

Carbon Sequestration leadership forum

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Review of Technical Group Action Plan and Possible New Technical Group Activities

**PIRT Meeting
April 30th, 2017**

Completed Actions

(previous four years)



- **Technical Challenges for Conversion of CO₂-EOR Projects** *(Final Report in Sept. 2013)*
- **CCS Technology Opportunities and Gaps** *(Final Report in Oct. 2013)*
- **CO₂ Utilization Options** *(Final Report in Oct. 2013)*
- **Review of CO₂ Storage Efficiency in Deep Saline Aquifers** *(Final Report in June 2015)*
- **Reviewing Best Practices and Standards for Geological Monitoring and Storage of CO₂** *(Final Report November 2014)*
- **Technical Barriers and R&D Opportunities for Sub-Seabed CO₂ Storage** *(Final Report in Sept. 2015)*
- **Supporting Development of 2nd and 3rd Gen. CO₂ Capture Technologies** *(Final Report in Dec. 2015)*

Ongoing Actions

(since 2015)



- **Off-Shore CO₂-EOR** (Since 2015, Norway Lead, *Final Report due at 2017 Ministerial Meeting*)
- **Bioenergy with CCS** (Since 2015, USA Lead, *Final Report due at 2017 Ministerial Meeting*)
- **Improved Pore Space Utilisation** (Since 2015, UK and Australia Lead, *Final Report due at 2017 Ministerial Meeting*)
- **Industry CCS** (Since 2016, France Lead, Final Report due in 2018)

Possible Future Actions



- **Geo-steering and Pressure Management Techniques and Applications (Geo-steering incorporated in to pore-space utilization)**
- **Advanced Manufacturing Techniques for CCS Technologies**
- **Dilute stream/Direct Air Capture of CO₂**
- **Global Residual Oil Zone (ROZ) Analysis and Potential for Combined CO₂ Storage and EOR**
- **Study/Report on Environmental Analysis projects throughout the world**
- **Update on non-EOR Utilization Options**
- **Ship Transport of CO₂**
- **Investigation into Inconsistencies in Definitions and Technology Classifications**
- **Global Scaling of CCS**
- **Compact CCS**
- **Capturing CO₂ from Mobile Sources**

Future Actions



Revisit the action list by a smaller group (e.g the group from 2015)

- *Include new actions*
- *Prioritize the most important ones*

Actions discussed

- *Geo-steering and pressure management techniques and applications*
 - *To be redefined (geo-steering covered, include risk management issues)*
 - *Production of hydrogen from fossil sources with CCS (New)*
 - *Proposed by Norway*
 - *UK, Australia, and others? To contribute*