

Siemens and Infineon leverage silicon carbide technology to advance electrical protection in data centers and factories

- **Infineon and Siemens collaborate to drive semiconductor circuit breaker technology for data centers, production facilities and battery storage systems**
- **Semiconductor circuit breakers are fast-acting, semiconductor-based electronic devices that protect electrical circuits and components from damage caused by short circuits or overloads**
- **Infineon's silicon carbide power modules enhance the efficiency, power density and reliability of the Siemens circuit breaker**

Infineon Technologies AG (FSE: IFX / OTCQX: IFNNY) and Siemens AG are partnering to advance electrical protection and ensure reliable operations in data centers, production facilities and battery storage systems. As part of the collaboration, Infineon will supply silicon carbide (SiC) power modules to Siemens for use in its SENTRON 3QD2 semiconductor circuit breakers. This will enhance the efficiency, power density and reliability of Siemens' protection solution.

"AI data centers and factories are becoming increasingly electrified and complex. This increases vulnerability to electrical failures and drives the demand for more sustainable, efficient and reliable power distribution systems," said Andreas Weisl, Executive Vice President & Chief Sales Officer of Industrial and Infrastructure at Infineon. "By combining our advanced silicon carbide technology with Siemens' expertise in power distribution,

SIEMENS



Siemens AG
Werner-von-Siemens-Straße 1
80333 Munich
Germany

Infineon Technologies AG
Am Campeon 1-15
85579 Neubiberg
Germany

we are addressing this demand to ensure fast, safe and reliable operations in power-critical environments."

A semiconductor circuit breaker, also known as a solid-state circuit breaker, is an electronic device that protects electrical circuits from damage caused by excessive current flow, such as short circuits or overloads. Unlike traditional electromechanical circuit breakers, which rely on mechanical parts to interrupt the flow of current and typically operate on the millisecond scale, the Siemens SENTRON 3QD2 uses semiconductor components and smart protection algorithms to perform this function. This enables ultra-fast interruption in the microsecond range, up to 1,000 times faster than conventional systems. This capability is essential for direct current (DC) grids and offers a significant increase in protection and system availability, which is crucial in applications like industrial manufacturing and AI data centers, where even a slight delay can cause costly downtime, data loss or expensive hardware damage in the event of electrical failures.

"Our new direct current portfolio offers innovative solutions that not only improve energy efficiency but also enable the development of resilient, future-proof infrastructure," said Markus Grabmeier, CEO Electrical Products at Siemens Smart Infrastructure. "Direct current applications can decrease energy consumption and substantially cut material usage. By integrating batteries, peak power can also be significantly reduced. With this approach, we are making a decisive contribution to the decarbonization of our industries, while reinforcing our commitment to developing technologies that deliver tangible value to our customers and society."

The collaboration addresses the increasing demands of power-critical applications, where speed, precision and reliability are essential. By integrating Infineon's 62 mm CoolSiC™ MOSFET module 1200 V into Siemens' advanced protection concepts, the companies are contributing to more resilient, efficient and future-ready power infrastructure. This joint approach supports the growing adoption of DC grids and highly electrified environments, helping industrial and infrastructure operators meet rising performance and reliability requirements.

A demo showcase of the Siemens SENTRON 3QD2 semiconductor circuit breaker will be exhibited at the Infineon booth (hall 7, booth 470) at PCIM Europe 2026 in Nuremberg from 9 to 11 June.

Infineon at PCIM Europe 2026

PCIM Europe will take place in Nuremberg, Germany, from 9 to 11 June 2026. Infineon will present its products and solutions for decarbonization and digitalization in hall 7, booth 470. For press inquiries, please contact media.relations@infineon.com. Industry analysts interested in a briefing can email MarketResearch.Relations@infineon.com. Information about Infineon's PCIM 2026 show highlights is available at www.infineon.com/pcim.

This press release as well as press pictures are available [here](#).

For more information on Siemens Smart Infrastructure, please see [here](#).

Contact for journalists:

Siemens Smart Infrastructure

Christian Wilson

Phone: +49 172 1385608; E-mail: christian_stuart.wilson@siemens.com

Infineon Technologies AG

Veronika Seifried

Phone: +49 89 23461662; E-mail: veronika.seifried@infineon.com

Siemens Smart Infrastructure (SI) is shaping the market for intelligent, adaptive infrastructure for today and the future. It addresses the pressing challenges of urbanization and climate change by connecting energy systems, buildings, and industries. SI provides customers with a comprehensive end-to-end portfolio from a single source – with products, systems, solutions, and services from the point of power generation all the way to consumption. With an increasingly digitalized ecosystem, it helps customers thrive and communities progress while contributing toward protecting the planet. To protect this journey, we foster holistic cybersecurity to ensure secure and reliable operations. Siemens Smart Infrastructure has its global headquarters in Zug, Switzerland. As of September 30, 2025, the business had around 79,400 employees worldwide.

Siemens AG (Berlin and Munich) is a leading technology company focused on industry, infrastructure, mobility, and healthcare. The company's purpose is to create technology to transform the everyday, for everyone. By combining the real and the digital worlds, Siemens empowers customers to accelerate their digital and sustainability transformations, making factories more efficient, cities more livable, and transportation more sustainable. A leader in industrial AI, Siemens leverages its deep domain know-how to apply AI – including generative AI – to real-world applications, making AI accessible and impactful for customers across diverse industries. Siemens also owns a majority stake in the publicly listed company Siemens Healthineers, a leading global medical technology provider pioneering breakthroughs in healthcare. For everyone. Everywhere. Sustainably.

Joint Press Release

by Siemens and Infineon

In fiscal 2025, which ended on September 30, 2025, the Siemens Group generated revenue of €78.9 billion and net income of €10.4 billion. As of September 30, 2025, the company employed around 318,000 people worldwide on the basis of continuing operations. Further information is available on the Internet at www.siemens.com.

About Infineon

Infineon Technologies AG is a global semiconductor leader in power systems and IoT. Infineon drives decarbonization and digitalization with its products and solutions. The Company had around 57,000 employees worldwide (end of September 2025) and generated revenue of about €14.7 billion in the 2025 fiscal year (ending 30 September). Infineon is listed on the Frankfurt Stock Exchange (ticker symbol: IFX) and in the USA on the OTCQX International over-the-counter market (ticker symbol: IFNNY).

Further information is available at www.infineon.com

This press release is available online at www.infineon.com/press

Follow us: [Facebook](#) - [LinkedIn](#)