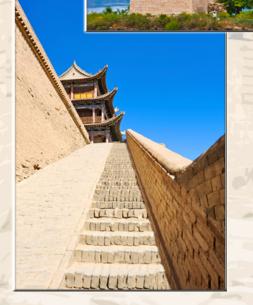




Report from CSLF Technical Group to Joint Meeting



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

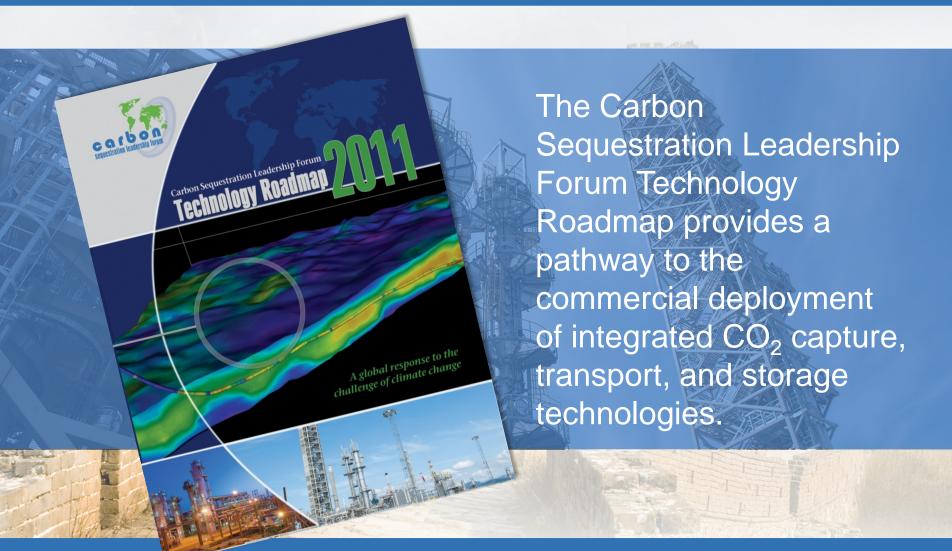


- 4 new projects nominated for CSLF recognition:
 - SaskPower CCS Project
 - CGS Europe Project
 - Rotterdam Opslag en Afvang Demonstratieproject (ROAD)
 - CO₂ Capture Project, Phase 3



Technology Roadmap







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)