

SolarTech Power Solutions

Thailand Industrial Energy Saving and Storage Equipment Processing



Overview

What are the decarbonization opportunities for power and industry sectors in Thailand?

In this paper, we evaluate decarbonization opportunities for the power and industry sectors in Thailand by carbon capture and storage (CCS). Stationary CO₂ sources from the power sector include coal-fired, natural gas-fired and waste-to-energy power plants.

What is the natural gas transportation infrastructure in Thailand?

The natural gas transportation infrastructure in Thailand is extensive. Offshore gas fields are connected to the city of Rayong by gas pipelines. There is an existing gas pipeline connecting Rayong and Bangkok and an oil pipeline connecting Bangkok to the Sirikit oil field.

Which is the first mover CCS project in Thailand?

There is no carbon tax in Thailand. Therefore, Cluster I with CO₂-EOR has the top priority as the first mover CCS project in Thailand due to more favorable economics because of incremental oil recovery. 5. Conclusions The followings can be concluded from our study. 1.

Where is CO₂ stored in Thailand?

Fossil fuel power plants are mostly located around the capital city of Bangkok. Cement factories are located around Saraburi. Petrochemical industry and refineries are located near Rayong. For the whole country, there is 79.4 Gt of CO₂ storage capacity in 24 gas fields, 29 oilfields and 10 saline aquifers (Table 9, Table 11, Table 12).

Where does Thailand import gas?

Although there are numerous producing gas fields in the Gulf of Thailand, the country imports gas primarily from Qatar to sustain its rising fuel demand (EIA, 2017). The second largest stationary CO₂ emission comes from cement

factories. Thailand exports cement to Cambodia, Bangladesh, Myanmar, Philippines, and China.

What is the CO₂ storage capacity in saline aquifers in Thailand?

The CO₂ storage capacity in saline aquifers in each Thai basin is given in Table 12. The net-to-gross ratio is assumed to be 0.2 (Ridd et al., 2011). The total mid CO₂ storage capacity for all basins is estimated to be 77.6 Gt, which includes 8.9 Gt in offshore basins of Songkhla, Pattani, Chumpon.

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