



IEA Greenhouse Gas R&D Programme



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1st Joint Network Meeting

**Co-organisers and sponsors: EPA
Sponsors: EPRI and OXAND**

New York – 11-13 June 2008





Joint Network Meeting

Aims

- Review networks
- Enhance links between networks
- Identify any gaps, and duplication
- Consider role of modelling in networks
- Leverage cross-network expertise
- Refine future focus and priorities of networks



Gaps

- Well monitoring
- Monitoring for other substances
- Quantification of CO₂ - leakage and stored
- Risk assessment scaling up from few wells to 1,000s
- Need more learning from projects, shared learning to other projects (need more projects)
- Monitoring for other stakeholders than regulators
- Monitoring for leakage to well intermediate zones
- Risk Network to interface with Insurance industry
- Closer involvement with regulators – and with those who advise regulators
- Include costs
-and others
- Little duplication, other than terminology

How to address these and by which group ?



Session 4. Network Summary and Future work

- Breakouts by Network. Same chairs and rooms.
- To discuss and agree future focus, priorities, activities.
- Presentations back.

- 11:00 Presentations
- 12:30 Lunch
- 13:30 Session 5. Conclusions and next steps
- 15:30 End



Breakout Groups

- For the three Network Specific Breakout groups the chairs and IEA GHG staff representatives will be as follows:
 - **Wellbore Integrity** – Bill Carey (Chair), Craig Gardner (co-chair), Toby Aiken (IEA GHG Staff)
 - **Risk Assessment** – John Kaldi (Chair), Claudia Vivalda (co-chair), Neil Wildgust (IEA GHG Staff)
 - **Monitoring** – Kevin Dodds (Chair), Rick Chalaturnyk (co-chair), Brendan Beck (IEA GHG Staff)



Session 5: Joint Network Meeting

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R&D Networks

- Bring together international key groups of experts to share knowledge and experience
- Identify and address knowledge gaps
- Act as informed bodies, eg for regulators
- CO2 geological storage – assessing and managing risks
- Started in 2004/5
 - Monitoring Research Network
 - Risk Assessment Research Network
 - Wellbore Integrity Research Network
- Benefit experts and wider stakeholders
- but - depend on experts' time and inputs – valuable and widely appreciated



Networks – future focus and priorities

- Good exercise, useful, for forward thinking
- Key points for IEAGHG and Networks to act on
- Good that they're thinking of other Networks, modelling etc
- Steering coms to prioritise identified gaps for agendas for next meetings
- Interfaces are key (intra and inter-network)



Role of modelling in networks

- Need for Modelling ‘activity’, ie ‘prediction of CO2 fate and effects’
- IEAGHG will reflect on the discussions
 - Initial meeting (2008/9?) and study
 - Focus on reservoir and cap-rock, other applications can be covered in networks
 - Review of modelling tools
 - Inherent and close links into other networks
 - Source of advice to Regulators, others
 - Scope out study



Future Network Options

Create new networks ?

- Need for additional Modelling ‘activity’
- CO2 infrastructure safety/risk – IEAGHG Study - reflect after study
- Site characterisation – single meeting ? To scope out. IEAGHG DNV study to input on this. Use networks to peer review DNV.

Cross-network working groups –

- Linked meetings – overlap two network meetings by a common day



Future Network Options - cont

Future Joint Network Meetings ?

- Feedback on this meeting
- JN every three years ?



Future Network Options - cont

Proposals:-

- Annual co-ordination of steering committees . Information sharing. Set questions/objectives for each others meeting
- Network orientated report from each network meeting on 'Learning points' for other networks
- Coordinate closer with those network members who interface with regulators – identify and anticipate key issues for networks to address
- 'Expert judgements' - Networks to support/include experts being used by regulators
- Networks to input to IEA CCS Regulators Network

http://www.iea.org/Textbase/subjectqueries/ccs_network.asp

www.ieagreen.org.uk



Future Network Options - cont

IEAGHG will

- Pick up the actions mentioned
- Reflect and act on modelling discussions
- Summary report from this JN meeting summarising ideas and future plans, and ppts onto web site
- Revise Network brochures – comments by 4 July to Toby
- Coordinate steering committees
- Combine storage networks mailings



Future Network Meetings

- Risk – Melbourne, 16-17 Apr 2009
- Monitoring – Tokyo, May-June 2009 tbc
- Wellbore – Calgary, May 2009 date tbc



Nicholas Stern says:

- *“We badly underestimated the degree of damages and the risks of climate changewe need to get better at carbon capture and sequestration very quickly”*

From the Independent 17 April 2008



THANK YOU !

Sponsors

- EPA, with EPRI and OXAND
- Chairs and co-chairs
- Organising committee
- Everyone – we can't do anything without you !



IEA Greenhouse Gas R&D Programme



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