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FOR IMMEDIATE RELEASE **No. 3955**

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Mitsubishi Electric and Taikisha Sign MoU for Collaboration in Cooling Solutions for AI Data Centers

Targeting AI data-center energy efficiency amid rising power consumption and heat generation



(from left) Masafumi Ando, Executive Officer, Group President, Living Environment & Digital Media Equipment Group, Mitsubishi Electric Corporation, and Yoshihiro Matsuda, Director, Managing Corporate Officer, Chief Executive, Corporate Planning Headquarters, Taikisha Ltd.

TOKYO, November 27, 2026 – Mitsubishi Electric Corporation (TOKYO: 6503) announced today that it has signed a memorandum of understanding (MoU) on November 26, 2026, with Japan-based Taikisha Ltd. to collaborate on two-phase liquid cooling solutions for AI data centers. Both companies have equity stakes in ZutaCore Ltd., a global leader in two-phase liquid cooling technology for high-performance AI data centers. Under the MoU, Mitsubishi Electric and Taikisha will conduct proof-of-concept demonstrations as well as develop and commercialize reference designs for highly efficient cooling solutions that utilize ZutaCore's technology, aiming to improve the energy efficiency and reliable operation of AI data centers.

The rapid adoption of generative AI has increased the demand for AI data centers. However, the growing density and heat generation of high-performance servers have significantly increased power consumption and

cooling requirements. As these trends continue, improving cooling efficiency remains a critical challenge. The focus is shifting from conventional air-cooling systems, which cool entire server rooms, to liquid-cooling technologies that directly cool heat-generating components. Two-phase liquid cooling is attracting particular interest because it utilizes the latent heat of fluid vaporization[1] to efficiently remove heat. This technology is well suited for high-density, high-heat-load servers and offers superior cooling performance as well reduced energy consumption.

This collaboration will combine Mitsubishi Electric's expertise in developing and manufacturing cooling equipment cultivated through its air-conditioning and refrigeration business with Taikisha's strengths in piping and facility engineering related to heating, ventilation and air conditioning (HVAC), sanitation and paint-finishing systems. Through joint demonstrations, reference design development and cooling solution commercialization supported with ZutaCore's advanced technology, Mitsubishi Electric and Taikisha aim to expand their businesses focused on AI data-center energy efficiency and operational reliability.

About Taikisha Ltd.

Taikisha is an engineering company engaged in the HVAC and sanitary systems business as well as the paint-finishing system business. In the HVAC and sanitary systems field, the company provides design and construction services for a wide range of facilities, including offices, factories, research facilities and data centers.

About ZutaCore Ltd.

ZutaCore is a company that develops direct-to-chip two-phase liquid cooling technology for data centers. Its technology utilizes fluid phase change to efficiently remove heat from high-temperature components, enabling support for increasingly powerful servers while reducing cooling-related power consumption.

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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

[1] Latent heat absorbed from the surrounding environment when a fluid phase changes from a liquid to a gas.