Update on the Carbon Capture & CO$_2$ EOR Steering Committee

T&T Energy Conference 2022
Context to the formation of Carbon Capture & CO2 EOR Steering Committee

5. MEEI participates in CERM (2017)
6. MEEI funds UTT Carbon Management study (2018)
7. Pilot CO2 injection in Trinity Inniss field by Fram/Predator (2020)
8. **Carbon Capture & CO2 EOR Steering committee setup by Cabinet (2021)**
9. Implementation of tax allowance on profits of 30% of expenditure up to $500k for CCS & CO2 EOR projects(2021)
10. Carbon Capture & Storage (non EOR) at annual average mitigation potential of 3 Mtpa is included in T&T’s TNA for its NDC under the Paris Agreement (2021)
12. Ministry of Planning & Development commissions Carbon Pricing Study (2021)
Carbon Capture & CO2 EOR Steering Committee Composition

- Penelope Bradshaw-Niles, Permanent Secretary (Ag.), MEEI [CHAIR]
- Himalaya Boodoosingh, Snr. Manager HSE, NGC
- Arlene Chow, CEO, Heritage Petroleum Company
- Andrew Jupiter, Coordinator Dept. of Pet. Eng., UWI
- Kishan Kumarsingh, Head Multilateral Environmental Agreements Unit, MoPD

MANDATE
“to manage the implementation of a Large-Scale CO2 EOR Project to increase Trinidad and Tobago’s oil revenue and to address the reduction of carbon dioxide emissions.”
Terms of Reference

Large Scale CO2 EOR Project

• “It is envisaged that the project would involve the use of CO2 from the Atlantic LNG facility for EOR in the oil fields of Heritage in Point Fortin central area”

• “The initial focus of the Committee would be the identification of suitable reservoirs in the Heritage producing areas such as Point Fortin, Guapo, Gran Ravine and Forest Reserve; Heritage would have the lead and be responsible for the implementation of the project”

Research & Technical Studies

• “The technical studies required to advance the work of the Steering Committee be funded by the Ministry of Energy and Energy Industries from the Research and Development Funds contributed under the Production Sharing Contracts”

• “Research and technical studies to be conducted, where available, through UWI, St. Augustine, and/or the UTT”
Carbon Capture & CO2 EOR Steering Committee highlights

2021 Steering Committee highlights

• Feb – Cabinet appoints Committee
• Mar – 1st Committee Meeting
• May – Keith Bally appointed as Coordinator
• June – 1st presentations by non Committee organizations on GHG reduction plans.
• September – launch of MEEI led Legal/Regulatory Workgroup
• Nov – launch of Heritage led Technical Workgroup
• Dec – launch of UWI & UTT Carbon Storage Atlas Project

2022 Steering Committee highlights

• Mar – GHG Emissions: Methane Workgroup leader appointed.
• May – Committee endorsement to the T&T Green Fund of a non profit company’s CCUS initiative
Full listing of organizations consulted on GHG reduction plans

✓ CERM (UWI/UTT)
✓ ALNG
✓ BHP Billiton
✓ BPTT
✓ DeNovo
✓ Energy Chamber Commerce
✓ EOG Resources
✓ Green Earth Foundation
✓ Green Fund
✓ Heritage Petroleum Limited
✓ Massy Gas Products Trinidad Limited
✓ New Horizon Exploration Trinidad & Tobago Ultd.
✓ The National Gas Company of Trinidad and Tobago (NGC)
✓ Nutrien
✓ Oxy Low Carbon Ventures
✓ Perenco
✓ PLNL
✓ Predator Oil & Gas Holdings
✓ Proman
✓ Shell Trinidad and Tobago Ltd
✓ TOSL
✓ Wellbore Ltd
✓ Yara
### Key Future Milestones

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<td>Evaluation of suitable Forest Reserve reservoirs</td>
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<td>CO₂ Storage economics comparison</td>
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<td>UWI/UTT CARBON STORAGE ATLAS WORKGROUP</td>
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<td>Quantify the storage capacity of the Basins identified</td>
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<td>Perform gap analysis to identify training needs to enable CCS in T&amp;T</td>
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<td>Review &amp; Finalization of Technical Report</td>
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<td>LEGAL/REGULATORY WORKGROUP</td>
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<td>CCS (non EOR) &amp; CO2EOR legislative policy draft for Cabinet initiated</td>
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<td>Completion of CCLIS legislative policy draft with CCS (non EOR) technical regulations</td>
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<td>Recommendations on fiscal/commercial measures to encourage CCS/CO2EOR</td>
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<td>Min. of Planning National Carbon Pricing study completed</td>
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