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New Collaboration in Australia

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Paul Jensen (ALS Laboratory group), Nick Hudson (CTSCo) and Katherine Romanak (BEG) stand beside one of the soil gas stations being used for real-time environmental monitoring at the Surat Basin CCS demonstration site. The project is upscaling and improving on Romanak's initial design for using commercially available sensors for real-time data collection at CO₂ geological storage sites. (e.g. Romanak et al.

(<http://www.sciencedirect.com/science/article/pii/S187661>

From February 24- March 7, 2017, Katherine Romanak travelled to Queensland Australia to provide expertise and conduct research in environmental monitoring for the Carbon Transport and Storage Corporation Pty Ltd (CTSCo) Surat CCS demonstration project (<http://ctsco.com.au/>). The project is designed to demonstrate the technical viability, integration and safe operation of Carbon Capture and Storage (CCS) in the Surat Basin. Currently in the feasibility study stage, the project is undergoing assessments and approvals in environmental, social and technical aspects, under the relevant government regulation.)

Romanak's research project is funded by the Australian National Low Emissions Coal Research and Development Ltd (ANLEC R&D) (<http://www.anlecrd.com.au>) on behalf of the Australian coal industry and the Australian Commonwealth government. This project will support compliance with environmental requirements for Monitoring and Verification (M&V), including early communication with CTSCo Surat Basin Project stakeholders. The research will help to define a way forward for environmental monitoring at the CTSCo Surat Basin project site and ultimately at project sites within other Australian sedimentary basins.

The hypothesis being tested is that simple soil gas ratios can be used for real-time accurate environmental signal attribution, even in hydrocarbon-rich environments. Also being tested is the degree to which isotopes can be used

0214022486), 2014, Energy Procedia 63 (2014) 4027 – 4030; Romanak et.al
(http://www.co2captureproject.org/reports/CCP3v4_full_version.pdf), 2015, Chapter 38, in Gerdes, K. F., ed., Carbon dioxide capture for storage in deep geological formations—results from the CO2 Capture Project, Volume 4: CCS Technology Development and Demonstration Results (2009-2014): UK, CPL Press and BP, p. 705-732.)

for signal attribution. This research will give an indication of the most useful methods for environmental compliance and near-surface (M&V) at the CTSCo Surat CCS demonstration project and beyond.

Posted in Katherine Romanak (https://www.beg.utexas.edu/gccc/blog/category/katherine_romanak/).
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