



Report from CSLF Technical Group to Joint Meeting

Trygve Riis, Technical Group Chair

September 23, 2011

Beijing, China



Meetings since last report



- Since last meeting in Warsaw, the following meetings have been held:
- Workshop and PIRT meeting in Al Khobar, Saudi Arabia, February 2011
 - Very successful workshop on storage and monitoring of CO₂ with excellent participation from storage projects.





Meetings since last report



- **Technical Group meeting with Task Force meetings in Edmonton, Canada, May 2011.**
 - **Two projects nominated for CSLF recognition:**
 - **Zero Emission Porto Tolle (ZEPT)**
 - **Jänschwalde Project**
 - **Visit to CSLF recognized Quest project**
- **Technical Group Ex.Co. have telephone meetings each month**





Beijing meeting



- **PIRT meeting Monday 19.09**
- **Task Force Risk Assessment 20.09**
- **Task Force Assessing Progress on Technical Issues**
- **Technical Group 20. and 21.09**





Technical Group meeting 20-21.09



- **4 new projects nominated for CSLF recognition:**
 - **SaskPower CCS Project**
 - **CGS Europe Project**
 - **Rotterdam Opslag en Afvang Demonstratieproject (ROAD)**
 - **CO₂ Capture Project, Phase 3**



Technology Roadmap



The Carbon Sequestration Leadership Forum Technology Roadmap provides a pathway to the commercial deployment of integrated CO₂ capture, transport, and storage technologies.



Update of Technology Roadmap



- **Current TRM:**
 - Update of Project report
 - Update of country activities
- **Major revision every 3 year, next in 2013, coincide with Ministerial meetings**
- **Module 2 with projects and country reports will be web based and on the CSLF web site**
 - Updated at least once a year
- **Technical Group Ex.Co. will propose a revised format for the TRM**



TF on Assessing Technical Issues



- **4 Groups:**
 - **Capture Technologies (US)**
 - **Transport and Infrastructure (NL)**
 - **Storage and Monitoring (CA)**
 - **Integration (GCCSI)**
- **Good progress in the Storage WG (Stefan Bachu with substantial resource support from Norway)**
- **Transport need new chair**
- **Discussion about compression (capture or transport?)**



Risk and liability task force



- **TG endorse the workplan for a new Policy Group / Technical Group Task Force on Risk and Liability Assessment for Geological Storage of Carbon Dioxide**
 - **George Guthrie will report on it under the next agenda item.**





Technical Workshops



- **GCCSI asked CSLF to cosponsor a workshop on integration in London, November 3, 2011**
 - **CSLF recommended several CSLF recognized projects to attend**
 - **Invitations to projects sent out Wednesday**
- **Possible technical workshop on capture in June in conjunction with next TG meeting**
 - **Bergen, Norway, with visit to TCM Mongstad**
- **Exploring the potential for a workshop on transport**
- **Our intention to hold a technical workshop at least once a year.**



Technical Group Five-Year Action Plan



- **Action Plan 1: Technology Gaps Closure**
- **Action Plan 2: Best-Practice Knowledge Sharing**
- **Action Plan 3: Energy Penalty Reduction**
- **Action Plan 4: CCS with Industrial Emissions Sources**
- **Action Plan 5: CO₂ Compression and Transport**
- **Action Plan 6: Storage and Monitoring for Commercial Projects**



Technical Group Five-Year Action Plan



- **Action Plan 7: Technical Challenges for Conversion of CO₂ EOR to CCS**
- **Action Plan 8: Competition of CCS with Other Resources**
- **Action Plan 9: Life Cycle Assessment and Environmental Footprint of CCS**
- **Action Plan 10: Risk and Liability**
- **Action Plan 11: Carbon-neutral and Carbon-negative CCS**
- **Action Plan 12: CO₂ Utilization Options**



Technical Group Five-Year Action Plan



- **The action plan will be revised and sent out to TG delegates**
- **TG delegates reports back on**
 - any additional actions
 - the most important actions for each country
 - determine coverage by other international organizations
 - interest in taking lead on any of the actions
- **Complete program plan for at least one of the actions before Bergen (template for others)**