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Mitsubishi Electric to Exhibit at Carbon Capture Technology World Expo 2026

Introducing initiatives for CO₂ capture, utilization, and removal, targeting net-negative emissions



Rendition of the booth

TOKYO, August 25, 2026 – [Mitsubishi Electric Corporation](https://www.mitsubishi-electric.com) (TOKYO: 6503) announced today that it will present its carbon dioxide capture and utilization (CCU) and carbon dioxide removal (CDR) initiatives at [Carbon Capture Technology World Expo 2026](#) at Hamburg Messe in Germany from October 20 to 22. The company’s first-ever exhibit at this Expo will be located in Booth 4B40, Hall B4L and will feature panel displays and video presentations themed “Beyond Carbon Neutrality: Towards Net-Negative Emissions.”

Mitsubishi Electric places sustainability at the cornerstone of its management and is accelerating “Trade-On” (mutual benefits) initiatives that balance addressing social challenges and growing its business. Mitsubishi Electric’s comprehensive and strategic sustainability initiatives transcend the boundaries of existing businesses and organizations to advance technological innovation under the corporate materialities “Realize a sustainable global environment” and “Promote innovation for sustainability.”

In the field of carbon dioxide capture, utilization and storage (CCUS), which contributes significantly to emissions reduction, Mitsubishi Electric is researching and developing carbon recycling technologies that convert captured CO₂ into valuable products, such as chemicals and fuels. The company is placing a special

focus on CCU solutions aimed at “local production for local consumption.” The goal is to capture and utilize CO₂ on-site at emission sources, such as small- and medium-scale factories, where large-scale underground storage is difficult to apply from the perspective of capital investment.

In the CDR field, Mitsubishi Electric is developing [direct ocean capture \(DOC\)](#) solutions that leverage the ocean’s natural ability to capture and remove CO₂ from the atmosphere. The goal is to contribute to carbon neutrality across society by using CDR to achieve net-negative emissions, whereby the amount of CO₂ removed exceeds the amount already emitted into the atmosphere. Such initiatives are essential because they address CO₂ that has already been released into the atmosphere, as well as unavoidable emissions and sources that are difficult to capture with CCUS.

Through these integrated efforts, Mitsubishi Electric aims to achieve carbon neutrality and eventually negative emissions.

Exhibit Details

1) Carbon Recycling: CCU Solution for “Local Production for Local Consumption”

Mitsubishi Electric’s CCU solution recovers and purifies CO₂ emitted from factories and other facilities using technologies that convert the CO₂ into valuable products, such as chemicals and fuels. Implementation is possible within facility premises or in surrounding communities. Three such initiatives will be presented with panel displays:

- [A demonstration to capture and purify CO₂ emitted from a gas boiler for use in beer production at a facility in Taiwan.](#)
- A demonstration to capture CO₂ emitted from a gas boiler and synthesizing it into methane to fuel a gas boiler in Japan.
- A study to commercialize the synthesis of urea from recovered CO₂ and ammonia for local agricultural use.

2) CO₂ Removal: Direct Ocean Capture (DOC)

DOC is a technology that extracts dissolved inorganic carbon¹ from seawater, thereby lowering the seawater CO₂ concentration and promotes the uptake of atmospheric CO₂ by the ocean, ultimately removing CO₂ from the atmosphere. Mitsubishi Electric will present DOC system jointly developed with VTT Technical Research Centre of Finland Ltd.

The exhibit will also present an envisioned DOC business model. Mitsubishi Electric, in addition to pursuing a durable carbon credits business, is exploring CCU opportunities to utilize captured CO₂, and is also working to diversify its revenue streams by recovering valuable resources from seawater during CO₂ capture and developing associated value chains.

Mitsubishi Electric will introduce its DOC initiatives at the Expo’s Open Theatre Forum keynote with VTT on October 22.

¹ Dissolved inorganic carbon (DIC) is the total amount of inorganic carbon species, such as dissolved CO₂, carbonic acid, bicarbonate ions, and carbonate ions, dissolved in water.

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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