

Carbon Sequestration Leadership Forum



***STAKEHOLDER WORKSHOPS
TECHNICAL PERSPECTIVES
Chairs***

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Stakeholders Dialogue

Technical Perspective

- World storage capacity appears to be large and widespread but, with pressure for global capacity figures, need more standardised methodologies for assessment; taskforce?
- Saline aquifers provide main capacity; depleted oil/gas fields important locally; EOR useful in places; ECBM and coal storage uncertain
- Storage technology is largely available; good experience with oil reservoirs; not much experience to date with gas reservoirs; less information about flow properties for deep saline formations; deep, unmineable coal least well understood
- Potential for geologic storage to be very safe; evidence of effective storage; site dependant; storage security should increase over time; biggest risks have been identified and have means to prevent such risks
- Capture side is critical due to cost; the issue of the optimum capture technologies will not be resolved overnight



Stakeholders Dialogue

Technical Perspective

- Public acceptance is key; the technical community has confidence in CCS but the broader community has yet to be convinced
- Inform public about the impact (costs) of climate change; focus communication at a local, project specific level; get endorsement from broad range of stakeholders; encourage open, transparent communication; educate public on various GHG mitigation technologies to allow for informed debate
- Comprehensive monitoring and verification is a key component of developing stakeholder confidence in the sustainability of CCS, particularly in providing reassurance on the the issue of leakage
- CCS technologies will be a very important part of the portfolio of CO2 mitigation responses; CCS should not be seen as competing with renewables or efficiency; we need them all!



Stakeholders Dialogue

Technical Perspective

- There is a need for much better costings for CCS; costs, especially capture component, need to be brought down; express costs on common basis in terms of \$ per tonne CO₂ avoided; recognise costs for same technology will vary by geographic region
- Retrofit an issue
- Commercialisation requires stronger market signals through greater recognition of the need for deep emissions reduction; reduce financial risk
- Collaborative, cross-disciplinary arrangements are crucial for taking CCS forward
- Involvement of developing countries critical; technology transfer is important but costs are involved
- Need to act more quickly; more demonstration projects needed now; must not be unreasonably burdened with regulatory and liability/responsibility issues



Geosequestration related activities underway or **proposed**





CO₂ enhanced oil recovery underway or proposed





CO₂ enhanced coal bed methane pilots undertaken or proposed





Comprehensive CO₂ monitoring & verification underway or **proposed**

