

# Trinidad and Tobago advanced energy storage technologies

Does Trinidad and Tobago have a power generation capacity?

However, Trinidad and Tobago power generation capacity surpasses its current demand (Inter- American Development Bank, 2015), which provides avenues for energy storage through low carbon H<sub>2</sub>, MeOH and NH<sub>3</sub> production directly within the local downstream supply chain.

Is Trinidad and Tobago an industrial Sid?

Trinidad and Tobago represents a unique case study as an industrial SID, whereby knowledge and guidance on multiple decision criteria can aid in reducing national carbon footprints.

Does Trinidad and Tobago produce electricity?

The authors greatly acknowledge the Trinidad and Tobago national electricity power produces for assisting in data collection and model verification. No funding sources were received for this study. Energ. J. (2018), 10.3390/en11061412

What makes Trinidad and Tobago unique?

Trinidad and Tobago is heavily dependent on its oil and gas reserves (Fig. 3), petrochemical and other hydrocarbon related downstream industries (Indar, 2019). Thus, the country is unique amongst SIDS and must maximise its benefit from these natural resources, in terms of energy production.

Does Trinidad and Tobago have competing financial interests?

The authors declare that they have no known competing financial interests or personal relationships that could have appeared to influence the work reported in this paper. The authors greatly acknowledge the Trinidad and Tobago national electricity power produces for assisting in data collection and model verification.

Panel on Climate Change (IPCC) as a viable and mature technology that can reduce CO<sub>2</sub> emissions and limit the anticipated rise in average global temperatures to less than 2°C. CO<sub>2</sub> is an unavoidable by-product of natural gas-based industrial activities in Trinidad and Tobago.

Carbon Capture and Storage has been identified as the technology that is critical to realising this objective, while the energy sector transitions toward more renewable energy contributing...

This Staff Discussion Paper "Promoting Energy Storage in Trinidad and Tobago" is the final publication of the Energy Road Map Series of papers. This document outlines some of the options available for deploying Energy Storage (ES) within the local electricity sector. It provides

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NH 3 production ...

The GCF Readiness project, approved in March 2024, aims to further Trinidad and Tobago's CCS readiness, including assessing storage potential in deep saline formations and creating a national storage atlas. This effort is part of a ...

Carbon Capture and Storage (CCS) /CCUS can be applied to large point sources such as fossil fuel energy facilities like the natural gas-powered plants located in Trinidad. After capturing the CO<sub>2</sub>, it is then compressed and transported for geological storage.

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