

Carbon Sequestration leadership forum

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Update on Technical Group Activities

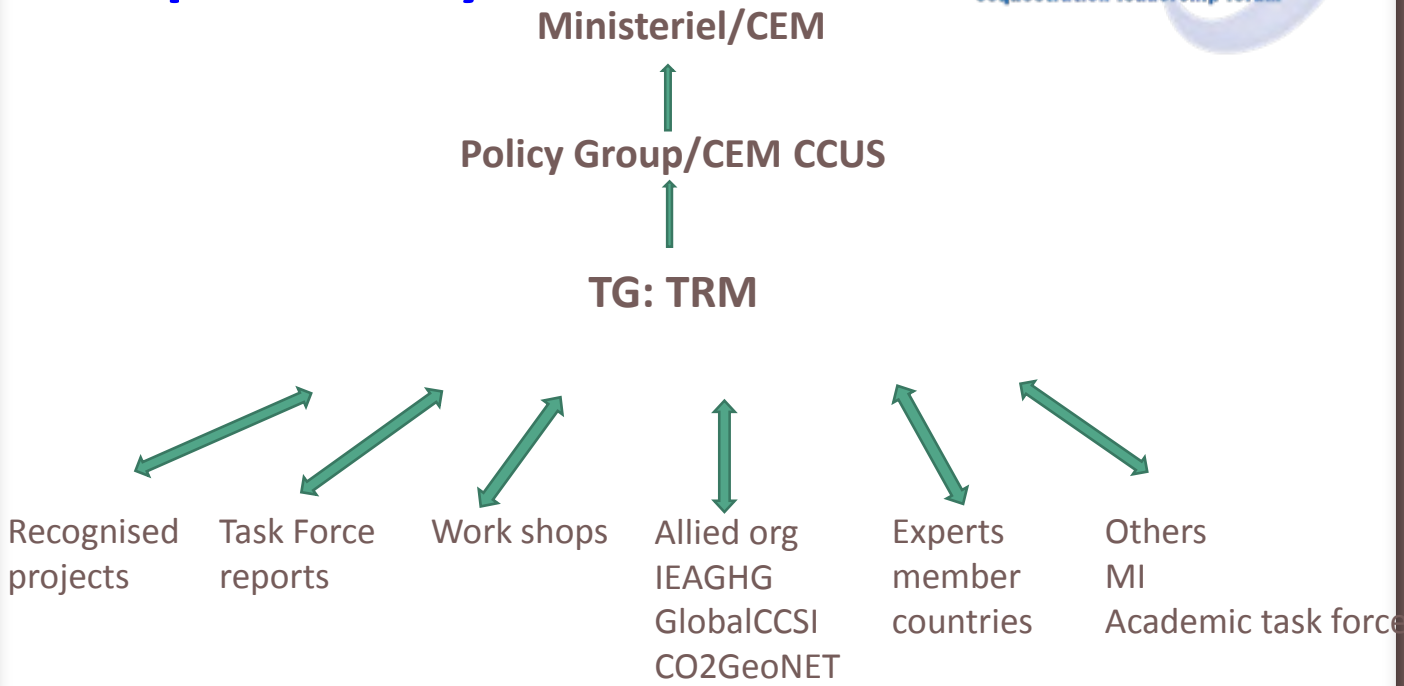
**CSLF Technical Group
Meeting
Chatou, France
4-5th November 2019**

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 CO₂-EOR** (*Final Report in December 2017*)
- **Supporting Development of 2nd and 3rd Gen. CO₂ Capture Technologies** (*Final Report in Dec. 2015*)
- **Technical Barriers and R&D Opportunities for Sub-Seabed CO₂ Storage** (*Final Report in Sept. 2015*)
- **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*)
- **CCS Technology Opportunities and Gaps** (*Final Report in Oct. 2013*)
- **CO₂ Utilization Options** (*Final Report in Oct. 2013*)
- **Technical Challenges for Conversion of CO₂-EOR Projects** (*Final Report in Sept. 2013*)
- **Technical Challenges for Conversion of CO₂-EOR Projects to CO₂ Storage Projects** (*Final Report in September 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