

Presentation from PIRT

Technical Group Discussion and Actions

Clinton Foster
PIRT Chairman

Points for approval

- Revision of the PIRT Terms of Reference
- New CSLF Project submission form
- Approach to increase CSLF uptake return to members – workshops for CSLF members?
- Update schedule for the CSLF Technology Road Map – analysis method agreed
- Recommendation to form a new taskforce
 - Measuring progress on closing the technology gaps
- Recommendation to put forward the Gorgon Project for CSLF recognition

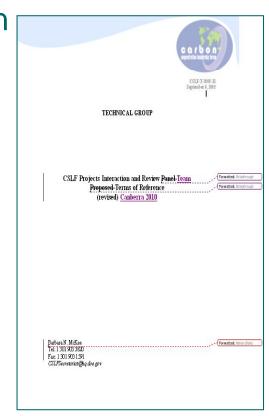
 CSLF Technical Group Meeting, 15-17 March 2010, Pau. France



Revision of PIRT Charter and Terms of Reference

- Agreed at Technical Group in London on 11 October 2009 to review the PIRT Terms of Reference and define future action plans
- ✓ Revised PIRT Terms of Reference

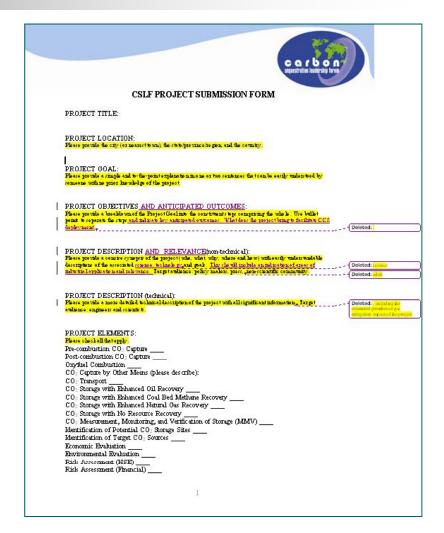
 [TAB 4]





Project Submission Form

✓ Updated project submission form[TAB 5]





Actions for engaging CSLF recognised projects and attracting new projects

- Ask the projects what they want out of CSLF recognition
- Prompted by comments from stakeholders, developed three questions for CSLF projects:
 - What do you need to make the project succeed?
 - What advantages do you see from greater CSLF project interaction?
 - What else should the CSLF do?
- The responses will help the PIRT to develop a plan for attracting new projects

ACTION: send questions to CSLF project proponents and develop plan for attracting new projects based on responses



- Analysis of CSLF projects in relation to Gaps
 - Agreed to recommend formation of a new Task Force: To assess progress on closing the technology gaps
 - TF will be led by Technical Group Vice-Chair (Australia)



TF Assessing the progress of closing the gaps

- 4 Working Groups:
 - Integration [lead GCCSI, members ...]
 - Capture [lead USA, members ...]
 - Transport and Infrastructure [lead Netherlands, members ...]
 - Storage [lead Canada, members France, USA, ...]

ACTION: Recommend formation of new Task Force "Assessing the progress of closing the gaps" to Technical Group

ACTION: Volunteers required for Working Groups

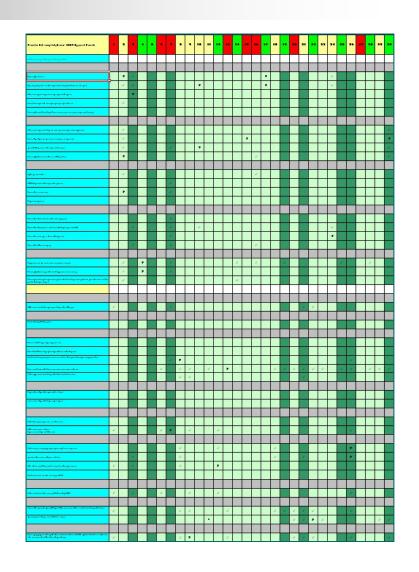




Analysis of CSLF projects in relation to Gaps (1)

- Project report card: <u>Technology Gaps Matrix</u>
- Identify which gaps CSLF projects currently address
- Help identify projects to address remaining gaps

ACTION: Secretariat to send
Technology Gaps Matrix to
CSLF projects for input
on the new project sheet [TAB 5,
4-9]

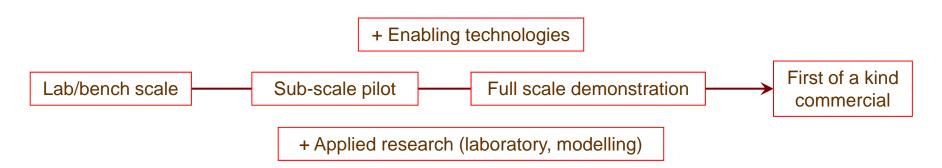


CSLF Technical Group Meeting, 15-17 March 2010, Pau, France



Analysis of CSLF projects in relation to Gaps (2)

- CCS projects Technology Readiness Level analysis
- Modelled on <u>NASA Technology Readiness Levels</u>
- Assess CSLF CCS projects within the TRL framework



ACTION: Subgroup formed (Norway, NETL/USA, GCCSI) to undertake CSLF Project Gap Matrix and Technology Readiness assessment; estimated completion date June 2010



Actions for engaging CSLF recognised projects and attracting new projects (1)

- Bring projects together through a "projects workshop" to exchange technical information and learnings, address gaps, and foster greater interaction
- Inform projects about existing networks and other resources they have access to
- Visibility use CSLF links with other organisations to promote CSLF projects
- Organise projects workshop(s) in collaboration with key CCS events

ACTION: Australia & GCCSI to complete first draft of workshop proposal **Need to coordinate with the Research Networks set up by IEA GHG**

www.c/lforum.org

Detailed review of the 11th PIRT meeting

Actions for engaging CSLF recognised projects and attracting new projects (3)





Assessment of outcomes from completed projects

ACTION: Secretariat to complete summaries of projects

ACTION: a summary of completed projects is to be completed for the CSLF website, modelled on IEA GHG website / matrix

CSLF Technical Group Meeting, 15-17 March 2010, Pau, France

Detailed review of the 11th PIRT meeting

Recommendation to extend CSLF charter beyond 2013

CSLF Charter: 2013 and beyond

- 7. Commencement, Extension, Modification, Withdrawal, and Termination
- 7.1 Commencement and Modification
 - 7.1.1 This Charter will commence on June 25, 2003 and will continue for 10 years unless extended or terminated.
 - 7.1.2 This Charter may be modified in writing at any time by unanimous consent of all Members.
- 7.2 Extension, Withdrawal and Termination
 - 7.2.1 By written arrangement, the Members may extend this Charter for additional periods.
- Many new and existing projects are projected to commence or be completed after 2013
- Enhance potential for additional CCS projects by extending CSLF beyond its current termination date of 2013

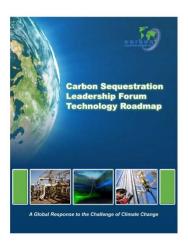
ACTION: that PIRT recommends extension of CSLF beyond 2013 to Technical Group CSLF Technical Group Meeting, 15-17 March 2010, Pau, France

www.c/lforum.org

Detailed review of the 11th PIRT meeting

Schedule for updating Technology Roadmap

- ✓ Developed schedule for next update of Technology Roadmap:
 - 1 June 2010: Complete revision of technology gaps section and circulate to PIRT
 - 1 July 2010: Receive updates on national programs and projects
 - 31 July 2010: Revised Technology Roadmap circulated to PIRT
 - October 2010: Table updated TRM
 - November 2010: present updated road map at annual CSLF meeting



ACTION: Norway and NETL (USA) to complete revision of technology gaps by 1st June with help from GCCSI

ACTION: delegates to provide country updates (section 2.5) by 1st July

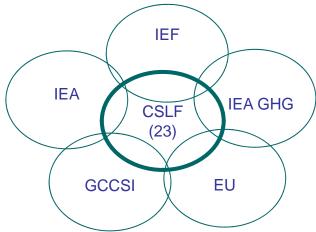
ACTION: projects to provide updates by 1st July

ACTION: GCCSI to provide updated sections 2.1, 2.3, 2.4. New economics needed

www.c/lforum.org

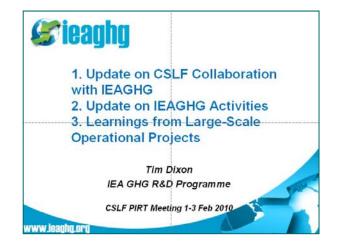
Detailed review of the 11th PIRT meeting

Review of current collaboration and opportunities for new collaboration



ACTION: Canada to lead preparation of proposal to IEA GHG for study updated study of storage in unconventional geological media: scope may include assessment of resource conflict.

ACTION: Delegates to consider proposing research projects for IEA GHG and other opportunities
Timetable May/November 6 monthly cycles





CSLF Technical Group Meeting, 15-17 March 2010, Pau, France



Prioritisation of PIRT activities / PIRT action plan

Near term (next 6 months)

- Populate technology gaps matrix and technology readiness level
- Develop plan for attracting new projects using input from new project questions
- Develop plan for implementing a projects workshop
- Prepare summaries of completed projects for web
- Update Technology Roadmap (October 2010)
- Develop and submit project proposals for study of storage of carbon dioxide in unconventional geological media (examples basalts, shales); project scope may include analysis of resource conflict



Prioritisation of PIRT activities / PIRT action plan

Long term (next >18 months)

- Complete periodic assessments of gaps and upgrades of the TRM
- Promote awareness of activities among the CSLF members and stake holders
- Project engagement workshops, events, networks
- Collaboration with other organisations

Recommendations to the Technical Group

- Extend the CSLF Charter beyond 2013
- Complete roadmap update by October 2010
- Undertake extensive gaps analysis (in context of projects)
- Form new Task Force "Assessing the progress of closing the gaps" *Identify the participating countries*.
- Implement action plan to engage CSLF projects
- Pursue opportunities for collaboration
- Prioritised near and long term activities for PIRT / PIRT action plan
- TG accept the PIRT recommendation that the Chevron JV Gorgon Project becomes a CSLF recognised Project.

Signed Letter of Nomination

CSLF - Gorgon CO2 Injection Briefing - March 2010