent Deals and Investment
- 8.2. Strategies of Key Players
- 8.3. Investment Analysis

9. COMPANY PROFILES

- 9.1. ROHM SEMICONDUCTOR
- 9.2. Cree, Inc.
- 9.3. STMicroelectronics
- 9.4. Infineon Technologies AG
- 9.5. Mitsubishi Electric Corporation
- 9.6. SEMIKRON
- 9.7. Texas Instruments
- 9.8. Maxim Integrated
- 9.9. Analog Devices, Inc.

LIST OF FIGURES

LIST OF TABLES

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