

Osaka Gas to Collaborate with Shell in Developing Decarbonization Solutions Including Methanation, Hydrogen and CCUS

June 6, 2022
Osaka Gas Co., Ltd.

Osaka Gas Co., Ltd. (Osaka Gas) has signed a non-binding memorandum of understanding with Shell Eastern Petroleum (Pte.) Limited (Shell) for a collaboration to examine a wide range of solutions to decarbonization, including methanation¹, hydrogen, bio methane, and carbon dioxide (CO₂) capture, utilization, and storage. In addition, Osaka Gas has reached agreement with Shell and Tokyo Gas Co., Ltd. (Tokyo Gas) for a tripartite joint study on methanation.

The agreement between Shell and Osaka Gas includes assessing the potential of clean hydrogen², clean ammonia², and bio methane, as well as CO₂ capture, utilization, and storage, both domestically and internationally. The three-party collaboration with Shell and Tokyo Gas will explore the possibilities of synthetic methane (syngas) as a decarbonization solution.

Under the Carbon Neutral Vision announced in January 2021, the Daigas Group aims to fulfill its net zero target by 2050 with solutions for carbon neutrality, such as methanation-based syngas and increased renewable energy in its power portfolio. As a milestone toward the 2050 goal, the Group has set a target for 2030 of achieving 1%³ syngas in the gas network.

¹ Technology to synthesize methane, a main component of natural gas, from hydrogen and CO₂

² Meaning blue and green hydrogen and blue and green ammonia in this article

³ Approximately 60 million m³ (on a fiscal 2020 gas sales volume basis)

■ Company Overview

Name	Shell Eastern Petroleum (Pte.) Limited
Location	Singapore
Established	August 1960