

Carbon Capture and Storage in South Africa

A D Surridge

General Manager: Cleaner Fossil Fuels

Head: South African Centre for Carbon Capture and Storage

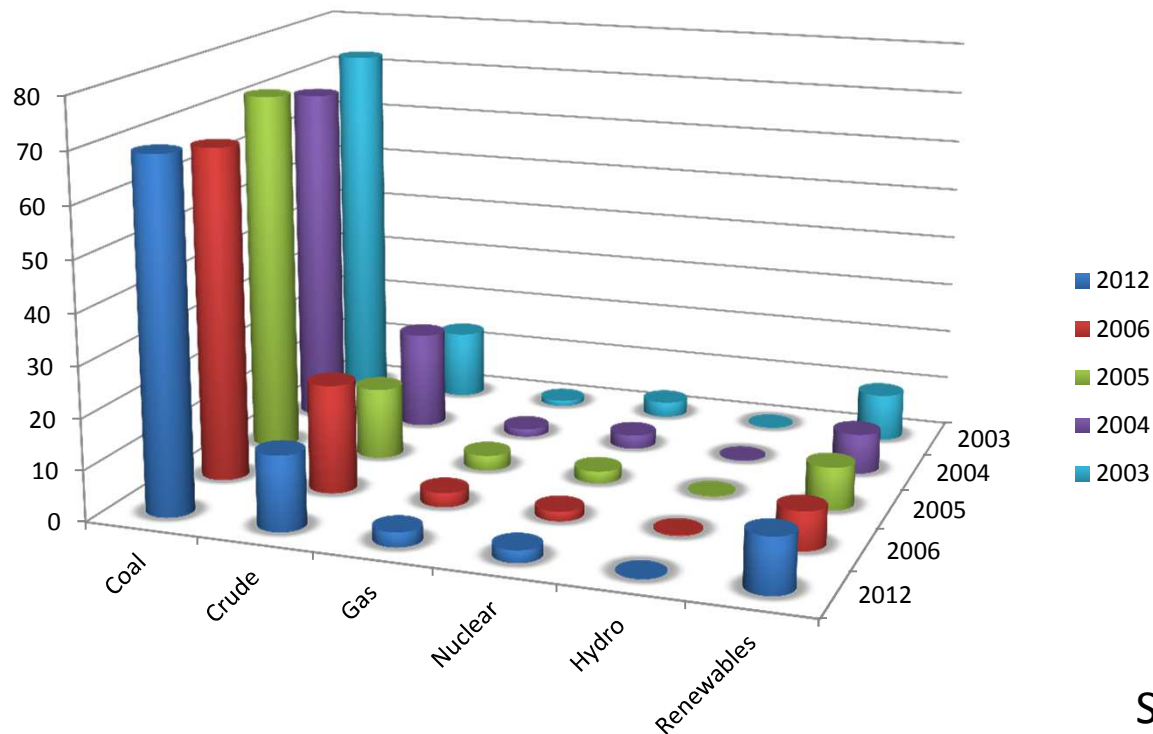
South African National Energy Development Institute



COP22

Marrakech, November, 2016

WHY - CO2 Emission Mitigation



SA reliant on Fossil Fuels

Primary Energy ~90%

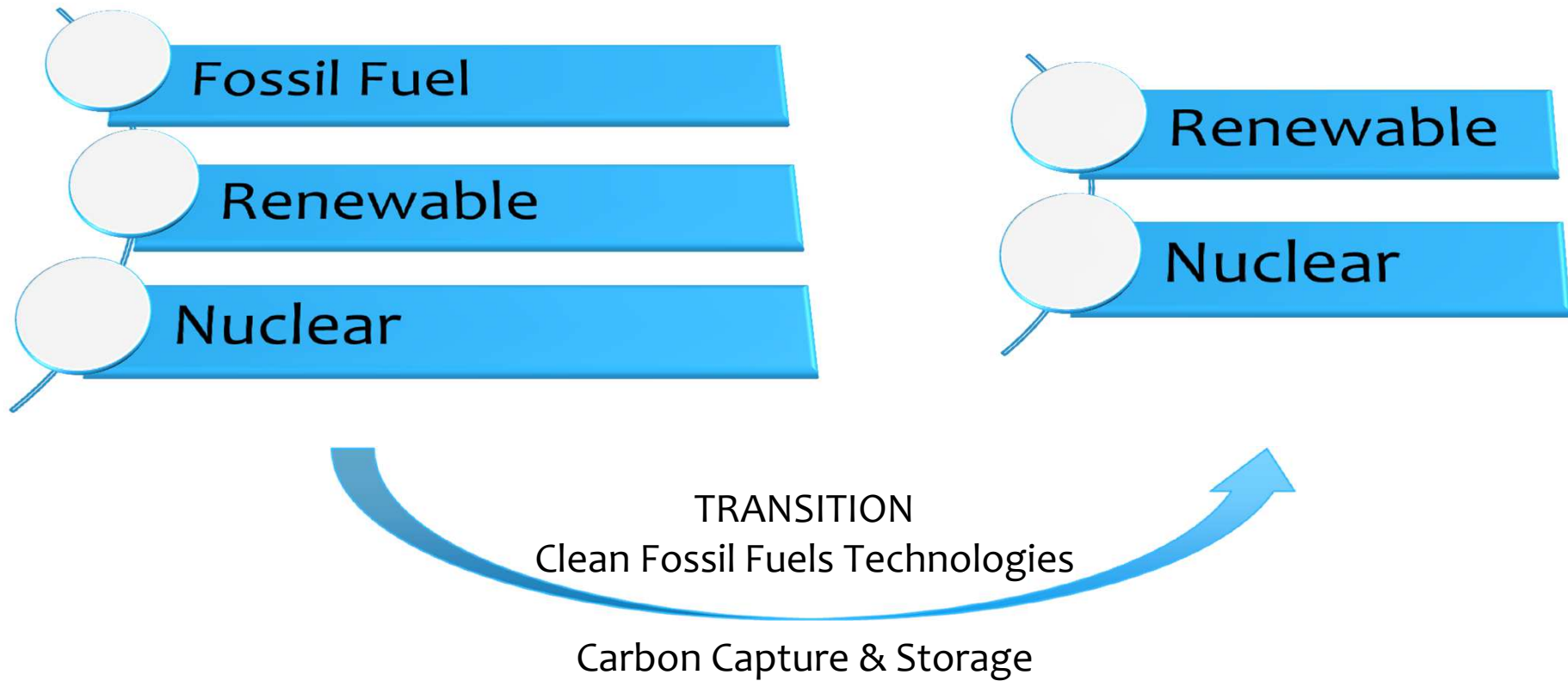
Coal ~72%

Digest of Southern African Energy Statistics, 2009, Department of Energy

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Only Three Types of Energy

Clean Fossil Fuels as a Transition Technology

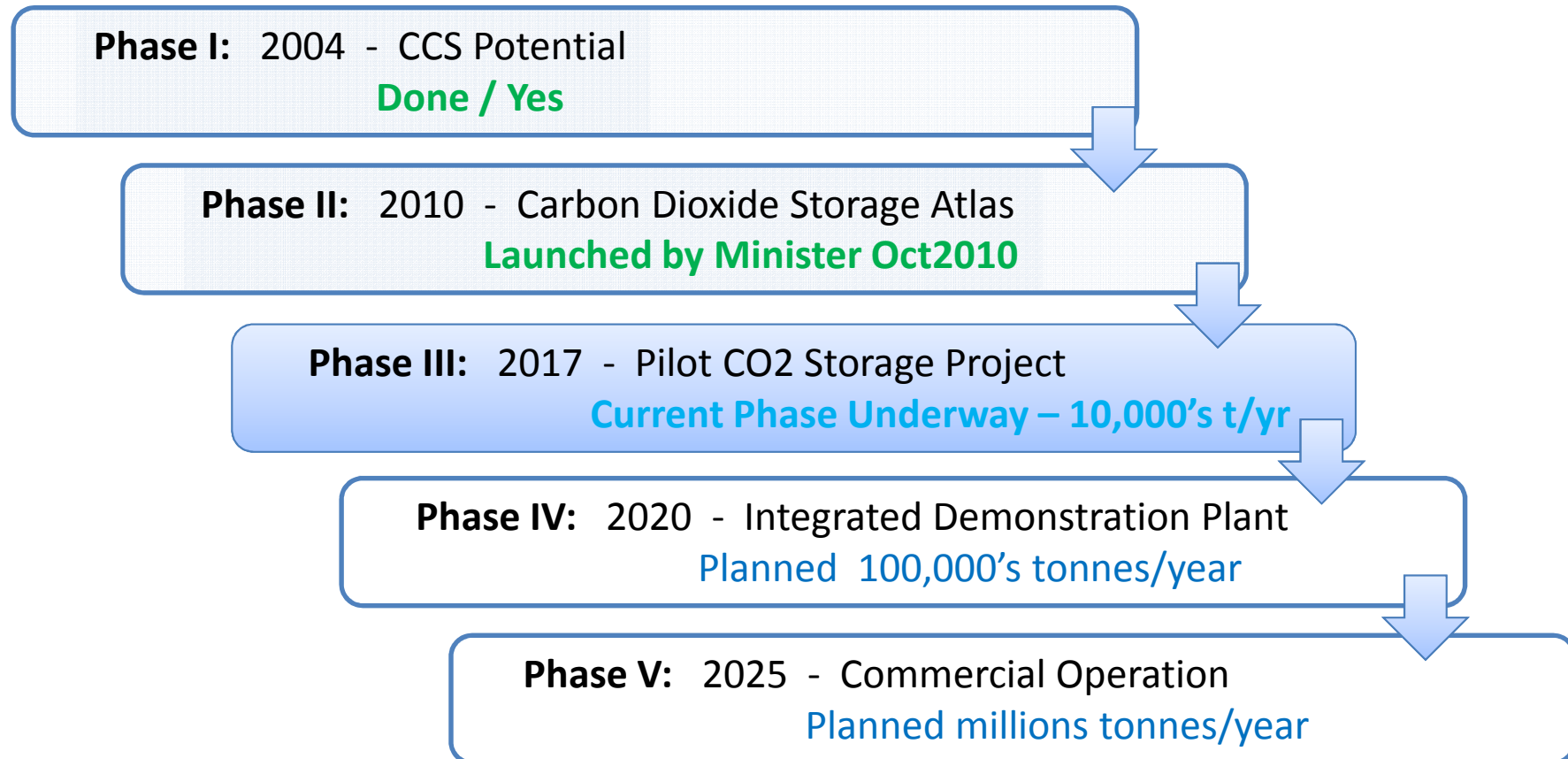


CCS is one of South Africa's eight Near-term Priority
Flagship Programmes

*National Climate Change Response White Paper
October, 2011*

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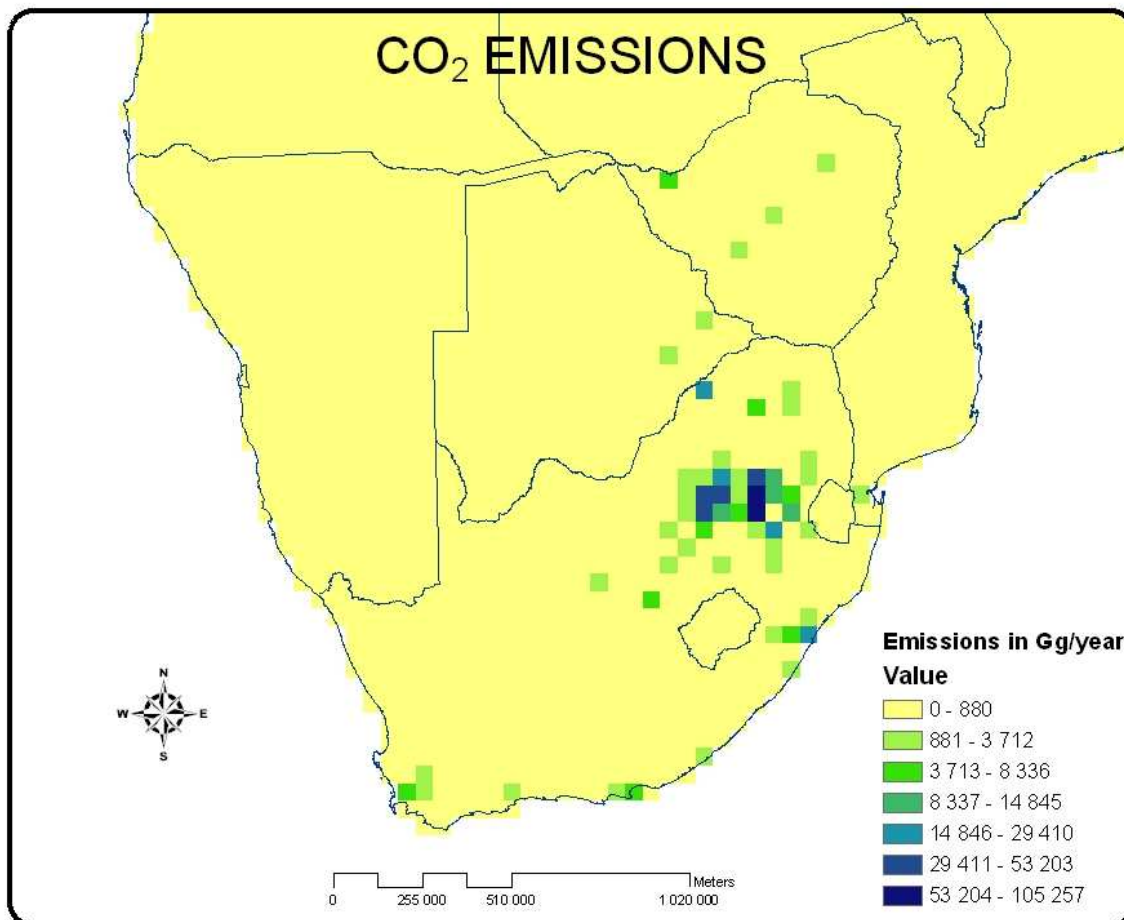
South African CCS Road Map



Sources of Carbon Dioxide Emissions



South African Centre for
carbon capture
& storage



SOURCE: CSIR/DME

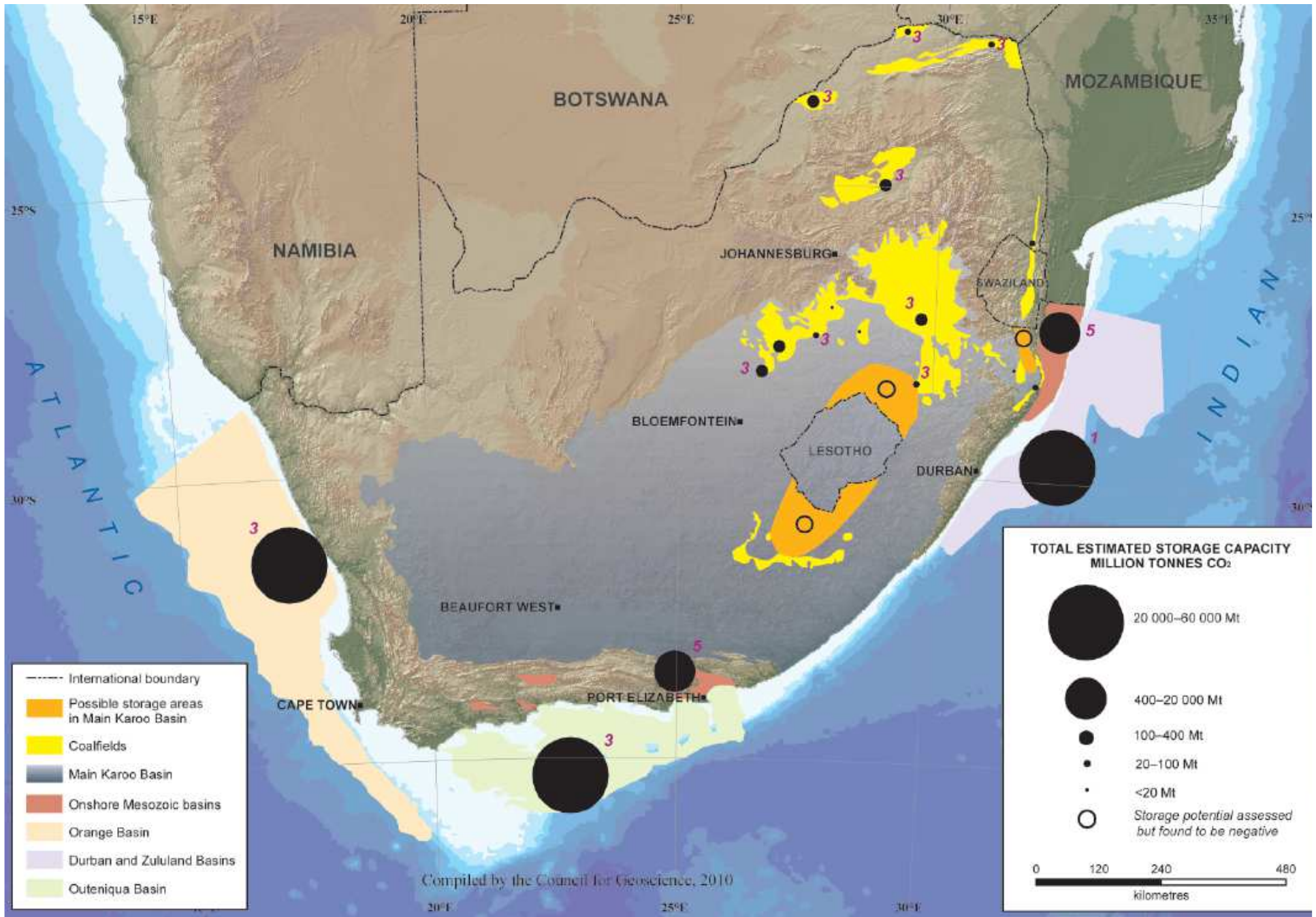
Need for a Capture
Pilot Plant being
accessed.

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Current Stage III Includes



➤ **Regulation Development**

➤ **Pilot CO₂ Storage Project:**

Demonstrate safe and secure CO₂ storage under South African conditions [“Proof of Concept”]

Dirt under the fingernails

➤ **SACCCS CCS Development:**

- Impact of prospective South African C Tax on CCS
- Utilisation of CO₂ [with Fossil/Renewable Hybrids]
- Bursary Programme
- Schools Programme

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THANK YOU

Emails: tonys@sanedi.org.za

Website: www.sacccs.org.za

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