

CSLF WORKSHOP
"Overcoming Barriers to CCS Deployment"
Paris
27 March 2007

Programme

Objectives

- To identify possibilities for deploying CCS technologies at large scale
- To identify ways of removing obstacles to deployment of CCS
- To identify where actions and initiatives/projects are required to address some of the critical issues and gaps.

Programme

- **Morning Programme**

- **0900 Start: Chair/Olivier Appert**

- Introduction and scene-set for the workshop (10 mins)
- **Olivier Appert [IFP]**
 - Stakeholder input to policy development (EU ZEP) (10 mins)
- **Nick Otter [ALSTOM]**
 - Ongoing work to remove obstacles for large scale industrial initiatives (60 mins)
 - EC – Sustainable FF PG Communiqué of 10 January 2007
- **Wiktor Raldow [European Commission DG RTD]**
 - USA – Regional actions and engagement
- **George Guthrie [Los Alamos National Laboratory]**
 - Canada – infrastructure issues
- **Bill Reynen [National Resources Canada]**
 - Australia – storage legislation
- **John Hartwell [DITR/Australia]**
 - Developing country viewpoint – what is needed to deploy CCS
- **R.R. Sonde [NTPC/India]**
 - Discussion Session (15 mins)

- **1035-1100 Refreshment Break**

- **POSTER SESSION for CSLF projects**

- Industrial initiatives: what is needed to make them happen? (120 mins)
– a series of case studies
 - Planned industrial demonstrations and `first of a kind` plant
 - **Pre combustion capture from gas** **UK**
- **Gardiner Hill [BP]**
 - **IGCC/pre combustion capture** **Australia**
- **Howard Morrison [ZeroGen]**
 - **FutureGen** **USA**
- **Victor Der [U.S. Department of Energy]**
 - **Oxyfuel capture** **Canada**
- **Bill Reynen [Natural Resources Canada]**

- **Oxyfuel capture** **France**
- **Luc de Marliave** [TOTAL]
- **Post combustion capture from gas** **Norway**
- **William Christensen** [Ministry of Petroleum and Energy]
- **Post combustion capture from coal** **Germany**
- **Matthias Krumbeck** [RWE]
- **CO₂ storage in depleted fields** **France**
- **Marc Florette** [GDF]

Note : the aim is to get a range of capture technologies (pre/post/oxy) with different fuels (gas/coal) and at different parts of the world with different CO₂ storage site types and use.

1300-1400 Lunch: Walking buffet with time for interactions

- **Afternoon Programme:**

1400 Start: Afternoon Chair/Trude Sundset

- The Business Case for CCS – an industry perspective (25 mins)
- **Mike Morris** [AEP]

Panel Session

- Introduction to Panel Sessions (10 mins)
 - Explain aims, objectives and format: **Trude Sundset** [Statoil]
- What next? Technology (40 mins)
 - Chair : **Manuel Sánchez** [EC DG-RTD]
 - Overview of Gap Analysis work conducted by CSLF/PIRT and way forward with possible new/extended projects (10 mins)
- **John Bradshaw** [GeoScience Australia]
 - Panel discussion (30 mins)
- **Pierre Le Thiez** [IFP]
- **Steve Crookshank** [American Petroleum Institute]
- **John Bradshaw** [GeoScience Australia]

1515-1540 Refreshment Break

POSTER SESSION for CSLF projects

- What next? Communication and Public Acceptance (40 mins)
 - Chair: **Gardiner Hill** [BP]
 - Preparative talk for Panel (10 mins)
- **David Reiner** [MIT/Cambridge University]
 - Panel Discussion (30 mins)
- **Peta Ashworth** [CSIRO Australia]
- **Jason Anderson** [Inst. For European Environmental Policy UK]
- What next? Legislation and Regulation (40 mins)
 - Chair : **John Hartwell** [DITR/Australia]
 - Preparative talk for discussions (to identify key regulatory issues, ...) (10 mins)
- **Scott Brockett** [EC DG-ENV]

- Panel discussion: (30 mins)
 - **Stefan Bachu** [Alberta Energy & Utilities Board]
 - **Arthur Lee** [ChevronTexaco]
- What next? Putting a value on CO₂ (40 mins)
 - **Chair: Jeff Chapman** [CCSA]
 - Preparative talk outlining issues (10 mins)
 - **Howard Herzog** [MIT]
 - Panel discussion : (30 mins)
 - **Gardiner Hill** [BP]
 - **Bill Koppe** [Anglo]

Final Session

1740 Conclusions

- Summary and Closure (5 mins)
 - **Trude Sundset** [Statoil]

1745 Closure of Workshop