



The IEA Greenhouse Gas R&D Programme

John Topper, IEA EPL

On behalf of

IEA Greenhouse Gas R&D Programme

IEA Working Party on Fossil Fuels

December 2008, Paris





Contracting Parties and Sponsor Organisations of IEA GHG

A world map is centered on the slide, surrounded by logos and flags of various organizations and countries. The logos include Vattenfall, Alstom, B&W, BG Group, bp, ConocoPhillips, CEZ Group, Chevron, Eni, EniTechnologie, e-on, EPRI, ExxonMobil, Repsol YPF, RWE, Schlumberger, Statkraft, StatoilHydro, and Total. The flags represent countries such as the United Kingdom, United States, Austria, Australia, Canada, Denmark, Finland, France, Germany, India, Japan, Korea, Norway, South Africa, South Korea, and Sweden. The logo for Schlumberger and the flag of South Africa are circled in red.



Invited New CPs



Invited New Sponsors



L'ENERGIA CHE TI ASCOLTA.



Study Reports in Preparation

- Fuel cells for combined heat and power
- CO₂ pipeline transmission costs
- Operating flexibility of power plants with CCS
- Assessment of sub-sea ecosystem impacts
- Novel approaches to improving capture
- Aquifer storage development issues
- CCS and CDM
 - Draft out for Poznan – COP12/MOP2



Studies Underway

- Safety considerations for CCS
- Best practise guidelines on site characterisation
 - Site Characterisation Criteria
- Improved solvent scrubbing processes
- Prospects for storage of CO₂ in gas fields
- Prospects for storage of CO₂ in EOR
- Long term integrity of storage – well abandonment
- Storage capacity coefficients
- CCS Life Cycle Analysis – Literature review
- Use of biomass with CCS – part 1: combustion processes



New Studies from 34th ExCo

No.	Title
34-6	Quantification techniques for CO ₂ leakage
34-2	Incorporating future technological improvements in existing CO ₂ capture plants
34-4	Injection Strategies for CO ₂ Storage Sites
34-3	Evaluation of the water usage and loss of power plants with CO ₂ Capture



Network/Workshop Activities

- International Research Networks
 - Joint Storage Network meeting
 - Oxyfuel network
 - CO₂ capture
- Other Workshops
 - Environmental Impacts workshop
 - Financing
- Summer School
 - First held in 2007
 - Turned into a series in 2008
 - Second school held in Canada, August 2008
 - Australia, 2009
 - Norway, 2010



GHGT-9

- Broke all existing records.
 - 1469 people from 42 countries
 - The highest single country attendance was from the host USA with 576 delegates
 - 158 students
 - 269 oral presentations in 6 parallel sessions.
 - 370 posters were presented,





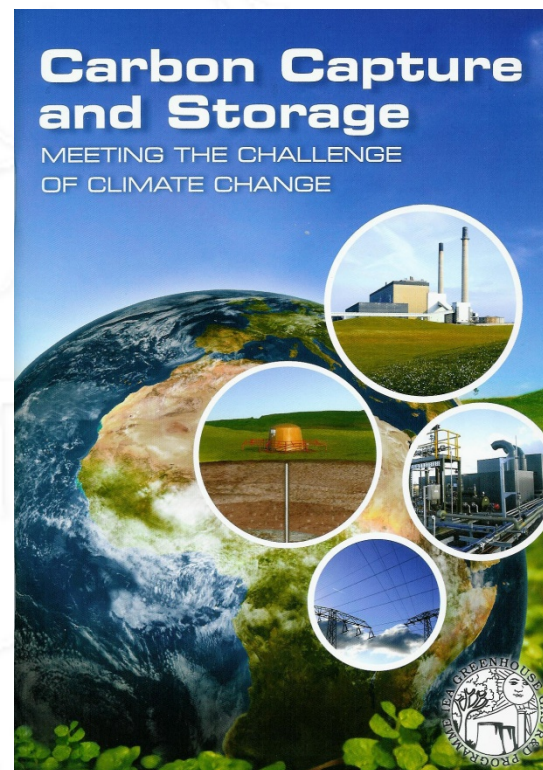
Post Conference Activities

- GHGT-9
 - CD Proceedings of Papers
 - Proceedings on-line on Energy Proceedia
 - Executive Report on “What we Learnt”
 - Finalise budget & divvy up
 - Special Issue of IJGGC
- GHGT-10 Planning/preparations up and running
 - September 2010, Amsterdam, Netherlands



Other Activities

- Regulatory support
 - Attending:
 - IMO (London Convention & OSPAR)
 - EU ZEP
 - COP/MOP & SBSTA CCS meetings
- Support to regulatory development
 - EC CCS Directive
 - US EPA Guidelines
- IEA Regulators network
- CCS Readiness report with IEA WPPF





New activities in 2009

- “What we have learnt” activity started
- Oxy-combustion network to be developed into a mini conference series
 - First September 2009
- IJGGC
 - 6 issues per year
- Storage modelling network to start in 2009
- Working with existing group on a Chemical looping network



Thank You

Any Questions?

Reference material on IEA GHG can be found at:

www.ieagreen.org.uk

Reference material on CCS can be found at:

www.co2captureandstorage.info