

CSLF PIRT Meeting

Christopher Consoli

Rome, Italy

16-19 April 2013



CSLF PIRT Meeting: Rome 2013

Summary outcomes from Perth PIRT Meeting

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Agenda 3

PIRT Meeting Perth, Australia

Summary of Consensus Reached

- Two Projects approved
 - South West CO₂ Geosequestration Hub Project
 - Western Australia
 - CarbonNet Project
 - Victoria, Australia

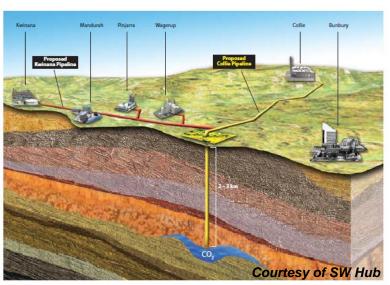


Figure 2 - A conceptual diagram of the South West Hub

PIRT Meeting Perth, Australia

Summary of Consensus Reached

- PIRT recommends that the Technical Group adopt the simplified Gaps Checklist
- CSLF "Projects" website with interactive map now live



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Review of CSLF Project Submission Form

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Review of Submission Form (1)

Submission Form purpose

- General information about Project
- Categorization of Project
- Decision making for PIRT recommendation to TG

Background: relatively unchanged since 2006

- Level of details variable from 4-22 pages + Larger documents due to checklist
- Updated Project Submission Checklist
 - adopted Perth 2012



Review of Submission Form (2)

Recommendation of the PIRT Bergen,

- Simplify form
- Utilize information provided

Proposed Project Submission Form

- CSLF focus on large-scale CCUS Projects
- Information must be relevant to all stakeholders
- Several legacy categories
- Remove duplication



Proposed Submission Form (1)

New Checklist

- Categorization
 - Building a matrix for projects and CCS technologies
 - 33 categories
- Simplified but effective
 - Designates a Project's identity and their focus
 - Easily utilized by PIRT, Task Forces and Working Groups

Aim: good level of granularity allow dissemination of data to all stakeholders





Project Elements

Storage (MMV)

The project sponsor is currently being requested to check all that apply from a list of possible project features, many of them redundant with items in the Gaps Analysis Checklist.

Suggest that this section be eliminated.

Please check all that apply.		
	Pre-combustion CO ₂ Capture Post-combustion CO ₂ Capture Oxyfuel Combustion CO ₂ Capture by Other Means (please describe): CO ₂ Transport CO ₂ Storage with Enhanced Oil Recovery CO ₂ Storage with Enhanced Coal Bed Methane	 Identification of Potential CO₂ Storage Sites Identification of Target CO₂ Sources Economic Evaluation Environmental Evaluation Risk Assessment (HSE) Risk Assessment (Financial) Other (please describe):
	Recovery	7
	CO ₂ Storage with Enhanced Natural Gas Recovery	
	CO ₂ Storage with No Resource Recovery	
•	CO ₂ Measurement, Monitoring, and Verification of	

Proposed Submission Form (3)

Information Availability

The project sponsor is currently being requested to:

"Please also provide information about the relevance of the project to the overall aims of the CSLF and to carbon capture and storage technology in general."

Suggest that this sentence be eliminated.





Information Availability

- The project sponsor is currently being requested to provide answers to three questions pertaining to information availability from the project.
 - Suggest that these three questions be revised.

Please also provide answers to the following questions: Is the project management willing to share non-proprietary project information with other CSLF Members? _____ Will the expected information from the project be sufficient to allow others to make informed estimates of the technology's potential technical performance, costs, and benefits for any future applications? _____ Will English-language project summaries be available for posting at the CSLF website?

(Please also provide details on how, and how often, these summaries and other project information will be made available.)



Relevance to CSLF Gaps Analysis

Suggest that this section be eliminated

Project Nominators

- Suggest that this section be revised
 - Add "Email notification to the CSLF Secretariat (cslfsecretariat@hq.doe.gov) is an acceptable alternative to a signature."

Proposed Submission Form (6)

CSLF Gaps Analysis Checklist

Items in the Gaps Analysis Checklist are not gaps.

 Suggest that this be re-titled as "CSLF Project Elements Checklist".



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Discussion of Knowledge-Sharing from CSLF-Recognized Projects

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Knowledge-Sharing

PIRT Mandate

 Appropriate mechanisms for the recognition, assessment and dissemination of projects and their results (Terms of Reference)

Workshops

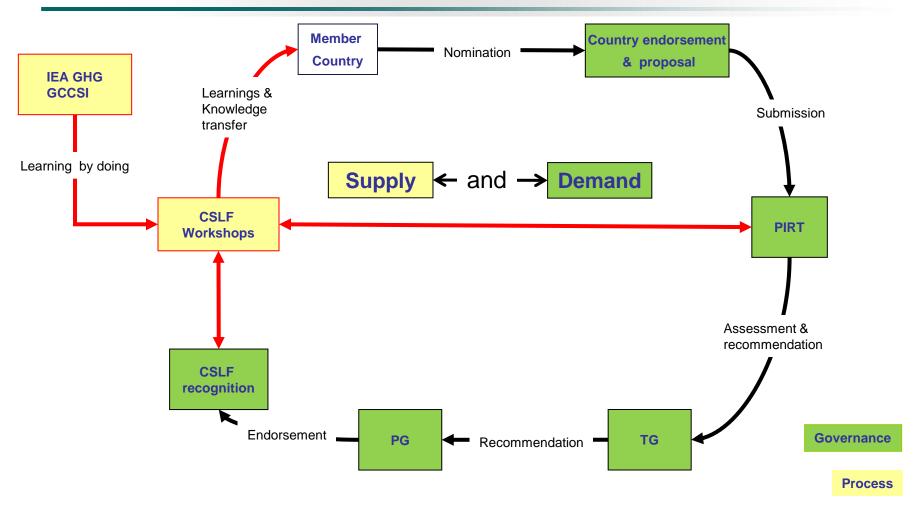
- Important process in the knowledge sharing cycle
- Regular feature of CSLF meetings

Could we do this better?

Carbon Sequestration leadership forum

www.c/lforum.org

Knowledge-Sharing: Workshops



Adopted: CSLF PIRT Meeting, 03 March 2011, Al Khobar, Saudi Arabia

Carbon Sequestration leadership forum



Knowledge-Sharing: Knowledge Hub (2)

- Knowledge hub
 - Website-co-branded, single platform
 - Co-operation with GCCSI approved (Beijing, 2011)



Knowledge Hub = Knowledge Transfer

- The Global CCS Institute has offered to assist the CSLF in its online knowledge sharing approach
- For the CSLF, this will:
 - Improve our ability to disseminate information
 - Link our information into the Institute's knowledge hub
 - Improve our web presence
 - Reduce our operational costs and risks
- The Institute will not require any fees for this assistance as it sees it as core to its mission of knowledge sharing



www.c/lforum.org

Knowledge Hub- Architecture

A distinct visual identity for the CSLF, integrated to the hub

The "go to place" for information on CCS technologies and knowledge sharing

CSLF Site

Knowledge Hub Site

Global knowledge sharing platform through complete connectivity

Other Knowledge
Sharing Sites
e.g. EC Project Network



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Knowledge Hub- Dissemination

Content converted to web-ready formats

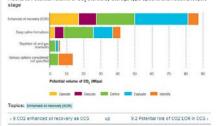
9.1 Introduction

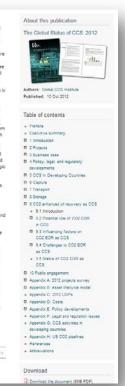
injecting CD₂ into mature of fields has been a method used for enhancing oil production for about 40 years. Enmanced of recovery (CDR) refers to a suite of extrincipies that can be applied to reservoirs with declining oil production to maintain or improve production. Most fields considered for ECR have altered y undergroup primary production—in which the natural reservoir pressure. White place is the production in the production in the prescrip water for restore reservoir pressure. Using CO₂ for ECR (CO₂ ECR) has proven successful in rejuversiting oil production in many maturing of fields and extending their productive he was by decides—in the degree of improvement in production is highly dependent on site aspecific reservoir characteristics and oil composition, and not all oiffelds are amenable to CO₂ ECR.

Of the more than 130 CO₂ EOR projects in operation globally, the considerable majority late place in North America and offees, about half are in a peoplog relating hown as the Permiss Basin in West Tosas. There are other commercial CO₂ EOR operations origining in Cannels, Turkey, and Hungary, and pilet projects scattered on untimer a fact. The historical development of CO₂ EOR has largely been constrained by the availability of inexpensive CO₂ in the US. Are penaturally occurring accumulations of CO₂ (HoO.2) are found in people inexervine such as McEmp Comm. Dec Conyes Ceep, and Sheep Mountain in Colvends and Stree Committee (House Control and America) which the CO₂ can be produced relatively inexpensively. Cop produced by human activities, such as those associated with extraction or burning of fossil fuels or other industrial process, is a considered antimeropoenic CO₂ (A-CO₂) and is also used for CO₂ (EOR. Because A-CO₂ must be separated or captured using physical and othermical processes it is generally more excessive and historically less suitable than N-CO₂. ACO₂, however, in own becoming increasingly recognised as an economically visible option as more operators globally are interested in CO₂ EOR agrees and analysis of the CO₂ is surprised and the control of the CO₂ is only and the control of the CO₂ is surprised by operations to produce arrund 300,000 bill of oil per day. The expected supply of CO₂ is 100 for EOR in International control of EOR and graphics than by any other storage option for CO₂ (Figure 26.5 in International control of CO₂ EOR agreed by any other storage option for CO₂ (Figure 26.5 in International control of CO₂ EOR agreed by any other storage option for CO₂ (Figure 26.5 in International control of CO₂ EOR agreed supplied to the control of CO₂ EOR agreed to CO

This chapter presents the role CO_2 EOR may play in CCG (along with some of the technical and legal aspects of CO_2 EOR relative to carbon storage) and describes the economic, commercial, and regulatory landscape in fluencing these operations.

FIGURE 65 Potential volume of CO₂ stored by storage type options and Asset Lifecycle





CSLF projects clearly identified



Reports can be translated to multiple languages

Translations

- Summary report in Chinese (全球碳捕集与封存现状 总结报告: 2012)
- Summary report in Japanese (世界のCCSの動向: 2012年)
- 💌 Summary report in Korean (요약 보고서 –세계 CCS 동향: 2012)

Topics: Demonstration Projects Capture Storage Transport













Carbon Sequestration leadership forum

www.c/lforum.org

Knowledge Hub- Project Interaction

CSLF-members only platform

- A model to be able to share individual "insights" for CSLF member countries and Projects
- Linking to an online handbook for Project updates
- An private discussion forum for members of CSLF working groups
- Classification of CSLF content to improve information find-ability

Knowledge Hub- Next Steps

- 1. Agreement from the PIRT to go forward with this model
- 2. GCCSI to provide a high level web design for approval
- 3. Further thinking required regarding the list CSLF project data (map view) as the Institute follows a different approach in relation to:
 - Data capture from projects
 - Criteria for project listing
 - Data quality
 - Listing of completed / cancelled projects
- Classification of "key content" to be prioritized for translation / conversion into other formats
- 5. Migration of content to the new platform

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Future Roles for PIRT in Technical Group Action Plan and Discussion of PIRT Terms of Reference

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PIRT Terms of Reference

Current Document

Last revised in March 2010

Review

- Good governance
- Strengthen Terms of Reference

New Terms of Reference

Potential for revision if required

PIRT Terms of Reference: Background

- 1. Help CSLF achieve its goals
- Gaps and priorities identified in the CSLF Technology Roadmap
 - Fourth TRM upcoming
- 3. Appropriate mechanisms for the recognition, assessment and dissemination of projects and their results

 **City and Completed CSLF Recognized Projects (click on a link for more information):

 **Output Projects | O Completed Pro





PIRT Terms of Reference: Members

- A core group comprising Members of the Technical Group, or as nominated by a CSLF Member country
 - Recommendations should be reached by consensus of a core group
- An ad-hoc group of Stakeholders comprising representatives from CSLF recognized projects

PIRT Terms of Reference: Functions

- 1. Assess and recommend Projects to TG
- 2. Identify new Projects
- 3. Framework for periodically reporting on Projects
- 4. Review CSLF Project portfolio
 - Identify synergies, complementarities, and gaps
- Revisions of TRM
- 6. Foster collaboration for Projects
- 7. Organize periodic events to facilitate the exchange of experience and views



Future Roles for PIRT: Vision

- 1. Collection and collation of the best data available
- 2. Dissemination of this data as widely as possible

Knowledge transfer (ToR)



Accelerate deployment of CCS (CSLF)



- CSLF Member Country Reports (Edmonton, 2011)
 - Need a new platform for reporting
- Workshops
 - Modify ToR to reflect importance of workshops
 - Need Workshop Technical report
- CCS Knowledge Hub
 - Single platform for knowledge transfer
 - Project interaction





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