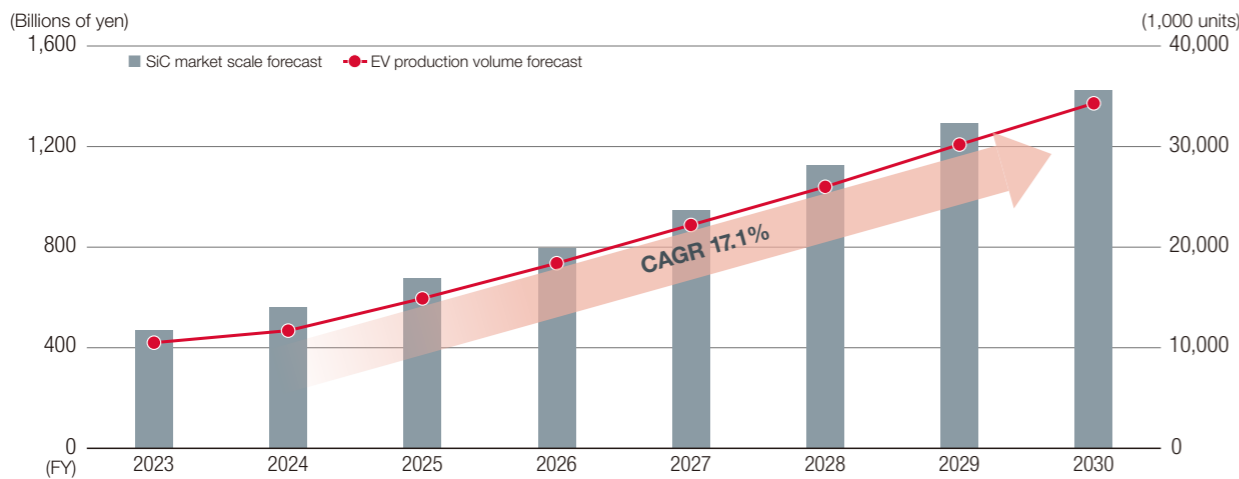


# Special Feature Helping Solve Social Issues through Further Advancement of SiC Power Devices

## Performance Improvements in SiC Power Devices Support the Shift to EVs

As the electrification of automobiles advances around the world, it has been pointed out that it feels like the growth in the market for electric vehicles (EV) is slowing down in some regions against a backdrop of reduced government subsidies in various countries and saturated demand in FY2023. However, we believe at ROHM that the shift to EVs will steadily advance over the medium- to long-term, and it will become an important driver for the realization of a decarbonized society. The adoption of SiC power devices with low power loss in inverters is essential for extending the travel distance while curtailing the increase in EV battery capacity. Because SiC power devices have a lower specific on resistance compared to Si devices and they demonstrate high performance even under high-temperature and high-voltage environments, their adoption especially in EVs is accelerating, and it is expected that they will come into wide use. In order to differentiate ourselves from our competitors going forward, ROHM will further raise its cost competitiveness and capture market share by increasing device performance and shifting to 8-inch SiC substrates.

EV Production Volume and SiC Market Scale Forecasts

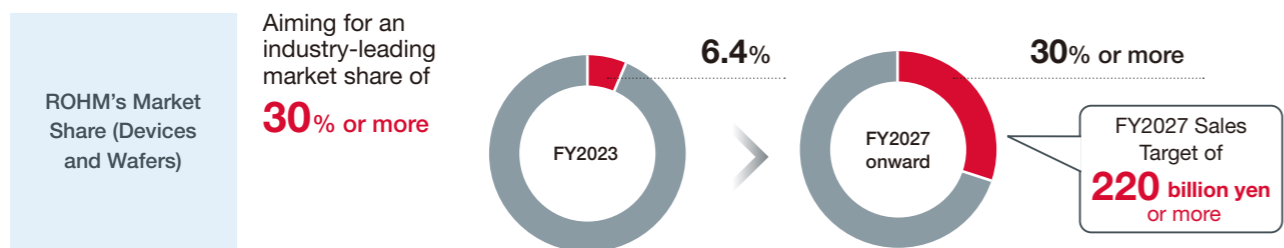


Source: SiC Market Scale Forecast Created by ROHM EV production volume forecast GlobalData Plc (forecast as of July 31, 2024) \*Foreign exchange rate: \$1 = ¥145

### ROHM's Position Within the SiC Market

Global SiC Sales Ranking	SiC Power Devices (including Modules) Sales Ranking/Market Share Forecast (2023)				SiC Wafer Sales Ranking/Market Share Forecast (2023)			
	Sales	Company name	Sales	Share of sales	Sales	Company name	Sales	Share of sales
1	...	STMicroelectronics	...	...	1	Wolfspeed	...	...
2	...	onsemi	...	...	2	Tankeblue	...	...
3	...	Infineon Technologies	...	...	3	Coherent	...	...
4	...	Wolfspeed	...	...	4	SICC	...	...
<b>5</b>	<b>186</b>	<b>ROHM</b>	<b>5.0%</b>		<b>5</b>	<b>SiCrystal (ROHM Group)</b>	<b>131</b>	<b>10.3%</b>

Source: Power SiC report, Yole Intelligence, 2024.



### Contributing to the reduction of GHG emissions, evolving our strengths, and competing based on speed

We perceive SiC power devices as products that will powerfully drive the transition to a decarbonized society. The application of SiC power devices in EVs is receiving the most attention and is the focus of our efforts. To further expand the market, we are advancing the development of high-voltage SiC power devices used in a broad range of applications such as solar and wind power generation, railways, and electric aircraft. As the competitive environment in the SiC market intensifies, we can list three strengths that ROHM possesses. The first strength is our unrivaled device development technology, the second is our integrated production system which enables us to develop and manufacture substrates, devices, and packages in-house, and the third is our possession of analog IC technology that drives and controls power devices such as isolated gate driver ICs as well as our ability to offer integrated proposals of power devices and analog ICs. Within the next five to ten years, Chinese companies are expected to rise to prominence, so in order to compete with them, we will further accelerate the evolution of device performance, which is our greatest strength. (→ P55 Progress of the Medium-Term Management Plan for Power Devices)

While there are immediate concerns about the impact of the slowing EV growth rate, we believe that the global movement toward a decarbonized society will not change over the medium- to long-term and anticipate that it will definitely expand. To survive under such circumstances, the most important thing is overwhelming other companies with speed. Our goal is to increase development speed based on ROHM's integration of knowledge across a wide range of SiC materials, devices, and equipment as well as our accumulation of knowledge built up thus far to aim for a market share of 30% or more.



**Dr. Kazuhide Ino**  
Member of the Board, Managing Executive Officer, in charge of Power Device Business

### Become a leading manufacturer of 8-inch SiC wafers with our strong unity "ONE ROHM"

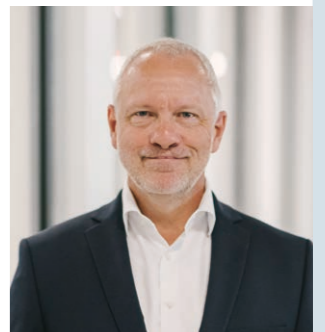
SiCrystal, which became part of the ROHM Group in 2009, has more than 25 years of experience in the entire process chain from SiC crystal growing to the finished substrate. We have built up a wealth of knowledge that includes not only process expertise but also machine technology, and we are highly competitive due to the crystal growth systems we have developed.

Our ability to respond quickly to changing market requirements through in-house substrate production in close cooperation with ROHM is a major advantage. ROHM, on the other hand, benefits from SiCrystal as a reliable source of substrates, which allows to cover even a large demand. Our "ONE ROHM" philosophy and this strong cohesion make us unique among substrate manufacturers.

We have been massively expanding our production capacity of 8-inch SiC substrates, and we are continuing to do so in order to meet the rapidly growing demand for high-quality 8-inch SiC substrates. At the same time, we are steadily improving the sub-processes and thus the quality of the substrates as well as the efficiency of our 8-inch production lines.

In recent years, Chinese substrate manufacturers have started to enter the market. In order to remain competitive, it is crucial for us to produce large quantities of 8-inch SiC substrates with consistently high quality at attractive prices under sustainable conditions. The 8-inch market is still at the very beginning, and we will certainly do our utmost to remain one of the leading manufacturers.

Our vision is to be a globally acting company with multiple locations around the world, being the preferred vendor for SiC substrates. With our business we want to actively contribute to a sustainable, carbon neutral future for our society, being a profitable company satisfying its shareholders.



**Dr. Robert Eckstein**  
President and CEO, SiCrystal GmbH

### Target for SiC Sales and the Status of the Pipeline and Design Wins

**Sales target 110 billion yen or more (FY2025) and 220 billion yen or more (FY2027)**

\*Converted at a rate of \$1 = ¥145

For the SiC power devices business, we have set a sales target of 110 billion yen or more in FY2025 and 220 billion yen or more in FY2027. We have a total pipeline (projects under discussion with customers) of approximately 700 billion yen from FY2025 to FY2027, and with respect to design wins (projects where designs have been adopted by customers), we are receiving strong demand from China, Europe, the Americas, and Japan without relying on a particular region. We have already confirmed design wins with over 130 companies and are expanding our business worldwide in a well-balanced manner.

FY2027 SiC Power Devices Business Design win breakdown by region (monetary basis)

