

February 24, 2022

Launch CCU Verification Test Jointly with Yokohama City and MHI Group

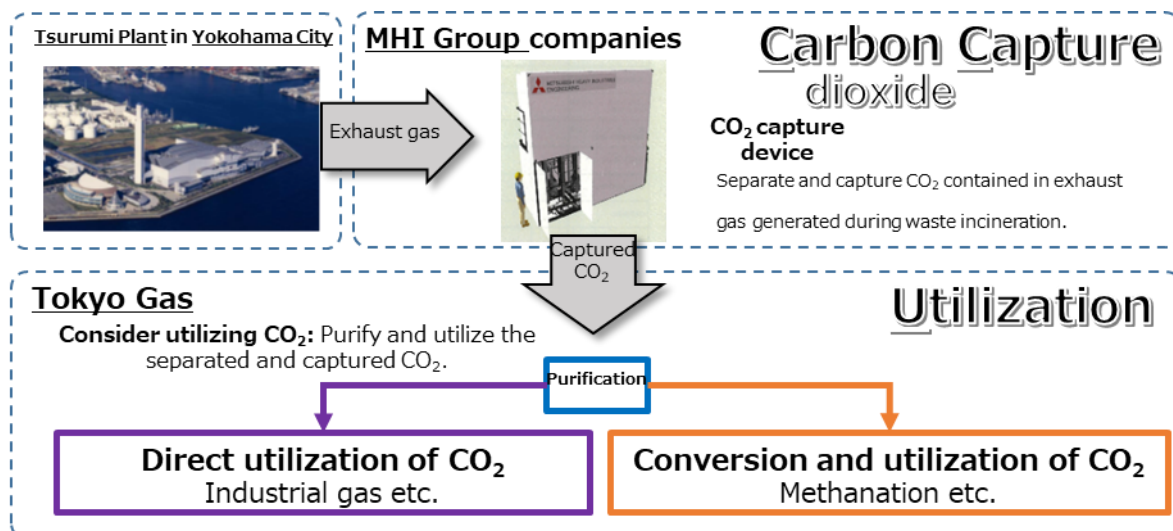
Tokyo Gas Co., Ltd.

Tokyo Gas Co., Ltd. (President: UCHIDA Takashi; "Tokyo Gas"), Yokohama City and the Mitsubishi Heavy Industries Group¹ (the MHI Group) have agreed to jointly launch the verification test from January 2023 toward establishment of the technology that separates and captures carbon dioxide (CO₂) contained in the exhaust gas released from the Tsurumi Plant of the Resources and Waste Recycling Bureau, City of Yokohama, (the waste to energy plant) and to utilize the CO₂ as a resource (CCU² technology).

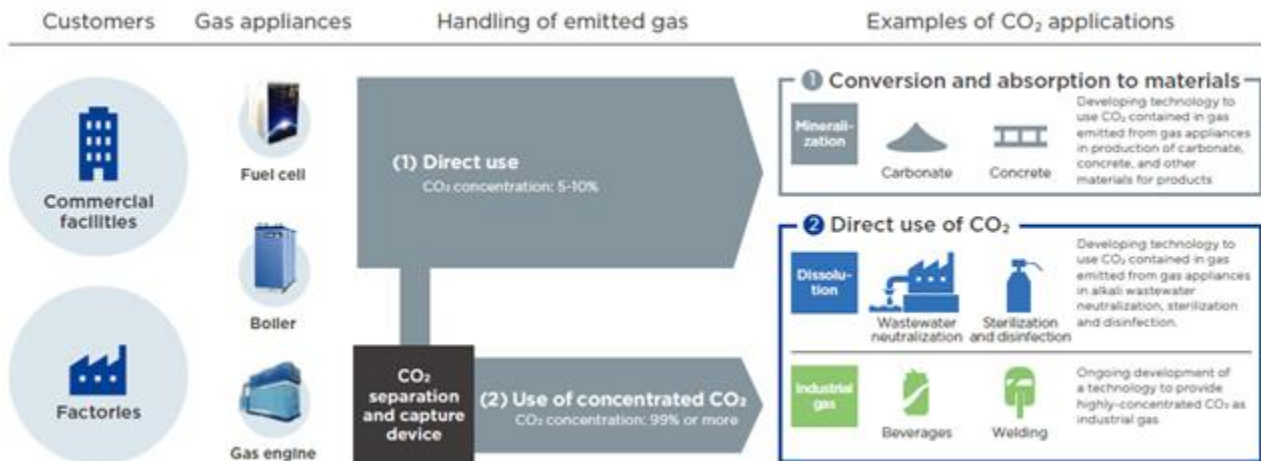
In the verification test, the organizations will conduct examination for establishment of CCU technology that separates and captures CO₂ from the exhaust gas emitted from the waste to energy plant by technologies of the MHI Group and converts the CO₂ into not only a raw material for methanation³ but an industrial gas and other versatile products. The verification test is part of initiatives based on the cooperation agreement⁴ concluded between Tokyo Gas and Yokohama City in January 2022.

Tokyo Gas is working on development of CCU technologies, such as direct utilization of CO₂ as an industrial gas and other products and conversion of CO₂ into concrete⁵, carbonate⁶ and other resources. Going forward, we will aim to commercialize the technology, moving forward with verification tests at the site of our customers and other processes.

Image of verification tests



CCU technology development at Tokyo Gas



In its Management Vision, Compass2030, the Tokyo Gas Group sets forth “Establishment of a value co-creation ecosystem⁷” and “Leadership in the effort to achieve Net-Zero CO₂.” Based on the Vision, the Group will continue to create and offer various values together with its customers, business partners and society and will contribute to achieving a decarbonized society while working on promotion of digital solutions, expansion of partner companies and other initiatives.

¹: [Mitsubishi Heavy Industries Engineering, Ltd. and Mitsubishi Heavy Industries Environmental & Chemical Engineering Co.,Ltd.](#)

²: Abbreviation of Carbon dioxide Capture and Utilization

³: [Launch Methanation Verification Test in FY2021 \(announcement on July 7, 2021\)](#)

⁴: [Yokohama City and Tokyo Gas Concluded a Cooperation Agreement toward Verification Tests of Methanation \(announcement on January 18, 2022\) \(in Japanese only\)](#)

⁵: [World's 1st! Commence Manufacturing of CO₂-absorbing Concrete that Uses Exhaust Gas Emitted During the Use of Cit Gas Devices \(announcement on July 7, 2021\)](#)

⁶: [Development of onsite CO₂ recycling technology ~The first technology in Japan to produce potassium carbonate from gas emissions~ \(announcement on September 28, 2021\)](#)

⁷: Business environment in which many companies combine their technologies, expertise and knowledge in their specific areas of strength in order to create new value