

**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 5<sup>th</sup> 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



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## *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

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## Recommended targets

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

# 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 CO<sub>2</sub> 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***

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## ***Priority Recommendations***

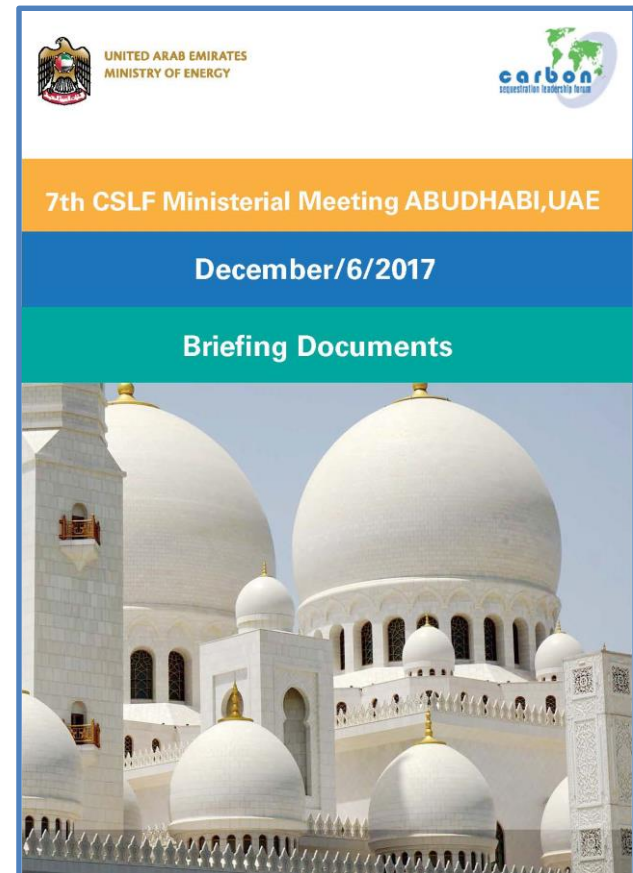
- ***Build trust and engage stakeholders through CCS public outreach and education***
- ***Support RD&D to drive down costs along the entire CCS chain***
- ***Promote knowledge-exchange opportunities***
- ***Accelerate CCS in developing countries by funding CO<sub>2</sub> storage site appraisals and technology readiness assessments***
- ***Facilitate implementation of CO<sub>2</sub> utilization***



# Technical Group Documents for 7<sup>th</sup> CSLF Ministerial Conference



- Technology Roadmap Executive Summary
- Recommendations for overcoming barriers to offshore CO<sub>2</sub> 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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