

JOINT PRESS RELEASE

***Mitsubishi Electric Europe B.V. and Siemens Mobility  
Strengthen collaboration on high-voltage SiC technology for next-generation  
railway systems***

**Munich/Ratingen, June 05, 2026 –**

Mitsubishi Electric Europe B.V., Semiconductor Division, and Siemens Mobility GmbH, Business Unit Rolling Stock, are strengthening their collaboration on high-voltage silicon carbide (SiC) technology for railway traction applications with the signing of a long-term agreement.

Building on the Memorandum of Understanding (MoU) signed in 2022 and leveraging their complementary strengths, both companies are advancing the development, qualification, and industrialization of SiC-based power modules to support more energy-efficient and high-performance railway drive systems. The collaboration provides a framework for ongoing technical exchange and the evaluation of next generation SiC solutions for future railway platforms.

**Advancing High-Voltage SiC Technology for Railway Applications**

High-voltage SiC technology has already demonstrated its capabilities in railway applications. Traction systems equipped with SiC-based modules are operating in regular passenger service in selected Siemens Mobility projects, contributing to improved efficiency, lower energy consumption, and reliable system performance under real-world conditions.

Based on these operational experiences and a well-established, reliable supply relationship, Siemens Mobility and Mitsubishi Electric Europe B.V., Semiconductor Division, continue to explore the application of advanced SiC module technologies in upcoming railway projects. Activities include the qualification of new module generations, optimization of system integration, and validation under demanding operating conditions typically required for high-capacity commuter and regional rail services.

**Continuous Innovation in SiC Power Modules**

Mitsubishi Electric's latest generation of high-voltage SiC power modules incorporates ongoing enhancements, including improved semiconductor performance, reduced switching losses, and

increased robustness. These developments support the continued evolution of traction systems towards higher efficiency, increased power density, and enhanced lifecycle performance.

Both companies emphasize that the deployment of semiconductor technologies in railway applications follows rigorous qualification processes and project-specific requirements. The collaboration is embedded in Siemens Mobility's broader sourcing and engineering approach, ensuring flexibility, reliability, and long-term availability for railway customers.

Through their continued collaboration in complementary areas, Mitsubishi Electric Europe B.V., Semiconductor Division, and Siemens Mobility are helping to advance SiC technology as a key enabler of next-generation sustainable railway systems.

### **Continuous advancements in Mitsubishi Electric's high-voltage SiC module technology**

Mitsubishi Electric's FMF750DC-66A Full SiC module, used in earlier railway applications, has demonstrated stable and reliable performance in daily passenger operations. Building on this foundation, the new FMF800DC-66BEW Unifull™ Full SiC Power Module represents the next step in Mitsubishi Electric's continuous SiC technology evolution and is currently being qualified for demanding railway operating conditions, as typically required for high-capacity commuter and regional rail services.

The updated module incorporates further developments in semiconductor and module design, including a new chip set, reduced switching losses, and increased current capability. These enhancements support continued improvements in traction system efficiency and operational performance. In this way, the FMF800DC-66BEW builds on the established design principles of its predecessor while further advancing SiC technology for future railway applications.



Mitsubishi Electric's 3300V Full SiC  
Unifull™ Power Module

### **About Mitsubishi Electric**

Guided by its corporate philosophy, Mitsubishi Electric Corporation (TOKYO: 6503) places sustainability at the core of its operations and values stakeholder trust—encompassing society, customers, shareholders and employees. In pursuing profitability, capital efficiency and growth, Mitsubishi Electric works closely alongside customers to develop value-added solutions that address today’s complex challenges while enhancing the company’s sustainable corporate value. Founded in 1921, Mitsubishi Electric has over a century of experience in delivering reliable, high-quality products and solutions. With over 200 group companies and approximately 150,000 employees worldwide, the company is a recognized global leader in manufacturing, marketing and selling electrical and electronic equipment and systems across a broad range of sectors, including public utility systems, energy systems, defense and space systems, factory automation systems, automotive equipment, building systems, air conditioning systems & home products, digital innovations, and semiconductor & devices.

Mitsubishi Electric recorded consolidated revenue of 5,894.7 billion yen (U.S.\$ 36.8 billion\*) in the fiscal year that ended on March 31, 2026. For more information, please visit <https://www.mitsubishielectric.com/en/>

Mitsubishi Electric Europe B.V is a wholly owned subsidiary of Mitsubishi Electric Corporation; helping customers meet their business challenges through providing innovative technologies and high-quality products and solutions. For more information visit <https://emea.mitsubishielectric.com>

\*JPY 160=USD 1, the approximate rate on the Tokyo Foreign Exchange Market on March 31, 2026

### **About Siemens Mobility**

Siemens Mobility is a separately managed company of Siemens AG. As a leader in intelligent transport solutions for more than 175 years, Siemens Mobility is constantly innovating its portfolio. Its core areas include rolling stock, rail automation and electrification, a comprehensive software portfolio, turnkey systems as well as related services. With digital products and solutions, and the use of industrial AI, Siemens Mobility is enabling mobility operators worldwide to make their infrastructure intelligent, increase value sustainably over the entire lifecycle, enhance passenger experience, and guarantee availability. In fiscal year 2025, which ended on September 30, 2025, Siemens Mobility posted revenue of €12.4 billion and employed around 43,400 people worldwide. Further information is available at: [www.siemens.com/mobility](http://www.siemens.com/mobility)

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