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Commencement of CO₂ Injection at the onshore oil field, Indonesia

Japan Oil, Gas and Metals National Corporation (“JOGMEC”), PT Pertamina (Persero) (“Pertamina”), and PT Pertamina EP (“PEP”) announced the commencement of CO₂ injection as the initial stage of CO₂ enhanced oil recovery (“EOR”) and carbon capture and storage (“CCS”) at the Jatibarang field in West Jawa, Indonesia.

Through this project, JOGMEC, Pertamina, and PEP jointly implement CO₂ Huff and Puff test as the initial stage of CO₂ enhanced oil recovery (“EOR”) and carbon capture and storage (“CCS”) for the field, based on the Joint Study Agreement signed in August 2022. The test is conducted to acquire data that demonstrate and verify the effect of CO₂ EOR and CO₂ storage in the subsurface formations of depleted oil and gas fields.

On October 26, 2022, a ceremony was held at the Jatibarang field to commence CO₂ injection, witnessed by Dr. Tutuka Ariadji, Director General of Oil and Gas, Ministry of Energy and Mineral Resources, Indonesia.

This is the first time that Pertamina and PEP will implement CO₂ injection into an oil and gas field in Indonesia, and will be an important step for the country to increase oil production and reduce carbon dioxide emissions by implementing CO₂ EOR as part of carbon capture, utilization and storage (“CCUS”) technology.

For JOGMEC, this will be the second implementation of CO₂ injection pilot test in South-East Asia region since the one in offshore Vietnam in 2011. The test will be an important step toward decarbonization in South-East Asia region.

JOGMEC engage this project as a part of Asia Energy Transition Initiative (AETI) promoted by the Ministry of Economy, Trade and Industry (METI), and the project is an initiative that contributes to the construction of a CCUS network in Asia region. JOGMEC, Pertamina, and PEP will proactively engage in energy transition towards a net zero carbon society, while fulfilling their responsibility for the development and stable supply of energy over the long-term.



CO2 injection site at the Jatibarang oil field in West Java, Indonesia. White CO2 tanks are connected to the injection well shown on the left.

■Reference

Implementation of CO2 Injection for CCUS in Indonesia (August 31, 2022)

(URL) https://www.jogmec.go.jp/english/news/release/news_10_00008.html

PETROVIETNAM, JVPC and JOGMEC announce success of CO2 -EOR Pilot Test in Rang Dong Oil Field, Block 15-2 Offshore Vietnam (February 29, 2012)

(URL) <https://www.jogmec.go.jp/english/news/release/release0087.html>