

About The Project

In support of the Pilot CO₂ Storage Project (PCSP) in the year 2015 the South African Carbon Capture and Storage (SACCCS) embarked on a Pilot CO₂ Monitoring Capacity Building Project (PMP) at the Natural CO₂ Release in Bongwana near Harding in KZN and Mbizana in the Eastern Cape to inform the development of a detailed monitoring plan for the PCSP.

PMP was a capacity building initiative, the objective of the project was to develop methodologies and protocols in surface measurement, monitoring and verification of CO₂, thus equipping the monitoring team with global CCS expertise. The ideal location for monitoring are located where the CO₂ gas exhalations are observed along the +80km long geological fault. Various work packages were established as follows:

- The measurement of CO₂ in the atmosphere and soil domain.
- Surface and groundwater monitoring.
- Environmental impacts of CO₂.
- Continual stakeholder engagement activities.



Ms Gcobisa Environmental Monitoring Lead with two SACCCS bursars students Mr Mzikayise Nkwane From UKZN and Mr Teddy Mbonambi From UP conducting water monitoring in KZN (Farm Baiker).

Capacity Building Initiative

The capacity building activities were aimed at equipping SANEDI and Stakeholder Engagement team with surface monitoring skills, thus creating readiness for detection of potential leaks in the PCSP. The monitoring programme saw collaborative efforts being strengthened with national and local stakeholders that have invested interest in CCS as well as research units from South African Universities.

Pilot Schools Project

SACCCS through its Pilot School Project (PSP), aims to conduct outreach programmes for Maths, Science and Technology learners. With the assistance of Ugu and Eskom Expo for Young Scientist Graduates were invited to participate and assist learners to develop projects for the Eskom Expo by being appointed on 1 year part-time contracts. Local learners were encouraged to participate in the Eskom Expo for Young Scientists, an exposition, or science fair, where graduates have a chance to partake in scientific investigations of their choice with a bias towards CCS or Climate Change. Through this initiative a total of five undergraduates were contracted under the SANEDI, Ugu Municipality and Eskom Expo for Young Scientist Agreements.

Feedback on the monitoring of CO₂ has been provided to Ugu Municipality from all four quarter reports of the CO₂ monitoring programme.

On 29th November 2018 at the council meeting of Ugu District Municipality SANEDI was honoured by the speaker Councillor N.H. Gumede on our partnership and assisting with social development of youth in the District. The council consist of Six Local Municipalities that serve in the council representing their own communities.



Ms G. Melamane - Monitoring Lead, Ms N. Walingo-Manager: Environmental Management, Mr K. Khumalo-SANEDI Trainee, Ms T. Tshivhase - Stakeholder Engagement Officer and Ms G. Dlamini - Expo Mentor attending the Ugu council Meeting