

Project Management Model Applied to Carbon Capture and Storage in Trinidad

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Abstract: Carbon Capture and Storage (CCS) demonstration projects are needed worldwide to advance the reduction of carbon dioxide emissions to commercial operations. There are less than ten (10) large-scale projects in operations worldwide; none of these are in developing countries. The overall objective of these activities is the mitigation of increasing global average temperatures. In Trinidad and Tobago (T&T), CCS implementation is likely to be the integration of ongoing upstream and downstream energy industry operations to achieve sustainable development. In this paper, the planning stages of the Project Management Model advocated by the Global Carbon Capture and Storage Institute (GCCSI) is discussed with reference to the CCS implementation in T&T. Policies, regulations and government-led incentives for CCS are currently under development, and the opportunities for implementation are encouraging. This paper demonstrates the application of the project management model for CCS via international collaboration, and explores the opportunities and challenges of CCS implementation in T&T.

Keywords: Sustainable development, CO₂ emissions, storage, project lifecycle, Trinidad and Tobago