

Carbon Sequestration Leadership Forum

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Messages and Recommendations from the CSLF Technical Group

Åse Slagtern

Technical Group Chair

Messages from the Technical Group



Key Technical Group Program driver

Ministerial Communiqué of 2013 from the 5th CSLF
Ministerial noted:

“The Ministers also stressed that the next seven years are critically important for creating the conditions for CCS to be ready for large-scale deployment by the end of the decade.”

Although significant progress has been made, four years later there are still barriers in place

Messages from the Technical Group



Actions and response of CSLF Technical Group

Produced a **Technology Roadmap** to provide recommendations to Ministers on developments that can facilitate development and deployment of CCS technologies



Messages from the Technical Group



Main changes from TRM 2013

General

- New time horizon for medium- and long-term recommendations and targets,
 - 2025 and 2035 vs. earlier 2030 and 2050
 - Kept 2020 to emphasise the need for immediate acceleration
- Revised background chapter to reflect COP21 targets
 - Introduced quantitative targets that meet IEA 2 °C scenario
- Added section on non-technical measures, including regulations
- NOTE: Defined CCUS as a subset of CCS

Messages from the Technical Group



Recommended targets

- Long-term isolation from the atmosphere of at least 400 megatonnes (Mt) CO₂ per year by 2025 (or permanent capture and storage of in total 1,800 Mt CO₂)
- Long-term isolation from the atmosphere of at least 2,400 Mt CO₂ per year by 2035 (or permanent capture and storage of in total 16,000 Mt CO₂)

Messages from the Technical Group



Main findings of Technology Roadmap

- *CCS is proven to work and has been implemented in the power and industrial sectors*
- *The coming years are critical for large-scale deployment of CCS and there MUST be a sense of urgency to deploy it*
- *Rapid deployment of CCS is critical in the industry and power sectors, especially in those industries for which CCS is the most realistic path to decarbonization*
- *Inadequate government investment is a major barrier to CCS implementation*
- *Costs and implementation risks can be reduced by developing industrial clusters and CO₂ transport/storage hubs*

Messages from the Technical Group



Priority Recommendations

- ***Promote the value of CCS in achieving energy and global climate goals***
- ***Incentivise investments in CCS by developing and implementing policy frameworks***
- ***Facilitate business models for CCS projects***
- ***Implement legal and regulatory frameworks for CCS***
- ***Facilitate CCS infrastructure development***

Messages from the Technical Group



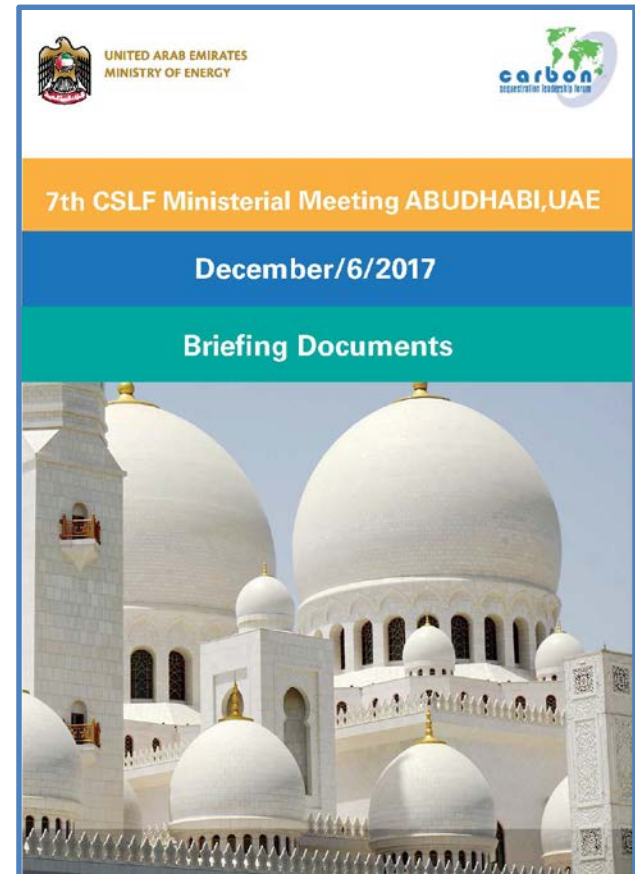
Priority Recommendations

- ***Build trust and engage stakeholders through CCS public outreach and education***
- ***Support RD&D to drive down costs along the entire CCS chain***
- ***Promote knowledge-exchange opportunities***
- ***Accelerate CCS in developing countries by funding CO₂ storage site appraisals and technology readiness assessments***
- ***Facilitate implementation of CO₂ utilization***

Technical Group Documents for 7th CSLF Ministerial Conference



- Technology Roadmap Executive Summary
- Recommendations for overcoming barriers to offshore CO₂ Enhanced Oil Recovery



Messages from the Technical Group



Takeaway message:

***Governments have a critical role
in accelerating
the deployment of CCS.***

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