

Global Silicon Carbide Power Semiconductor Market Size study & Forecast, by End-user Industry ((Automotive (xEVs and EV Charging Infrastructure), IT and Telecommunication, Power (Power Supply, UPS, PV, Wind, etc.), Industrial (Motor drives)), and Geography. and Regional Analysis, 2022-2029

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Abstracts

Global Silicon Carbide Power Semiconductor Market is valued at approximately USD XX billion in 2021 and is anticipated to grow with a healthy growth rate of more than XX % over the forecast period 2022-2029. Silicon Carbide Power Semiconductor is developed with the composition of silicon and carbide. It offers various advantages over silicon such as enabling a wide range of n-type and p-type control for device construction, 10x the breakdown electric field strength, 3x band gap, etc. This silicon carbide power semiconductor has major advantages across satellite communications, microwave links, mobile phones, radar systems, etc. The Silicon Carbide Power Semiconductor market is expanding because of factors such as the rising demand for consumer electronics and the growing demand for energy-efficient battery-powered portable devices in the forecast period

According to Statista in 2022, China is deemed as the leading region in electronic devices in terms of highest revenue generation with a worth of around USD 250,911 million. By 2026, the consumer electronic market is anticipated to account for a value of around USD 1,056,693 million. Also, the electronic devices market is expected to grow rapidly in coming years across the globe

It includes smartphones, TV sets, game consoles computers, laptops, and so on. Whereas rising installation of solar photovoltaic panels and growing demand for plug-in electric vehicles and hybrid electric vehicles create lucrative opportunities for the

market. However, the shortage of silicon wafers and variables driving requirements hampers the market growth throughout the forecast period of 2022-2029.

The key regions considered for the Global Silicon Carbide Power Semiconductor Market study include Asia Pacific, North America, Europe, Latin America, and the Rest of the World. The Asia Pacific dominated the market in terms of revenue, owing to the increasing demand from end-use industries, and rising adoption of electronic vehicles and smart technologies. Whereas the Asia Pacific is expected to grow significantly during the forecast period, owing to factors such as rising consumer spending electronic devices and rising penetration of market players, and growing awareness of smart devices

Major market players included in this report are:

Infineon technologies AG
UnitedSiC
ST Microelectronics NV
ON Semiconductor Corporation
GeneSiC Semiconductor Inc.
Danfoss A/S
Microsemi Corporation
Toshiba Corporation
Mitsubishi Electric Corporation
Fuji Electric Co. Ltd

Recent Developments in the Market:

In June 2021, the Japanese electronics company Hitachi expanded its presence in Hillsboro. The company is building a big semiconductor research lab to cooperate with manufacturing clients across the United States. It will help the company to create new technologies

In April 2021, Infineon technologies has enhanced its 1200 Product line by launching EasyPACK 2B module. This new module offers a three-level Active NPC (ANPC) topology, including, NTC temperature sensor, PressFIT contact technology pins, CoolSiC MOSFETs, and TRENCHSTOP IGBT7 devices

Global Silicon Carbide Power 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 End-user Industry, 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 product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By End-User Industry:

Automotive

IT and Telecommunication

Power

Industrial

Other End-user Industries

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
Rest of the World

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