

Global SiC Power Devices for New Energy Vehicles Market Growth 2025-2031

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Abstracts

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The global SiC Power Devices for New Energy Vehicles market size is predicted to grow from US\$ 3064 million in 2025 to US\$ 8960 million in 2031; it is expected to grow at a CAGR of 19.6% from 2025 to 2031.

This report studies silicon carbide (SiC) power devices for new energy vehicles, including SiC MOSFET Module, SiC MOSFET Discrete and SiC diode. In automotive, currently the silicon carbide (SiC) power devices are mainly used in main drive inverters, On-Board Chargers, and DC/DC converters, etc.

Automotive is the largest market of silicon carbide (SiC) power devices, driven by demand from China, UAS, EU, and Japan. China is one of the world's largest automotive markets, and its growth potential remains high. In particular, high rates of growth for electric-powered vehicles make China one of the largest markets for electromobility.

Global new energy vehicles continue to grow rapidly. In 2023, the total sales of new energy vehicles in the world reached 14.65 million, a simultaneous increase of 35.4%. Among them, China's new energy vehicle sales reached 9.495 million, accounting for 64.8% of global sales. The production and sales of new energy vehicles have ranked first in the world for eight consecutive years. In 2023, the sales of new energy vehicles in the United States and Europe were 2.94 million and 1.46 million respectively, with year-on-year growth rates of 18.3% and 48.0% respectively.

LP Information, Inc. (LPI) ' newest research report, the "SiC Power Devices for New

Energy Vehicles Industry Forecast” looks at past sales and reviews total world SiC Power Devices for New Energy Vehicles sales in 2024, providing a comprehensive analysis by region and market sector of projected SiC Power Devices for New Energy Vehicles sales for 2025 through 2031. With SiC Power Devices for New Energy Vehicles sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world SiC Power Devices for New Energy Vehicles industry.

This Insight Report provides a comprehensive analysis of the global SiC Power Devices for New Energy Vehicles landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on SiC Power Devices for New Energy Vehicles portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global SiC Power Devices for New Energy Vehicles market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for SiC Power Devices for New Energy Vehicles and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global SiC Power Devices for New Energy Vehicles.

This report presents a comprehensive overview, market shares, and growth opportunities of SiC Power Devices for New Energy Vehicles market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Automotive Grade SiC MOSFET Module

Automotive Grade SiC MOSFET Discrete

Automotive Grade SiC SBD

Segmentation by Application:

Main Inverter

EV On-Board Chargers

DC/DC Converter

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

STMicroelectronics

Infineon

Wolfspeed

Rohm

onsemi

BYD Semiconductor

Microchip (Microsemi)

Mitsubishi Electric (Vincotech)

Semikron Danfoss

Fuji Electric

Navitas (GeneSiC)

Toshiba

Qorvo (UnitedSiC)

San'an Optoelectronics

Littelfuse (IXYS)

CETC 55

WeEn Semiconductors

BASiC Semiconductor

SemiQ

Diodes Incorporated

SanRex

Alpha & Omega Semiconductor

Bosch

KEC Corporation

PANJIT Group

Nexperia

Vishay Intertechnology

Zhuzhou CRRC Times Electric

China Resources Microelectronics Limited

StarPower

Yangzhou Yangjie Electronic Technology

Guangdong AccoPower Semiconductor

Changzhou Galaxy Century Microelectronics

Hangzhou Silan Microelectronics

Cisoid

SK powertech

InventChip Technology

Hebei Sinopack Electronic Technology

Oriental Semiconductor

Jilin Sino-Microelectronics

PN Junction Semiconductor (Hangzhou)

Key Questions Addressed in this Report

What is the 10-year outlook for the global SiC Power Devices for New Energy Vehicles market?

What factors are driving SiC Power Devices for New Energy Vehicles market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do SiC Power Devices for New Energy Vehicles market opportunities vary by end

market size?

How does SiC Power Devices for New Energy Vehicles break out by Type, by Application?

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