

# **Brunei energy storage container processing**





## Overview

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Does kutei basin have a CO<sub>2</sub> -EOR potential?

The Kutei Basin alone has a mid-CO<sub>2</sub> -EOR potential of 756 MMbbl, and the region's CO<sub>2</sub> -EOR potential is further proven by the EOR project conducted by PERTAMINA in the Jatibarang oil field (Ariadji et al., 2018). Fig. 6. CO<sub>2</sub> -EOR/EGR potential of oil and gas fields in Borneo.

Do aquifer basins in Borneo have storage capacity?

Aquifer basins in Borneo are located onshore and offshore, giving various storage options. However, detailed reservoir data is scarce on Southeast Asia's saline aquifers. Substantial storage capacity potential could be unlocked with more characterization of these saline aquifers. Fig. 4.

How many CCs hubs are there in Borneo?

Furthermore, this study has identified four CCS hubs for CCS projects in Borneo. The Balikpapan, Kalimantan, Sarawak, and Brunei hubs can temporarily handle up to 41 Mtpa CO<sub>2</sub>, or 57% of Borneo's stationary emission, before it is transported to nearby subsurface sites for permanent storage.

Which oil fields in Borneo are under secondary recovery?

Most of Borneo's oil fields are under secondary recovery. CO<sub>2</sub> -EOR can enhance oil production while storing a significant volume of CO<sub>2</sub>. The Seria oil field in Brunei has the highest potential (258 MMbbl) for CO<sub>2</sub> -EOR. 5. Most of Borneo's gas reservoirs are under pressure depletion, making them unsuitable for CO<sub>2</sub> injection and storage.

How does CCS work in Borneo?

In Borneo, an extensive pipeline network connects cities to offshore fields in all the basins. Existing pipelines and equipment can be repurposed for future CCS operations. Through these pipelines, CO<sub>2</sub> emissions from densely



populated cities can be transported to the nearest sinks.

How is hydrogen produced in Borneo?

Hydrogen was produced by steam reforming the processed gas from the Brunei LNG liquefaction process. Overall, Borneo possesses the resources to produce hydrogen. This is based on abundant coal deposits that can be used to produce hydrogen and the numerous oil and gas fields that can be used to store CO<sub>2</sub>.



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## **Rizqma Energy Sdn Bhd**

In Brunei, we represents series of unique technical advantages in heavy and extra heavy oil processing, high pressure gas injection, oil-gas-water separation and gas storage tank.

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