



June 13, 2023

Electric Power Development Co., Ltd.
ENEOS Corporation
JX Nippon Oil & Gas Exploration Corporation

Selection of Candidate Project for "Study on Implementation of Japan's Advanced CCS Project" in FY2023

Electric Power Development Co., Ltd. (President: Watanabe Toshifumi, "J-POWER"), ENEOS Corporation (President: Saito Takeshi, "ENEOS") and JX Nippon Oil & Gas Exploration Corporation (President: Nakahara Toshiya) have jointly been selected by Japan Organization for Metals and Energy Security (Chairman & CEO: Ichiro Takahara) as a candidate for the "Study on the Implementation of Japan's Advanced CCS <Note 1> Project" in FY2023.

The study is to conduct design work related to CO₂ capture, transport, and storage as well as reservoir evaluation, as a part of a study on the implementation of advanced CCS projects that assumes the start of CO₂ storage in FY2030 or earlier.

The three companies are jointly working on the possibility of starting a CCS project to capture, transport, and store CO₂ from J-POWER's thermal power plants and ENEOS' refineries in western Japan by FY2030. In February 2023, the three companies have established "West Japan Carbon dioxide Storage Survey Co., Ltd. " <Note 2> to promote preparations for commercialization, including exploration and evaluation for the selection of candidate sites for CO₂ storage.

Once the study is officially adopted, the three companies will study cost reduction through optimization of facilities related to capture, transport, and storage, improve the accuracy of project planning through concrete design work, and evaluate reservoirs, based on the results of feasibility studies to date.

Through the study, the three companies aim to contribute to the achievement of Japan's greenhouse gas emission reduction targets while ensuring stable energy supply by implementing Japan's first full-scale CCS value chain <Note 3> in FY2030 (announced on May 10, 2022 <Note 4>).

Note 1: CCS stands for Carbon dioxide Capture and Storage

Note 2: "Japan's first full-scale CCS: ENEOS, JX and J-POWER to establish joint venture for feasibility study of domestic CCS storage projects" released on January 26, 2023

https://www.jpowers.co.jp/english/news_release/pdf/news230126e.pdf

Note 3: Value chain consisting of the separation, capture, transportation, injection and storage of CO₂.

Note 4: "ENEOS and J-POWER collaborate on carbon neutralization of energy supply" released on May 10, 2022

https://www.jpowers.co.jp/english/news_release/pdf/news220510e.pdf

<Outline of CCS project plan in the study>

Emission Sources	J-POWER thermal power plants and ENEOS refineries in western Japan
Transport Method	Vessels and pipelines
Candidate of Storage	Off the northern to western in Kyushu (offshore saline aquifers)
Storage Volume	3 million tons/year