

Brunei Distributed Energy Storage Project





Overview

Does Brunei Darussalam have a low-carbon energy transition?

In the Energy Outlook and Energy-Saving Potential in East Asia 2023, Brunei Darussalam includes carbon capture and storage (CCS) technologies under its low-carbon energy transition-carbon neutral (LCET-CN) scenario in addition to an increased share of solar in the power mix by 2050.

How much energy is consumed in Brunei Darussalam?

Final Energy Consumption (historical trend: 2019, 2030, 2040, 2050) Under the LCET-CN scenario, the total final energy consumption (TFEC) for Brunei Darussalam is expected to reach 3 million tonnes of oil equivalent (Mtoe) in 2050, increasing at an average rate of 1.7% per year over 2019–2050 (Figure 2.1).

Does kutei basin have a CO₂ -EOR potential?

The Kutei Basin alone has a mid-CO₂ -EOR potential of 756 MMbbl, and the region's CO₂ -EOR potential is further proven by the EOR project conducted by PERTAMINA in the Jatibarang oil field (Ariadji et al., 2018). Fig. 6. CO₂ -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 CO₂, or 57% of Borneo's stationary emission, before it is transported to nearby subsurface sites for permanent



storage.

Is Borneo a hydrogen hub?

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 CO₂. Borneo can serve as a hydrogen hub by exporting hydrogen to countries such as Singapore, Japan, and South Korea.



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