CSLF Joint Task Force on Offshore CO_2-EOR

Presentation at
the International Workshop on Offshore
Geologic CO_2 Storage
Austin, Texas, USA,
April 19 – 20, 2016
Lars Ingolf Eide, Norway

Task Force Purpose

- Summarize current assessment or understanding (using available analyses) on the status of global offshore CO_2-EOR storage potential;
- Identify existing projects and characterization activities worldwide on offshore CO_2-EOR storage and progress to date;
- Identify the technical barriers/challenges to offshore CO_2-EOR storage (e.g. subsea technology, availability of CO_2, HSE, monitoring, use of exiting offshore facilities; transport challenges and R&D opportunities);
- Identify potential opportunities for global collaboration; and
- Include conclusions and recommendations for consideration by CSLF and its member countries.

The report will focus on issues particular to CO_2-EOR and be based on

- CSLF reports
  - Technical Barriers and R&D Opportunities for Offshore, Sub-Seabed Geologic Storage of Carbon Dioxide, Sept. 2014
  - Technical Challenges in the Conversion of CO2-EOR Projects to CO2 Storage Projects, Sept. 2013
  - Expand the CO_2-EOR parts in these reports
- Other available literature, particularly post-2014
- New developments, input from Task Force members

Timeline

- Iniated in Riyadh November 2015
- End June 2016: Presentation of overall plan and any activities at the CSLF Mid-Year Meeting.
- Beginning October 2016: Present a written progress report or interim report at the CSLF Annual Meeting
- CSLF Mid-Year Meeting 2017: Present draft of final report, with a
- September 2017: Final report ready
- CSLF Annual Meeting 2017: Present final report

Status

- Draft report outline distributed
- Participants recruited

Member state	Persons
Brazil	1
Canada	1
IEAGHG	1
Norway	4
USA	1

Report outline

- Introduction
  - Purpose
  - Mandate
- Offshore CO_2-EOR potential
  - Brief summary of how CO_2-EOR works
  - Global potential; expansion of the report of the offshore storage report
- Status of offshore CO_2-EOR projects
  - Brief review of earlier pilots
  - The Lula project

Report outline

- Technical solutions for offshore CO_2-EOR
  - Topside
  - Sub-sea
  - Wells
  - HSE
  - CO_2 properties?
  - CO_2 supply chain
- Risk analysis and simulation tools
  - Existing tools and capabilities
  - Applicability of tools and methodologies for onshore CO_2-EOR
  - Technocal challenges and technology gaps
  - R&D opportunities
  - Recommendations

Report outline

- Monitoring, verification and assessment tools
  - Subsurface MVA tools
  - Seafloor to surface water MVA tools
  - Technical challenges and technology gaps
  - R&D opportunities
  - Recommendations
- Summary of regulatory requirements
  - International regulations
  - Specific national reguations
  - Implications
    - Regulations on technology
    - Technology on regulations

Report outline

- Economics – examples
  - Brazil, US GOM, North Sea
- Converting CO_2-EOR to CO_2 storage (based on earlier CSLF report)
- Summary of barriers to offshore CO_2-EOR
- Opportunites
- Recommendations