



IEA Greenhouse Gas R&D Programme

Update Report on Activities to ISO TC 265

Tim Dixon and Stanley Santos
IEAGHG

*Birmingham, AL, USA
30 January 2015*

IEA Greenhouse Gas R&D Programme (IEAGHG)



- A collaborative international research programme founded in 1991
- Aim: To provide information on the role that technology can play in reducing greenhouse gas emissions from use of fossil fuels.
- Focus is on Carbon Dioxide Capture and Storage (CCS)
- Producing information that is:
 - ✓ Objective, trustworthy, independent
 - ✓ Policy relevant but NOT policy prescriptive
 - ✓ Reviewed by external Expert Reviewers



ieaghg



Partner Organisations:



IEAGHG



- Flagship activities:
- Technical Studies >250 reports published on all aspects of CCS
- International Research Networks
 - Risk Assessment
 - Monitoring
 - Modelling
 - Environmental Impacts
 - Oxy-combustion
 - Post-combustion Capture
 - Solid Looping Capture
 - Social Research
- GHGT conferences:
 - GHGT-12 in Austin, 5-9 Oct 2014
 - Discussion Panel on ISO TC265
 - Papers online at <http://www.sciencedirect.com/science/journal/18766102>

GHGT-12, Austin, Texas



IEAGHG



- Other activities include:
- International CCS Summer Schools - 2012 Beijing, 2013 UK, 2014 University of Texas Austin, USA, 2015 Australia tbc, 2016 Mexico tbc
- Peer reviews, eg US DOE, US EPA; CO2CRC
- Active in international regulatory developments – London Convention, UNFCCC, ISO TC265
- Collaborations with IEA, CSLF, CCSA, EU ZEP and others



THE UNIVERSITY OF
TEXAS
AT AUSTIN

UNFCCC Side Event, COP-20, Lima, Peru, 9 Dec 2014: -
“**New Large-scale Carbon Capture and Storage (CCS) Projects Operating in the Americas**”



Reports published



	Contractor	Report number	Publication date
Comparing Different Approaches to Managing CO ₂ Storage Resources in Mature CCS Futures	BGS (GCCSI)	2014-01	19/03/2014
Evaluation of Reclaimer Sludge Disposal from CO ₂ PCC Process	Trimeric Corporation	2014-02	24/03/2014
(Costs of) CO ₂ Capture at Coal-Based Power Plants	Foster Wheeler	2014-03	03/07/2014
Evaluation and analysis of the performance of dehydration units for CO ₂ capture	AMEC	2014-04	14/04/2014
Biomass and CCS - Guidance for accounting for negative emissions	Carbon Counts	2014-05	03/07/2014
Report of 5th HTSLCN Meeting Cambridge	IEAGHG	2014-06	09/07/2014
Report of Iron and Steel Workshop Tokyo	IEAGHG	2014-07	19/08/2014

Reports published



	Contractor	Report number	Publication date
Report of 4 th Social Research Network	IEAGHG	2014-10	27/10/14
CO ₂ Storage Efficiency in Deep Saline Formations - A Comparison of Volumetric and Dynamic Storage Resource Estimation Methods.	EERC	2014-09	17/10/14
Techno Economic evaluation of different PCC Process Flow Sheet Modifications	Hamburg University of Technology	2014-08	22/09/14
IEAGHG 2013 Peer Review of US RCSP Projects – Public Summary Report	IEAGHG	2014-TR2	21/05/14
Assessment of emerging CO ₂ capture technologies and their potential to reduce costs	IEAGHG	2014-TR4	23/12/14

Reports pending



	Contractor
CCS Clusters	COFREE
Impact of CO ₂ Impurity on CO ₂ Compression and Transportation	Newcastle University
Oxy Gas Turbine Power Plants	Foster Wheeler
Operating Flexibility of CO ₂ Storage and Transport	EERC
Cost components for storage of CO ₂ in association with enhanced oil recovery	TNO
Quantifying and monitoring emissions reductions from CO ₂ -EOR	Carbon Counts

Reports pending



	Contractor
Review of Offshore Monitoring Techniques	BGS
Evaluation of CO ₂ Adsorption Process in Natural Gas Production	SINTEF
Evaluation of Various Process Control Strategy for Normal and Flexible Operation of PCC	Imperial College



IEAGHG 2015 meetings

- Process Industry CCS Workshop, Lisbon, Portugal, 10-11 Mar 2015
- Monitoring Network. LBNL, California. 10-12 June (tbc) 2015
- Social Research Network. University of Cambridge and Tyndall Centre, UK. 6 July 2015
- High Temperature Solid Looping Network. Milan, Italy. 1-3 Sep 2015
- PCCC3, Regina, Canada, 8-11 Sep 2015
- Combined meeting of Risk Management Network and Environmental Research Network. National Oceanography Centre, UK. 30 Sep – 2 Oct 15
- 5th Oxyfuel Combustion Network Meeting, Wuhan, China, 27-30 Oct 2015
- LCA workshop. Fall 2015 tbc
- Information on <http://www.ieaghg.org/index.php?/networks.html>

GHGT-13



- Lausanne, Switzerland, 13-18 Nov 2016

Timeline

- Call for abstracts opens 1st October 2015
- Deadline for submission 10th February 2016
- Registration opens 6th April 2016
- Draft technical programme 1st June 2016
- Early bird registration closes 13th July 2016



IEA Greenhouse Gas R&D Programme

Update Report on Activities to ISO TC 265

Tim Dixon and Stanley Santos
IEAGHG

Birmingham, AL, USA
30 January 2015