

Trinidad and tobago benefits of energy storage

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2.1 Benefits and Applications of Energy Storage ES has various uses and can provide benefits to different parts of the electricity system or grid, that is, the generation, transmission and distribution (GTD) value chain.

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 CO2, it is then compressed and transported for geological storage. Pipelines are preferred for transporting large amounts of CO2 for distances around 1000km.

Trinidad and Tobago has several options to rebalance its energy portfolio to offset declining hydrocarbon production while taking advantage of the green energy transition. These include reducing domestic consumption of natural gas and oil products, boosting domestic production of natural gas, increasing renewable electricity production, and ...

Trinidad and Tobago: Many of us want an overview of how much energy our country consumes, where it comes from, and if we're making progress on decarbonizing our energy mix. This page provides the data for your chosen country across all of the key metrics on this topic.

The English-speaking Caribbean, Trinidad and Tobago, Suriname being the exceptions and more recently Guyana, has been contending with the perennial challenge of energy security. The Caribbean with abundant renewable and non-renewable energy resources is well poised to meet the needs of its population. Oil

Though the nation's absolute CO2 emissions are relatively insignificant, it has high levels of CO2 emissions on a per capita and per GDP basis (World Resource Institute 2005). As a signatory to the United Nations Framework Convention on Climate Change, Kyoto Protocol and Paris Agreement steps must be taken to reduce our carbon emissions and to meet the target of cutting emissions by 15% by 2030 (UNDP, 2018). CCUS provides an avenue for Trinidad and Tobago to do so while simultaneously boosting our oil production.

At the Commonwealth Heads of Government meeting in 2009, the South Chamber of Industry and Commerce (now the Energy Chamber) delivered a presentation entitled "Carbon Capture and Storage: The T&T Landscape". This presentation inspired the formation of the Carbon Reduction Strategy Task Force (CRSTF) in April of 2010. The CRSTF was mandated to develop proposals for:

The CRSTF involved a committee which comprised of representatives from the Ministry of Energy & Energy Industries (MEEI) and the Ministry of Housing & the Environment (MHE); academic institutions such as the University of Trinidad & Tobago (UTT) and the University of the West Indies (UWI); state energy companies such as the National Gas Company (NGC), the National Energy Corporation (NEC) and Petrotrin,



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representatives of the Energy Chamber and private sector companies such as Atlantic LNG (Atlantic) and Krishna Persad and Associates (KPA).

In order to implement viable carbon reduction strategies such as Carbon Capture Utilization and Sequestration (CCUS), the volume of CO2 emitted and a suitable method of economic transmission from the sources to the destination needs to be determined. The CRSTF found that the sources of concentrated CO2 that can be easily accessed are the ammonia manufacturing plants at the Point Lisas Industrial Estate (PLIE) (4-9 mmMT/year) and the CO2 removal system of the Atlantic LNG facility 9 of (96,000-135,000 MT/ year).

The carbon reduction initiative must be supported by adequate policy which is further backed by appropriate regulatory and administrative framework for overseeing CRS implementation. There are various existing international, regional and national policies, frameworks and initiatives on this matter of reducing greenhouse gas emissions and promoting the utilization of economically available CO2 all of which need to be analyzed to see which suits T&T best.

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