Update on Technical Group Activities

CSLF Technical Group Meeting
Chatou, France
4-5\textsuperscript{th} November 2019

Åse Slagtern
Technical Group Chair
CSLF Technical Group responsibility

Identify important technical aspects for implementation of CCS
Current Actions

- **Industry CCS** *(Since 2016, France Lead, Report due October 2019)*
  - Energy Intensive Industries workshop (France/IEAGHG) Nov 2019
- **Non-EOR CO₂ utilization options** *(Since April 2018, USA Lead, Report due October 2019)*
- **Hub and Infrastructure** *(Since 2018, Norway Lead)* Phase “0” completed, updated report Nov 2019
- **Engagement of Academic Community** *(Since April 2019, Australia and UK lead)*
- **Business models Task Force** *(Since April 2019 China continued to CEM CCUS/CSLF Policy group)*
- **Hydrogen workshop** (Norway/IEAGHG) Nov 2019 (“Phase 0” research and literature review completed June 2018)
- **Ad Hoc Committee on TRM up-date** *(Task Force Maximization and Knowledge Sharing Assessment)* *(Since 2019 Norway Lead)*
  - Hubs and clusters (Norway)
  - Leverage large scale projects to promote knowledge sharing (PIRT)
  - Drive cost down through RD&D (Canada/CCS Knowledge Center)
  - Business Models (China/Policy group)
  - Facilitate implementation of CO₂ utilization (USA)
Completed actions

- Hub and Infrastructure Phase 0 *(Final report April 2019)*
- Improved Pore Space Utilization *(Final Report April 2019)*
- Hydrogen production and CCS, Phase 0 *(Final Report June 2018)*
- Bioenergy with CCS *(Final Report in April 2018)*
- Off-Shore CO$_2$-EOR *(Final Report in December 2017)*
- Supporting Development of 2$^{nd}$ and 3$^{rd}$ Gen. CO$_2$ Capture Technologies *(Final Report in Dec. 2015)*
- Technical Barriers and R&D Opportunities for Sub-Seabed CO$_2$ Storage *(Final Report in Sept. 2015)*
- CO$_2$ Utilization Options *(Final Report in Oct. 2013)*
Potential actions

- Feasibility of CO₂ Storage Reservoir Management Activity
- Hubs and Cluster workshop (Norway?)
- Others?
- 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
- Ship Transport of CO₂
- Investigation into Inconsistencies in Definitions and Technology Classifications
- Compact CCS
- Reviewing Best Practices and Standards for Geologic Monitoring and Storage of CO₂ *
- CO₂ Capture by Mineralization *
- Global Scaling of CCS *

*Received a high prioritization score from Working Group on Evaluating Existing and New Ideas for Possible Future Technical Group Actions