

CSLF Stakeholder Meeting

Adlon Hotel, Berlin - Monday September 26th 2005

EUropean Stakeholder Dialogue



Niels Peter Christensen

Geological Survey of
Denmark & Greenland (GEUS)
Ministry of the Environment

This **Specific Support Action**, InCA-CO₂, aims at **strengthening European excellence and enhancing technical competitiveness** of Europe in the area of CO₂ Capture and Storage (CCS), by:

*Providing to **European stakeholders** support for **the international forums** such as CSLF (Carbon Sequestration Leadership Forum).*

*Establishing **international relations** with international projects & programs (US, Canada, Japan, Australia) for exchanging information on past and ongoing projects, and identifying opportunities **for future co-operation.***

*Analysing new information on CCS and providing a coherent view on international activities for **input in policy.***

The consortium is composed of 7 research institutes (IFP, GEUS, BRGM, BGS, TNO, OGS, SINTEF), key-players in the co-ordination of past and ongoing research projects, actively supported by 4 industrial partners (Statoil, Vattenfall, BP, Alstom) representing different sectors of CO₂ activities.



NGO DIALOGUE & the CSLF
European Commission - Brussels 18 January 2005



Coordinating & maintaining a dialogue with NGOs



CCS RTD - NGO dialogue

How to distinguish scientific issues from other issues?

- reciprocity agreement
- peer reviewed articles
- other?

NGO involvement in actual RTD projects

- what position?
- confidentiality
- which projects? (e.g. CO₂STORE, CO₂SINK, CO₂ ReMoVe)

Mechanism for RTD project involvement

- direct involvement in individual projects or
- separate NGO project linked to several RTD projects

Which topics and issues?

- All
- Selected (e.g. safety, how long time is enough etc)

NGO direct participation in non-RTD activities

CO2NET; the main EU club on CCS

- NGO full membership or
- NGOs to be invited for annual science event

CSLF

- EU consultation meetings,
- position papers/presentations,
- participation in planning of meetings

International Events

- EU CCS conference in April 2005,
- French CCS conference in Sept 2005,
- IEA GHGT-8 in Norway Summer 2006



EU CO₂ Capture & Storage Stakeholder Dialogue Meeting

September 6th, 2005 - Borschette Conference Centre, Brussels

DISCUSSION ON TOPICS AND WAYS FORWARD FOR INTERNATIONAL COOPERATION ON CCS

41 PARTICIPANTS from

AirLiquide, Bellona Europe, BGS, BP, BRGM, CAN Europe, Chevron, DEA, DTI, EC Environment, ECN, ENEA, EU RTD, Finansbladet Kapital, Jülich, Friends of the Earth, GermanWatch, GEUS, Greenpeace, IEEP, IFP, Industrie Government France, INGV, MFA, Norsk Shell, OGS, Alstom Power, Schlumberger, Siemens, Sintef, Statoil, Stichting Natuur en Milieu, The Bellona Foundation, TNO, TNO-NITG, Utrecht University, WWF, Zaragosa University

Agenda

- | | |
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| <p>14.00 Welcome
Introduction and objectives</p> | <p><i>Niels Peter Christensen, GEUS DK</i></p> |
| <p>14.15 EU and the CSLF
-the role of stakeholders</p> | <p><i>Angel Perez-Sainz, Denis O'Brien & Pierre Dechamps,
EU DG Research</i></p> |
| <p>14.30 The EU FP7
- Zero Emission Technology Platform</p> | <p><i>Kurt Häge, Vattenfall De,
ZE TE Chairman of Advisory Committee</i></p> |
| <p>14.45 DISCUSSION ON TOPICS AND WAYS
FORWARD FOR INTERNATIONAL
COOPERATION ON CCS</p> <ul style="list-style-type: none"> - NGO perspectives - Government/regulators - Power generators - Hydrocarbon operations and CO₂ - CO₂ capture R&D - Geological Storage of CO₂ R&D - Supplier's view | <p><i>Kirsten Macey, Climate Network Europe
Brian Morris, DTI UK
ENEL/Vattenfall
Tony Espie, BP UK
Paul Feron, TNO NL, Nils Røkke, Sintef No
Nick Riley, BGS UK
Nick Otter, Alstom</i></p> |
| <p>16.15 Summary of discussion (i.e. input to CSLF
presentation on 26th of September)</p> | <p><i>Moderated by Nick Otter, Alstom UK</i></p> |
| <p>16.45 Future cooperation among EU stakeholders
- how?, how often?, format?....</p> | <p><i>INCA CO2 coordinator Pierre le Thiez,
IFP France</i></p> |
| <p>17.00 Close of meeting</p> | |



Stakeholder dialogue: key issues

NGOs

Liability, public perception/acceptance, risk factors, long term ownership of CO₂, relation of CCS to long term energy development.....**NO OCEAN STORAGE**

Government/regulator

Reliability and safety of storage (monitoring and verification of storage for 100 or 1000 of years), International standards and regulations for consistency worldwide, How to balance regulations - not too tight or lax?
Need to balance energy portfolio incl. Renewables.

Power generation

Cost reductions, efficiency, business boundary conditions, market mechanisms, purity of the CO₂, incentives for early-birds.....



Hydrocarbon operations and CO₂

Commercial models (incentives, emission trading valorisation), stakeholder acceptance of storage (OSPAR etc & long term stewardship), North Sea EOR???....

CO₂ capture R&D

COST REDUCTIONS..... and new innovative capture technologies (high temp membranes?), joint pilot plants?, overcoming IPR barrier, staff mobility & exchange

Geological Storage R&D

Geological variability/demos, leakage experiments, timescale & longevity, capacity assessment standards.....

Supply Company

Market development and timelines, market risk, technology winners? (pre, post, oxy), domestic market development.....



Dialogue Meeting messages

- Continued dialogue is essential
- Important that spirit of cooperation is felt by all
- Non-technical issues must be addressed/overcome
- Some technical issues are very suitable for international cooperation within CSLF, UN etc (e.g. standards)

The new EU Zero Emission Technology Platform will have strong stakeholder influence and the EU will use this as part of systematic consultations.