



IEA Greenhouse Gas R&D Programme - Overview

Millie Basava-Reddi

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IEA Greenhouse Gas R&D Programme



- A collaborative research programme founded in 1991
- Aim: *Provide members with definitive information on the role that technology can play in reducing greenhouse gas emissions.*
- Producing information that is:
 - Objective, trustworthy, independent
 - Policy relevant but NOT policy prescriptive
 - Reviewed by external Expert Reviewers
 - Subject to review of policy implications by Members
- IEA GHG is an IEA Implementing Agreement in which the Participants contribute to a common fund to finance the activities. Funding approx 2.5 million \$/year.

ALSTOM

B&W
power generation group

BG GROUP



CEZ GROUP



CIAB

VATTENFALL



ConocoPhillips



TOTAL



ieaghg



Enel
L'ENERGIA CHE TI ASCOLTA.

Statoil



e-on

Schlumberger



EPRI

RWE
The energy to lead

REPSOL YPF

JGC

GLOBAL CCS INSTITUTE

ExxonMobil

IEA GHG Studies >120



Implementation Support

- Methodology for CCS projects under CDM
- Guidelines for CCS site characterisation
- CCS Project Financing
- Regional capacity for CO₂ storage in India

Regulatory Support

- Risk assessment and regulatory needs
- Environmental impact assessment for CCS
- Capture-ready power plant (IEA/G8)
- Monitoring Selection Tool

Technical Assessments

- Improved solvent scrubbing processes for CO₂ capture
- Capture of CO₂ from medium scale installations
- Improved Oxygen production processes
- Collection of CO₂ from distributed sources
- CO₂ Capture in the cement industry
- Co-production of hydrogen and electricity
- Remediation of leakage from geological storage
- Fuel Cells for CHP
- CO₂ Pipeline transmission costs

International Research Networks



Capture

- Capture
- Oxy-fuel Combustion
- High Temperature Solid looping Cycles

-
- Social Research
 - Biofixation

Storage

- Risk Assessment
- Monitoring
- Well Integrity
- Modelling

Practical R&D Activities



Systems Studies/Capture

- DYNAMIS
- International Test Centre

Technical Reviews

- US REGIONAL PARTNERSHIPS
- US EPA VUNERABILITY ASSESSMENT FRAMEWORK
- OTWAY BASIN PILOT PROJECT
- WEYBURN
- RECOPOL

Storage Projects

- WEYBURN
- SACS/CO2STORE
- CO2REMOVE
- CO2SINK
- MOVECBM



Greenhouse Gas Technologies Conference (GHGT)



- Premier International GHG conference
- Focused on CCS
- Held every two years
- GHGT-8, 2006 – Trondheim, Norway
 - 950 Delegates
- GHGT-9, 2008 – Washington, USA
 - 16th – 19th November
 - ~1500 Delegates
- GHGT -10, 2010 – Amsterdam, Netherlands
- www.ghgt.info

International Workshops/Networks



- 2nd CCS Finance workshop held in New York in May 2008
 - With IEA CCC and WCI
- IEA Regulators Network
 - IEA GHG working with IEA and UCL to joint-organise
 - Regular 'webinars' on range of topics

http://www.iea.org/Textbase/subjectqueries/ccs/ccs_legal.asp

- Leakage impacts R&D (experts meeting) – Sep '08 and 2010 tba
- Sustainable Development and CCS - tba

Education and Capacity Building

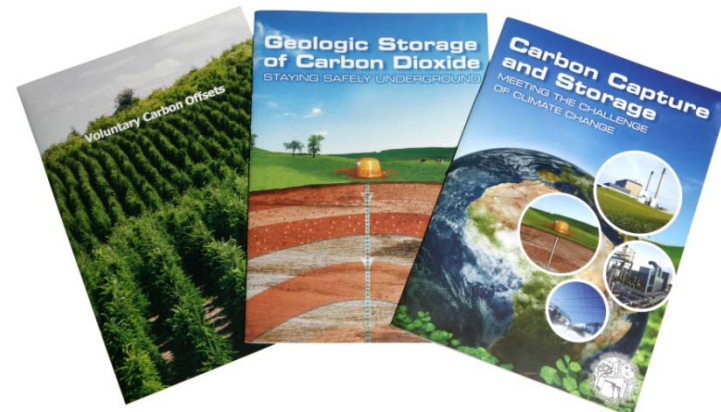


- Summer Schools
 - Germany 2007
 - Canada 2008
 - Melbourne 2009
 - Norway 2010
- CCS in Africa. Workshops in Senegal and Botswana, 2007
- Capacity building elements to GHGT9 and GHGT10

Communications



- Websites
 - www.ieaghg.org
 - www.ghgt.info
- Newsletter
 - 6200 paper copies, Increasing length
- Glossy Reports
 - Voluntary Carbon Offsets, Geological Storage of Carbon Dioxide, Carbon Capture and Storage, etc.



GHG Journal



- International Journal on Greenhouse Gas Control launched
 - Released Quarterly
 - Peer reviewed
 - Original research
 - 6 issues per year planned
- www.elsevier.com



Collaborations

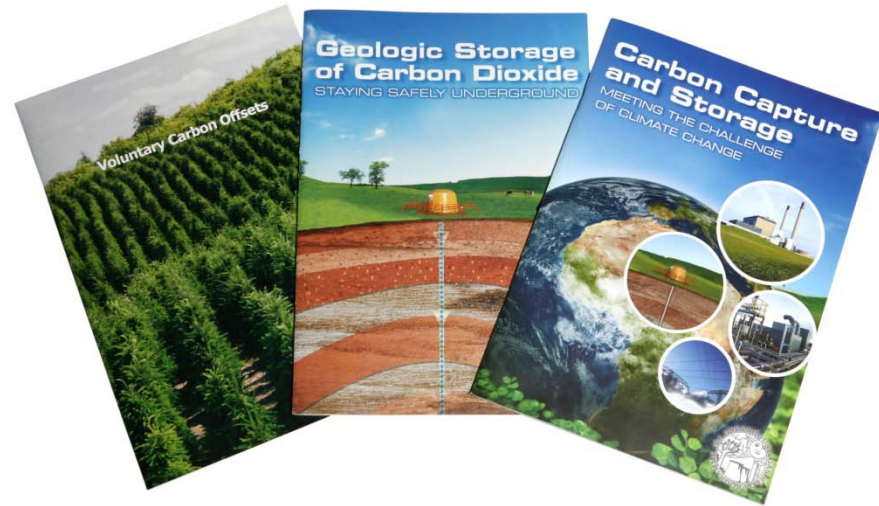


- GCCSI
- CSLF
 - Collaboration Arrangement with CSLF Technical Group
 - Collaborate/contribute in Risk, Capacity, Academic Task Forces,
 - IEA GHG Student Forum planned with CSLF, web-based
- IEA/CSLF/G8 Near Term Opportunities Work
 - IEA GHG member of Organising committee
- APP Programme – Oxy Fuel working group
 - Shadowing our Oxy Fuel network meeting
- EU ZEP
- IEA Regulators Network
- IPAC

IEA Greenhouse Gas R&D Programme



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- www.ghgt.info



GHGT-10 Programme Announced,
by Stan Twining, IEAGHG

From the rapid number of submitted abstracts (over 1100), the GHGT-10 Programme Committee has selected a remarkable list of abstracts to be presented at either oral or poster format. To access these the Programme Committee selected the list of CC authors on 18th Oct 2010 at www.ghgt10.org. To ensure the critical review and work with the Programme Committee to complete the technical programme.

GHGT 10
19th-23rd November 2010, RAI Amsterdam, The Netherlands

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The GHGT-10 Programme is now available at: www.ghgt10.org

With 2010 and presentations created over seven parallel sessions and 700 posters, the programme promises something for everyone. Our sessions include 19 on Carbon Dioxide, 20 on Energy Storage, 21 on Energy Storage and CCS, 22 on Energy Storage Systems. The remainder of the 44 sessions are completed subject areas covering Legal and Policy Issues, Research, Negative CO₂ Emissions, R&D, Utilization of CO₂, and Public Acceptance of CCS.

An additional research strand has been developed to allow discussions on such topics as Building CCS Infrastructure and Large-Term R&D Agenda (see other hot topics).

All papers presented as either an oral or poster presentation will be published by Elsevier online in their Energy Proceedings, no differentiation will be made in the processing between oral and poster papers.

Shortly we will be updating the www.ghgt10.org website with a track listing, the eventing venue, this will have an RSS feed and a Twitter service to enable you to keep abreast of updates regarding the conference.

Available online at ScienceDirect www.sciencedirect.com

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Thank you