ADVANCING GLOBAL OFFSHORE CCS

Proposing a CSLF Task Force: International Initiative for CCS Subsea (iCCS_c)

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Proposal – A Task Force

• Assess Barriers & Technology Needs
  – Would Serve Many Nations
  – Share (Synergize) Technology Strengths
  – Share Experience(s)

• Success Criteria
  – Accelerate Deployment of Offshore Field Test(s)
Studies of Offshore GS Resources*
(Not an Exhaustive List)

*Only Porous Media Studies – excludes coal-bed and basalts
Onshore Potential
Relative to Population Centers

Laske and Masters, 1997
Schneider, et al., 2003
Offshore Potential
Relative to Population Centers

Laske and Masters, 1997
Schneider, et al., 2003
Offshore Potential
Relative to Population Centers & CO2 Sources

Laske and Masters, 1997
Schneider, et al., 2003
Offshore Injection To Date*

There seem to be barriers to actually *doing*...
Proposal – A Task Force

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Scope

Policy
• Assess Cost Issues
• Strategic Deployment Optimization
  – (Techno-Economic Modeling)
• Offshore Up-scaling Policy Issues
• Economic Drivers – What is Business Case?

Technical
• Offshore Geologic Characterization Issues
  – Advantages & Disadvantages
• Offshore Monitoring Issues
• Viability of Offshore EOR
• Collaboration Opportunities with Existing/Emerging Projects?

Technical & Policy
• Assess Global Expertise Centers (e.g., Research / Academic)
• CO2 Transport Challenges (Ship vs. Pipeline)
  – International Trade
• Recommend Next Steps
REFERENCES


Gulf of Mexico Hi-Resolution 3D-Seismic Data Acquisition: 21 - 29 October, 2013
Global Offshore Potential is Great
We Must Take Advantage of it
Gulf of Mexico Hi-Resolution 3D-Seismic Data
Field Record – 27 October, 2013
“There seem to be barriers to actually doing…”

We take a lesson from the collaborative model that was successful in getting the Frio pilot kick-started and from the model that DOE used in the Partnerships program.

The Frio Pilot Project’s Collaborators included:

DOE NETL
DOE LBNL
DOE LLNL
Australian CO2CRC (CSIRO)
Alberta Research Council (Canada)
University of Texas at Austin, Bureau of Economic Geology
U.S. Geological Survey
Texas American Resources
Schlumberger
Praxair
Core Laboratories