



Conference Agenda

CCS - EU/RSA Partnerships
A focus on Carbon Capture

Sessions during Day 1

Session 1	CCS in the EU and South Africa
Session 2	Making CCS a Reality
Session 3	Cost and Financing of CCS
Session 4	Panel Discussion - EU/RSA Collaboration on CCS

Day 1 - Wednesday, February 13, 2013

08:00 am - 09:00 am	Registration
09:00 am - 09:45 am	<p>Opening Ceremonies</p> <p>Welcome: Dr Steve Lennon, Group Executive, Sustainability, Eskom</p> <p>Keynote Address: Ms Dipuo Peters, Minister of Energy, RSA <i>Position of CCS in the South African Context</i></p> <p>Keynote Address: Mr Richard Young, EU Delegation, EU <i>CCS Developments in Europe</i></p>
	CCS in the EU and South Africa - Chair: Barry MacColl (Eskom)
09:45 am - 10:00 am	<ul style="list-style-type: none"> The OCTAVIUS Project - Paul Broutin (IFPEN)
10:00 am - 10:15 am	<ul style="list-style-type: none"> The SACCCS CCS Roadmap - Tony SurrIDGE (SACCCS - SANEDI)
10:15 am - 10:30 am	<ul style="list-style-type: none"> Industrial Deployment of CCS in Europe - Francois Kalaydjian (ZEP)
10:30 am - 10:45 am	<ul style="list-style-type: none"> Discussion - CCS in the EU and South Africa
	Coffee Break - Poster Sessions
	Making CCS a Reality - Chair: Brendan Beck (SACCCS)
11:00 am - 11:20 am	<ul style="list-style-type: none"> Coal: Its Economic Importance and the Coal Roadmap - Dave Collins (FFF)
11:20 am - 11:40 am	<ul style="list-style-type: none"> The Lacq CCS Project - Jacques Monne (TOTAL)
11:40 am - 12:00 pm	<ul style="list-style-type: none"> South African Storage Atlas and the Test Injection Project - Thinus Cloete (CGS)
12:00 pm - 12:20 pm	<ul style="list-style-type: none"> Participation in Technology Centre Mongstad - David Kawesha (Sasol)
12:20 pm - 12:40 pm	<ul style="list-style-type: none"> The ROAD Project - Nick Booth (E.ON)
12:40 am - 01:00 pm	<ul style="list-style-type: none"> Discussion - Making CCS a Reality
	Lunch Break
	Cost and Financing of CCS - Chair: Lodewijk Nell (EcoMetrix Africa)
02:00 pm - 02:20 pm	<ul style="list-style-type: none"> CO₂ Capture Cost - A Perspective from the EBTF - Laurence Robinson (E.ON)
02:20 pm - 02:40 pm	<ul style="list-style-type: none"> The Cost of Storage - Gilles Munier (Geogreen)
02:40 pm - 03:00 pm	<ul style="list-style-type: none"> Carbon Financing of CCS - Henk Sa (EcoMetrix Africa)
03:00 pm - 03:20 pm	<ul style="list-style-type: none"> Financing CCS - A Development Bank's Point of View - Damien Navizet (AFD)
03:20 pm - 03:40 pm	<ul style="list-style-type: none"> Discussion - Making CCS a Reality
	Coffee Break - Poster Sessions
	Panel Discussion - EU/RSA Collaborations on CCS - Chair: Steve Lennon (Eskom)
04:00 pm - 04:50 pm	<ul style="list-style-type: none"> EU and RSA Government: EU Delegation, Zero Emissions Platform, SA DOE Other RSA Stakeholders: Eskom, Sasol, SACCCS
04:50 pm - 05:00 pm	<p>Closing Remarks</p> <p>Dr Steve Lennon, Group Executive, Sustainability, Eskom</p>

Posters presented in the Hall



Conference Agenda

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Sessions during Day 2

Session 5	Current Capture Processes
Session 6	Next Generation Capture
Session 7	OCTAVIUS Results
Session 8	Panel Discussion - Benefits OCTAVIUS for EU/RSA Collaboration on CCS

Day 2 - Thursday, February 14, 2013

08:00 am - 09:00 am		Registration
09:00 am - 09:10 am		Opening of Day 2 Dr Steve Lennon, Group Executive, Sustainability, Eskom
		Current Capture Processes - Chair: Nikki Wagner (Wits)
09:10 am - 09:30 am		• The Carbon Capture Process - Challenges & Solutions - Geert Versteeg (Procede)
09:30 am - 09:50 am		• DPS Carbon Capture Capabilities - David Fitzgerald (Doosan Power System)
09:50 am - 10:10 am		• From Hicapt+ to DMX Process - Ludovic Raynal (IFPEN)
10:10 am - 10:30 am		• A Commercial 800 MW Post-combustion Capture Case - Falk Hoffmeister (Hitachi)
10:30 am - 10:50 am		• The Chilled Ammonia Process - TBC (Alstom)
10:50 am - 11:10 am		• Discussion - Performance and Cost of Capture
		Coffee Break - Poster Sessions
		Next Generation Technologies - Chair: Geert Versteeg (Procede)
11:30 am - 11:50 am		• The Solvit Project - Thor Mejdell (SINTEF)
11:50 am - 12:10 pm		• Amino Acid Based Capture - Earl Goetheer (TNO)
12:10 pm - 12:30 pm		• RSA's Academic CCS Involvement, Wits and beyond - Nikki Wagner (Wits)
12:30 pm - 12:50 pm		• Discussion - Next Generation Capture
		Lunch Break
		OCTAVIUS Results - Chair: Paul Broutin (IFPEN)
02:00 pm - 02:20 pm		• Benchmarking Methodology in the OCTAVIUS Project - Hanne Kvamsdal (SINTEF)
02:20 pm - 02:40 pm		• Three Pilot Plants, One Aim - Nick Booth (E.ON) and Peter van Os (TNO)
02:40 pm - 03:00 pm		• The South African versus the European Capture Case - Yokes Singh (Eskom)
03:00 pm - 03:20 pm		• From laboratory to pilot demonstration - Christiana La Marca (Enel)
		Coffee Break - Poster Sessions
		Panel Discussion - Chair: Brendan Beck (SACCCS) Benefits of OCTAVIUS for EU/RSA Collaboration on CCS
03:40 pm - 04:50 pm		- RSA: DST, DEA, Eskom, Hitachi - EU: IFPEN, Zero Emissions Platform, E.ON
04:50 pm - 05:00 pm		Closing Remarks Paul Broutin, OCTAVIUS Coordinator, IFPEN

Posters presented in the Hall



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Site Visit on Day 3

Site Visit

Kusile Power Station (under Construction)

Day 3 - Friday, February 15, 2013



Courtesy Eskom

Kusile - World's Largest Coal-fired Power Plant

- 4,800 MW of power
- 5,200 hectares site
- Includes Flue Gas Desulphurization (FGD) unit
- Between Johannesburg and Witbank
- Less than 2 hour drive from Johannesburg

Kusile is the second most advanced coal-fired power plant project in Eskom after Medupi power station in Lephalale where construction commenced in 2007. As a rule, a coal-fired power station takes about eight years to build. The station will consist of six units each rated at approximately 800 MW installed capacity giving a total of 4800 MW. As such it will be one of the largest coal-fired power stations in the world, once finished.

An interesting aspect to this project is that it will be the first power station in South Africa to have FGD installed. FGD is the current state-of-the art technology used to remove sulphur dioxide (SO₂) from the exhaust flue gases in power plants that burn coal or oil.

The first unit is planned for commercial operation in 2014. The other units will be commissioned in approximately 8-month intervals with the last unit expected to be in commercial operation by 2018.

Source: <http://www.eskom.co.za/c/article/58/kusile-power-station/>

Map of Conference Location

Eskom Academy of Learning

The Eskom Academy of Learning is conveniently situated on a 105 hectare farm in Midrand, halfway between Johannesburg and Pretoria, its just 30 minute drive from O.R. Tambo International Airport and barely 10 minute drive from Grand Central Airport.

The Eskom Academy of Learning provides a friendly ambience, outstanding venues and a land populated with numerous indigenous trees, rich bird life and a modest herd of wild game.



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The OCTAVIUS Project

This initiative is sponsored by the European Commission via the Seventh Framework Programme (EC FP7) as part of the OCTAVIUS (Optimization of CO₂ Capture Technology Allowing Verification and Implementation at Utility Scale) project, a project dedicated to CO₂ Capture and Storage (CCS). This R&D project has started in March 2012 and has a duration of 5 years.



Within OCTAVIUS, post-combustion CO₂ capture processes will be demonstrated by means of 3 pilot plants.

Conference Co-organizers



OCTAVIUS Project Partners



Affiliate organizations



The conference organisers reserve the right to make further changes