

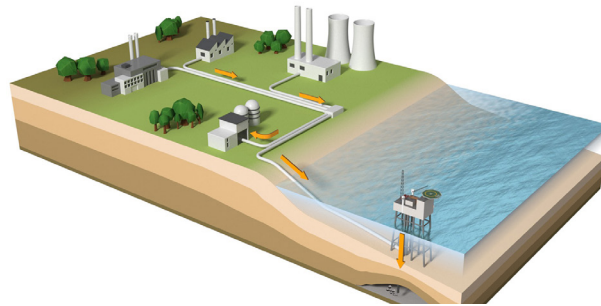
# UTT Driving National Sustainability Through Applied Research and Industry Collaboration

The University of Trinidad and Tobago (UTT) continues to play a leading role in advancing sustainable development through applied research and strategic partnerships with industry, government agencies, and international institutions. Across multiple initiatives, UTT researchers are delivering practical, data-driven solutions that support climate action, environmental stewardship, and economic resilience in Trinidad and Tobago.

## Advancing Carbon Capture and Storage (CCS) for Trinidad and Tobago

UTT is a key contributor to a landmark Green Climate Fund (GCF)- supported Carbon Capture and Storage (CCS) Readiness Project, which is the first time the GCF has funded a CCS-focused initiative. The project, submitted jointly by Trinidad and Tobago and Suriname, with the Caribbean Community Climate Change Centre (CCCC) as the delivery partner, aims to strengthen CCS frameworks, reporting mechanisms, and institutional capacity across the region.

Within this initiative, UTT, working alongside the University of the West Indies (UWI), the International Energy



*A conceptual schematic of a Carbon Capture and Storage (CCS) system illustrating CO<sub>2</sub> capture from an industrial facility, pipeline transport, and offshore injection into deep saline geological formations for long-term storage.*

Agency Greenhouse Gas Programme (IEAGHG), and the University of Texas at Austin led the geological assessment of CO<sub>2</sub> storage potential

in Trinidad and Tobago. Building on prior work with the Ministry of Energy and Energy Industries, bpTT, and Shell Trinidad and Tobago, the

research focuses on quantifying and characterising storage potential in saline aquifers and assessing associated risks to support future pilot CCS projects.

This work is being led by UTT Professors Donnie Boodlal, Vice President Research, Academic and Student Affairs, and David Alexander, Programme Professor, Energy Systems Engineering, along with Professors Raffie Hosein and Andrew Jupiter of UWI. UTT's team has been engaging stakeholders for more than two years to ensure the proposal met the rigorous technical standards required for GCF readiness funding.

## Partnering with Industry: Tiger Tanks GHG Inventory and Mitigation

UTT's expertise has also been applied directly within the private sector. Tiger Tanks Trinidad became the first private-sector company in the country to complete a full GHG inventory and mitigation assessment, conducted in partnership with UTT.

Using IPCC 2006 guidelines and international best practice, UTT's team quantified emissions, identified key sources, and developed an indicative roadmap for reducing the company's carbon footprint. The project



demonstrates the important role of academia in supporting industry as

companies adapt to evolving climate, regulatory, and market expectations.

It also provides a replicable model for other organisations seeking to align with Trinidad and Tobago's Nationally Determined Contributions under the Paris Agreement.

UTT's research team included Professors Rean Maharaj- Acting President, Donnie Boodlal, Vice President-Research, Academic and Student Affairs, and Dr Dillon Ramsook, Assistant Professor, Process Engineering.

## UTT's Role in National Development and Sustainability

Collectively, these initiatives underscore UTT's role as a national hub for applied research and sustainable innovation. By working closely with industry, government agencies, and international partners, the University is helping to translate policy ambitions into practical action; strengthening local capacity, supporting climate commitments, and contributing to Trinidad and Tobago's long-term environmental and economic resilience.

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