

Issues that Impact CCS

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The issues

- Demonstrating the technology
- Regulatory and Legal Framework
- Economics
- Infrastructure
- Public awareness and perception
- International co-operation



Demonstrating the technology

- Topic has been more than adequately covered in the earlier sessions.
- But it cannot be sufficiently stressed that there is a **very urgent need** for commercial scale demonstrations of the full range of technologies.
- Without these commercial deployment will not occur
- It will be easier to deploy the technology commercial in countries that have undertaken demonstrations



Regulatory and Legal Framework

- Neither full demonstration nor commercial deployment can take place without an adequate legal framework.
- This will be addressed in the first paper in this session
- I would also like to bring to your attention the draft Directive covering CCS adopted last week by the European Commission
- It is *never too early* to start work on this issue



Economics

- This topic will have been covered in the first session of the workshop
- But wish to raise two points here:
 - Launching demonstration projects will require strong financial commitments by the industry which should trigger strong public financial and political support by governments. (See Commission Communication*)
 - The price of carbon will be critical for deployment. The EU will reply heavily on the success of its Emission Trading Scheme (ETS). (See Commission Directive*)

* Adopted as part of the energy and environment package of 23 January 2008



Infrastructure

- Every source will not have its own dedicated pipeline to its own sink.
- A network of pipelines and the associated infrastructure will be necessary.
- This will require major planning and investment *even before commercial deployment*.
- It needs to be part of the CCS roadmaps.
- The EU map set up an infrastructure project under its Trans-European Networks for Energy activities (TEN-E)



Public Perception and Awareness

- The perceived risks to health and safety will be an important issue in determining local public support for any CCS project.
- The very long-term safety of storage sites will be particularly relevant.
- Full scale demonstrations should go a long way towards influencing this perception.
- An adequate regulatory framework that addresses perceived risks is also very important.
- Information and education could also play an important role in gaining public support.
- The topic will be covered in some detail in this session.



International co-operation

- In many ways this is the most critical of the issues.
- In the EU, for example, we can address the various issues and are at least reasonably confident that commercial deployment of CCS will take place around 2020.
- However, even with very rapid deployment, the impact on global CO2 emission and on slowing global warming will be small.
- All countries that emit significant quantities of CO2 need to work quickly towards CCS deployment.
- The best way to do this is to work together to share experience and knowledge and some of the costs. *Issues and mechanisms to be covered in the next session*.....



Theme III programme

- Legal and Regulatory Issues
- Risk Assessment
- Societal Issues related to CCS Deployment
- Public Outreach and Education
- Discussion among panellists
- Audience Interaction