

**Carbon Sequestration leadership forum**

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

**Technical Group Meeting**

**May 1<sup>st</sup>, 2017**

# Completed Actions

*(previous four years)*



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

# Ongoing Actions

*(since 2015)*



- **Off-Shore CO<sub>2</sub>-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

*(continued)*



- **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 CO<sub>2</sub>**
- **Global Residual Oil Zone (ROZ) Analysis and Potential for Combined CO<sub>2</sub> Storage and EOR**
- **Study/Report on Environmental Analysis projects throughout the world**
- **Update on non-EOR Utilization Options**
- **Ship Transport of CO<sub>2</sub>**
- **Investigation into Inconsistencies in Definitions and Technology Classifications**
- **Global Scaling of CCS**
- **Compact CCS**
- **Capturing CO<sub>2</sub> from Mobile Sources**

# Future Actions



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

- *Include new actions*
- *Discuss and prioritize*
- *Propose at late the 2017 CSLF meeting which task forces to start up*

## New 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, Japan to give input*
- *Mineralization (NL)*