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Mitsubishi Electric Unveils NVIDIA AI Infrastructure-compatible Reference Designs for Next-generation AI Data Centers

Optimizing power supply and cooling from chip-to-grid to meet growing AI demands

TOKYO, September 24, 2026 – [Mitsubishi Electric Corporation](https://www.mitsubishielectric.com) (TOKYO: 6503) announced today that its U.S. subsidiary Mitsubishi Electric Power Products, Inc. released Chip-to-Grid¹ DSX² Reference Designs³ to support adoption of NVIDIA Corporation's Vera Rubin NVL72⁴ and future next-generation NVIDIA AI infrastructure in U.S. data centers. Going forward, Mitsubishi Electric will use the reference designs to develop solutions for next-generation AI data centers.

Mitsubishi Electric's Chip-to-Grid DSX Reference Designs encompass and coordinate systems from grid connection to chip power supply, and direct-rack to facility-level cooling. This comprehensive solution integrates Mitsubishi Electric's proven power transmission and distribution equipment with next-generation power supply that incorporates cutting-edge technologies as well as cooling systems. The designs also offer reliable scalability to support future gigawatt-class data centers.⁵

Specifically, data center sites will be equipped with on-site power generation and battery energy storage systems (BESSs). During normal operation, this solution will minimize a site's reliance on the grid, and in the event of a grid failure, the facility will switch to autonomous operation on its own microgrid, stabilizing power and operation. In addition, the designs support both conventional 415/480VAC and 800VDC power distribution within the data center. Furthermore, by combining with a dual-loop cooling system⁶ suitable for high-density AI loads, the solution maximizes power efficiency.

Mitsubishi Electric's solution, which supports the optimization of data center power operations, is one of the company's key strategic initiatives. In recent years, the scope of AI utilization has expanded from generative

¹ Concept for integrated optimization of everything from power delivery to chips such as Graphics Processing Units (GPUs) to power transmission, distribution, reception, storage, and cooling.

² A platform and framework for integrating and streamlining the design, simulation, and operation of AI data centers.

³ Standard configurations and design models that have been verified and organized in advance to ensure reliability and scalability.

⁴ NVIDIA's next-generation rack-scale AI supercomputing system, integrating 72 Rubin GPUs and 36 Vera CPUs.

⁵ Large-scale data centers that consume gigawatt-class power.

⁶ Cooling architecture that combines direct liquid cooling to directly cool the chip and air cooling to cool other parts.

AI, which has been widely adopted, to agent AI and physical AI. Consequently, data centers are expected to expand rapidly as a critical component of societal infrastructure. However, they must balance this demand with high power efficiency, reliability and scalability. Data center operators face major challenges in securing power, managing thermal conditions, and ensuring stable operations to meet the increasing growth of AI.

Going forward, Mitsubishi Electric will leverage its new reference designs to address data center challenges and expand its business in the global market by offering high-value solutions that integrate with the company's diverse range of data center systems. Through this initiative, Mitsubishi Electric will support AI infrastructure essential to future societies, thereby contributing to its own sustainable growth.

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About Mitsubishi Electric Corporation

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 www.MitsubishiElectric.com

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