

October 10, 2024
The Kansai Electric Power Co., Inc.
Cosmo Oil Co., Ltd.
Cosmo Energy Holdings Co., Ltd.

KEPCO and Cosmo Oil Win Bid to Conduct Engineering Design Work of an Advanced CCS Project in FY2024

The Kansai Electric Power Co., Inc. (hereafter, “KEPCO”) and Cosmo Oil Co., Ltd. (hereafter, “Cosmo Oil”), together with Kyushu Electric Power Co., Inc., The Chugoku Electric Power Co., Inc., Electric Power Development Co., Ltd., Mitsui & Co., Ltd., Resonac Corporation, and Mitsubishi UBE Cement Corporation, on October 8 have won a bid to conduct engineering design work for the CCS project southern Offshore Peninsular Malaysia, following a public call for bids by the Japan Organization for Metals and Energy Security (JOGMEC) to select Advanced CCS Projects for FY2024.

KEPCO, Cosmo Energy Holdings Co., Ltd., and Cosmo Oil conducted joint studies toward the establishment of a CCS¹ value chain in the Sakai-Semboku area.

[【Press release issued on October 13, 2023】](#)

Through this contracted research work, KEPCO and Cosmo Oil will carry out engineering design work across the CCS value chain, which encompasses the separation and capture of carbon dioxide (CO₂) emitted from facilities operated by the two groups in the Sakai-Semboku area—namely KEPCO’s Sakaiko Power Station and Cosmo’s Sakai Refinery—through to joint liquefaction and storage at the Sakaiko Power Station, and subsequent shipment of captured CO₂ from Cosmo shipping piers to storage sites. The joint study of liquefaction, storage, and shipping facilities by the two groups will enable the design of a larger and more efficient facility.

The two groups will conduct studies toward the establishment of an area-wide CCS value chain, with a view to future cooperation with other business operators that have CO₂ emission sources² in the Sakai-Semboku area, thereby contributing to the realization of a zero-carbon society.

1. CCS (Carbon capture and storage) is a technology that captures CO₂ from exhaust gas and stores it underground, etc.
2. Factories, power plants, and other business sites that emit CO₂.

(End)

Appendix: Project Overview

Overview of Contracted Research Work Associated With
FY2024 “Engineering Design Work for Advanced CCS Projects”

1. Name of contracted project

Outsourcing related to “Engineering Design Work for Advanced CCS Projects”

2. Contracted work term

October 2024 – March 2025

3. Purpose of contracted project

In 2023, JOGMEC conducted feasibility studies on the separation, capture, transportation, and storage of CO₂ for advanced projects that could serve as examples for establishing business models that can be deployed across the nation, with the aim of starting CCS operations by 2030.

In addition to feasibility studies, this project will also include engineering design work across the entire CCS value chain.

4. Scope of contracted project

Engineering design work across the CCS value chain

- Work related to the separation and capture of CO₂
- Work related to the transportation of CO₂
- Work related to the storage of CO₂
- Studies related to the entire CCS value chain

<Conceptual diagram of the CCS value chain>

