

# Technical Group Meeting

23 April 2018

Venice, Italy



# Report from Secretariat

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[www.cslforum.org](http://www.cslforum.org)

# Secretariat Report to Technical Group



## Highlights from Abu Dhabi Meeting

Five day meeting,  
including  
Ministerial  
Conference and  
Ministers' site visit  
to Al Reyadah  
CCUS Project



# Secretariat Report to Technical Group



## Highlights from Abu Dhabi Meeting

Ministers identified many key actions needed to accelerate large-scale deployment of CCUS:

- Working together to ensure that CCUS is broadly accepted and supported as part of suite of clean energy technologies
- Leveraging the success of operational CCUS projects worldwide while emphasizing the urgency of developing and executing new CCS projects

# Secretariat Report to Technical Group



## Highlights from Abu Dhabi Meeting

Ministers identified many key actions needed to accelerate large-scale deployment of CCUS:

- Encouraging the development of regional strategies that strengthen the business case for CCUS and accelerate its deployment
- Exploring new utilization concepts beyond CO<sub>2</sub>-EOR that have the potential to add commercial value

# Secretariat Report to Technical Group



## Highlights from Abu Dhabi Meeting

Ministers identified many key actions needed to accelerate large-scale deployment of CCUS:

- Supporting collaborative R&D on innovative, next generation CCUS technologies with broad application to both the power and industrial sectors
- Expanding stakeholder engagement and strengthening links with other global clean energy efforts to increase public awareness of the role of CCUS

# Secretariat Report to Technical Group



## Highlights from Abu Dhabi Meeting

Ministers identified many key actions needed to accelerate large-scale deployment of CCUS:

- Increasing global shared learnings on CCUS by disseminating best practices and lessons learned from CCUS projects
- Continuing to engage the public on CCUS and looking for ways to communicate effectively

# Secretariat Report to Technical Group

## Highlights from Abu Dhabi Meeting

Ministerial Communiqué  
available at Abu Dhabi  
meeting page of CSLF  
website

[www.cslforum.org/cslf/Events/7thMin-AbuDhabi](http://www.cslforum.org/cslf/Events/7thMin-AbuDhabi)



Carbon Sequestration leadership Forum  
[www.cslforum.org](http://www.cslforum.org)



Communiqué of the 7<sup>th</sup> Ministerial Meeting of the  
Carbon Sequestration Leadership Forum

6 December 2017 – Abu Dhabi, United Arab Emirates

### *Advancing the Business Case for CCUS*

We, the Ministers and Heads of Delegation of the CSLF Members, are greatly encouraged by the progress made in the research, development, demonstration and global deployment of carbon capture, utilization, and storage (CCUS). We met today to discuss how we can expand and strengthen the business case for CCUS globally. Collectively, we have the opportunity, working with industry and others, to accelerate CCUS deployment with strong global commitments and supportive government policies built on existing national circumstances, priorities, and obligations.

According to the International Energy Agency, the use of fossil fuels is projected to continue well into the future, underscoring the critical need for CCUS in the power sector. Moreover, CCUS is a key option for deep CO<sub>2</sub> emission reduction from process industries such as refineries, the chemical sector, and cement and steel production. Therefore, CCUS technology will be an important contributor to the global clean energy transition.

Since we last convened in 2015, international collaboration on CCUS has continued to expand and more projects have commenced operations, including the world's first large-scale bio-energy with CCS project in the United States, and the first fully-integrated CCUS project in the steel industry in the United Arab Emirates. There are now 17 large projects in operation and four coming on stream in 2018, which together will more than double the number of operational projects since 2010. Combined, these projects are capable of capturing 37 million tonnes of CO<sub>2</sub> per year. Their geographic distribution, scale, and technical diversity demonstrate we are gaining global CCUS experience and creating a strong technical, policy, and regulatory foundation for CCUS in the power and industrial sectors, both onshore and offshore. We must, however, build upon our current successes and do more to rapidly expand the global CCUS portfolio.

We, the Ministers, are committed to the successful global deployment of CCUS. We will continue to work together with the private sector to drive down the costs of CCUS and accelerate global deployment by identifying new commercial models and develop the next generation of CCUS technology.

We agreed that the following key actions are needed to deploy this important global technology.

# Secretariat Report to Technical Group

## Highlights from Abu Dhabi Meeting

2017 CSLF  
Technology  
Roadmap was  
launched





# Secretariat Report to Technical Group



## Highlights from Abu Dhabi Meeting

Results from  
regional  
stakeholder  
surveys were  
documented  
and summarized



# Secretariat Report to Technical Group



## Highlights from Abu Dhabi Meeting

Three  
completed  
projects  
received CSLF  
Global  
Achievement  
Awards



# Secretariat Report to Technical Group



## Highlights from Abu Dhabi Meeting

CO2CRC  
Otway  
Project  
Stage 3  
received  
CSLF  
recognition



# Secretariat Report to Technical Group



## **Other Outcomes from Abu Dhabi Technical Group Meeting**

- Offshore CO<sub>2</sub>-EOR Task Force issued final report and has completed its activities.
- BECCS Task Force and Improved Pore Space Utilisation Task Forces will present their final reports at next Technical Group meeting.
- CCS for Industries Task Force will present a draft report at next Technical Group meeting.

# Secretariat Report to Technical Group



## Other Outcomes from Abu Dhabi Technical Group Meeting

- New Task Force on Hydrogen with CCS was formed.
  - “Phase 0” will review existing activities and programs in Europe, Japan, and United States as well as those by multinational energy companies.
  - Phase 0 task force participants are Norway (lead), Australia, Canada, France, Japan, Netherlands, Saudi Arabia, United Arab Emirates, United Kingdom, and IEAGHG.

# Secretariat Report to Technical Group



## **Other Outcomes from Abu Dhabi Technical Group Meeting**

- Detailed proposal for new task force on CO<sub>2</sub> Capture by Mineralization will be presented by Netherlands at next Technical Group meeting.
- U.S. delegate Sallie Greenberg will be Technical Group's liaison with ISO TC265 technical committee on CO<sub>2</sub> capture, transport, and geologic storage.