+44 20 8123 2220
info@marketpublishers.com

Global Wide bandgap (WBG) semiconductor Market Size study & Forecast, by Material (Silicon carbide (SiC), Gallium nitride (GaN), Others) by Application (Hybrid/Electric Vehicles, Inverters, UPS, Wind Turbines, Others), by Industry Vertical (Automotive, Aerospace & Defense, Energy & Utility, Telecommunication and Others) and Regional Analysis, 2022-2029

https://marketpublishers.com/r/GC4892C4F2BDEN.html
Date: May 2023
Pages: 200
Price: US$ 4,950.00 (Single User License)
ID: GC4892C4F2BDEN

Abstracts

Global Wide bandgap (WBG) semiconductor Market is valued approximately USD 1.1 billion in 2021 and is anticipated to grow with a healthy growth rate of more than 24.4% over the forecast period 2022-2029. The band gap is the amount of energy required for electrons and holes to transition from a valence band to a conduction band. The silicon band gap is 1.12 electron volts (eV). Silicon carbide (SiC) and gallium nitride are examples of semiconductors with broad band gaps (GaN). Because of their high eV values, these semiconductors can operate at greater voltages, temperatures, and frequency. High energy efficiency, compact size, light weight, and low cost are a few advantages of wide band gap devices. The Wide bandgap (WBG) semiconductor market is expanding because of factors such increasing demand for electric vehicles and surge investments in the production of hybrid and electric vehicles.

Globally, demand for hybrid and electric vehicles is fast rising, with China and a few important European nations leading the charge. A number of nations have put restrictions on the manufacture and sale of automobiles that are fueled by petrol and diesel. By the year 2040, the United Kingdom, France, and a few U.S. states have all agreed to end the sale of automobiles that run on fossil fuels. By 2025, the Norwegian

government wants all new cars sold in the country to be battery-powered electric vehicles. By 2030, the U.S. wants to sell 50% more electric cars. A huge increase from the 1.4 million EVs that have previously been sold in the European Union, the European Commission hopes to see at least 30 million electric vehicles on the road by the end of year 2040. Along with these, To lower the level of air pollution, governments are providing subsidies to consumers who purchase electric vehicles. Consumer demand for traditional internal combustion engine vehicles is predicted to change in favour of electric vehicles as a result of these government subsidies. One of the main contributors to air pollution in major cities is automobile emissions from internal combustion engines. For instance, the German government boosted the subsidy for electric vehicles in June 2020 from US$ 3,565 to US$ 7,130. Moreover, in India, the Delhi state government also announced a subsidy of about US$ 67 per Kwh of the vehicle battery capacity in December 2019. Thus, rising adoption of electric vehicles across the industry is fostering the market growth. In addition, rise in investments in R&D Activities for WBG Materials is creating a lucrative growth to the market. However, high cost of raw material to manufacture Wide bandgap (WBG) semiconductor may halt market growth.

The key regions considered for the Global Wide bandgap (WBG) semiconductor Market study includes Asia Pacific, North America, Europe, Latin America, and Rest of the World. Europe dominated the market in terms of revenue, owing to the rising adoption of electric vehicle and rising automotive industry in the region as well as rising product development activities in the region. Whereas Asia Pacific is expected to grow with a highest CAGR during the forecast period, owing to factors such as rising demand for automotives, favorable government support and geographic expansion of key players in the region.

Major market player included in this report are:
Avago Technologies (Braodcom)
Cree Inc.
Infineon Technologies AG
Navitas Semiconductor
Nexperia
On Semiconductor
Panasonic Corporation
ROHM Semiconductor
STMicroelectronics N.V.
Toshiba Electronic Devices & Storage Corporation

Recent Developments in the Market:
In February 2022, Infineon Technologies AG invested around USD 2.02 billion to increase the manufacturing capacity of its power semiconductors for WBG semiconductors. With items made of silicon carbide and gallium nitride, this new module is anticipated to bring in an additional US$ 2 billion in income per year.
In May 2019, Cree Inc. announced the investment of USD 1 billion to develop its current silicon carbide production capacity.

Global Wide bandgap (WBG) semiconductor Market Report Scope:
Historical Data 2019-2020-2021
Base Year for Estimation 2021
Forecast period 2022-2029
Report Coverage Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends
Segments Covered Material, Application, Industry Vertical, Region
Regional Scope North America; Europe; Asia Pacific; Latin America; Rest of the World
Customization Scope Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and Materialofferings of key players. The detailed segments and sub-segment of the market are explained below:

By Material:
Silicon carbide (SiC)
Gallium nitride (GaN)
Others
By Application:
Hybrid/Electric Vehicles
Inverters
UPS
Wind Turbines

+44 20 8123 2220
info@marketpublishers.com

Others
By Industry Vertical:
Automotive
Aerospace & Defense
Energy & Utility
Telecommunication
Others

By Region:
North America
U.S.
Canada
Europe
UK
Germany
France
Spain
Italy
ROE
Asia Pacific
China
India
Japan
Australia
South Korea
RoAPAC
Latin America
Brazil
Mexico
RoLA
Rest of the World

+44 20 8123 2220
info@marketpublishers.com

Contents

CHAPTER 7. GLOBAL WIDE BANDGAP (WBG) SEMICONDUCTOR MARKET, BY APPLICATION

CHAPTER 8. GLOBAL WIDE BANDGAP (WBG) SEMICONDUCTOR MARKET, BY INDUSTRY VERTICAL

CHAPTER 9. GLOBAL WIDE BANDGAP (WBG) SEMICONDUCTOR MARKET, REGIONAL ANALYSIS

CHAPTER 10. COMPETITIVE INTELLIGENCE

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

List Of Tables

LIST OF TABLES

List of tables and figures and dummy in nature, final lists may vary in the final deliverable

+44 20 8123 2220
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

List of tables and figures and dummy in nature, final lists may vary in the final deliverable

+44 20 8123 2220
info@marketpublishers.com

I would like to order

Product name: Global Wide bandgap (WBG) semiconductor Market Size study & Forecast, by Material (Silicon carbide (SiC), Gallium nitride (GaN), Others) by Application (Hybrid/Electric Vehicles, Inverters, UPS, Wind Turbines, Others), by Industry Vertical (Automotive, Aerospace & Defense, Energy & Utility, Telecommunication and Others) and Regional Analysis, 2022-2029

Product link: https://marketpublishers.com/r/GC4892C4F2BDEN.html

Price: US$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/GC4892C4F2BDEN.html

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

**All fields are required

Custumer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at https://marketpublishers.com/docs/terms.html

+44 20 8123 2220
info@marketpublishers.com

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970