



Breakout session on CO₂
Storage and EOR



CO₂ Storage Data Consortium

- Sharing of reference data
- Explored technical solutions for data sharing
- Presentation at GHGT
- Secure international co-funding – invite other nations
- Expand beyond subsurface?



LLNL-Norway cooperation

- Balancing monitoring program effectiveness and cost
- Pressure buildup toolkit developed and tested on Snøhvit data set
- Well integrity atlas
 - Risk assessment of legacy wells



Upscaling CO₂ Foam EOR for Mobility control

- Lab to field pilot
- Promising results from lab experiments
 - Do we understand the fundamental processes?
- Foam injection in field pilots this fall/winter



Norwegian full scale project

- CCS proven but difficult to get to commerciality (no strong business case)
- What business models go beyond “one source; one sink?”
 - North Sea as storage hub?
- Areas in offshore environment that need further attention include:
 - Pressure relief systems
 - Pipeline design
 - Subsea systems
 - Well design and integrity
 - Cost effective reservoir characterization
 - Overburden monitoring



Status offshore CO₂ EOR development

- Climit funded projects
 - Aker Solution project on Subsea CO₂ Separation initiated
 - Inflow Control systems for CO₂ shut off tested successfully at Weyburn



Illinois-Norway cooperation

Detailed analysis of microseismic data from Illinois Basin – Decatur Project

- Combining active and passive seismic data to potentially improve imaging
- What can be learned about fluid and pressure front tracking; fault reactivation?



CSLF Task Force on Offshore CO₂ EOR

- Report currently in final review
- To be published late October on CSLF website



Potential New Collaboration

- Norway led CO₂ foam EOR research at the two field pilots, West Texas
 - Potential collaboration with Southwest Regional Partnership
 - Contribute to monitoring program
- US led Kemper County storage site (CarbonSAFE)
 - Potential collaboration on microseismic analysis and CO₂ storage modeling and monitoring
- 2nd International Workshop on Offshore geological storage
 - Tools for assessing infrastructure
 - Qualify subsea systems for CO₂
 - Monitoring
 - Business models for CO₂ EOR
 - Transport of CO₂



Discussion - summary

- Offshore CO₂ storage pilot in US
 - GoM, shallow water, near shore to cost effectively evaluate deep water CO₂ storage or EOR recovery processes?
- Interest in carbon footprint of CO₂-EOR. Could build from existing US LCA studies.
- Need for cost efficient monitoring