

I REGI AV GASSNOVA SF OG  
NORGES FORSKNINGSRÅD

Preliminary

# CLIMIT SUMMIT 2025

International Collaboration >20 years

**CLIMIT**

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International Collaboration >20 years

**Preliminary**

## 25 February

10:00-18:10 **CDR Conference**

SMART-CDR Competition:  
Student Presentations and Voting

19:00 Tapas  
Announcement of  
the SMART-CDR Award winners

## 26 February

08:30-11:00 **Side Events**

- ACT/CETP
- CO<sub>2</sub> Storage
- CCUS Standardization
- ECCSEL ERIC
- Technology Centre Mongstad

11:00 Lunch

11:50-18:25 **CLIMIT Summit**

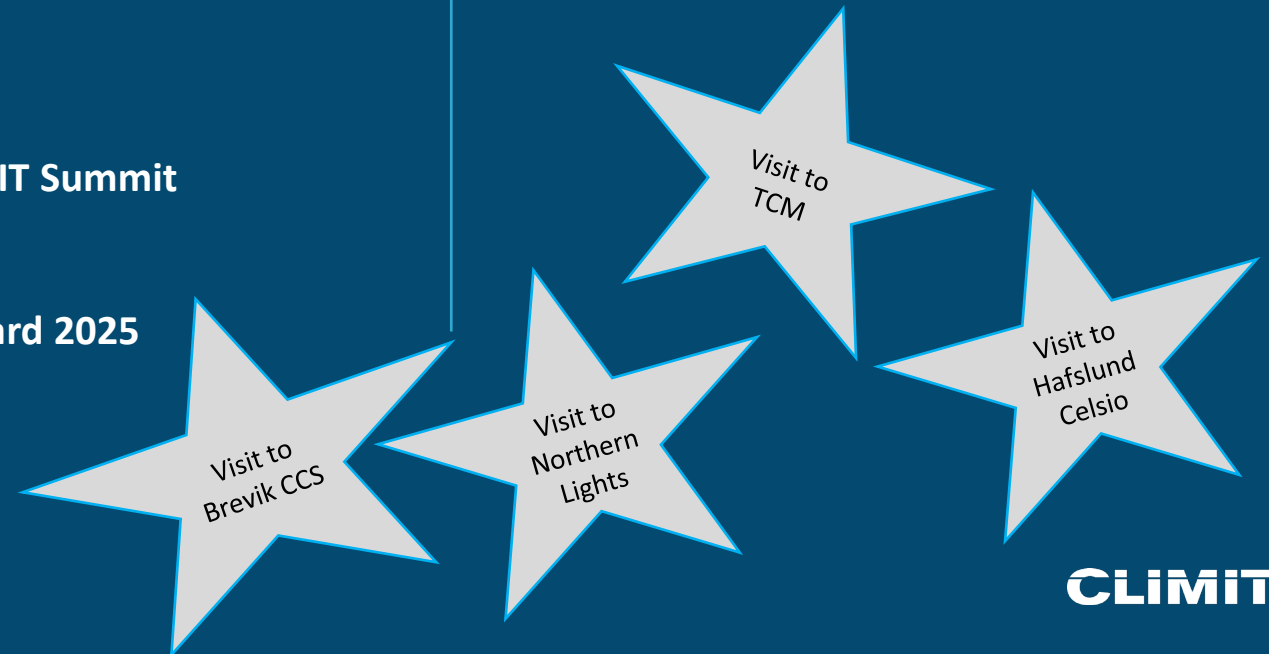
19:15 **Dinner**  
**CLIMIT Award 2025**

## 27 February

08:45-13:00 **CLIMIT Summit**

13:00 Lunch

13:00-16:30 Meeting: **MoU US&Norway**  
*by invitation only*



# 26/27/28 February, Site visits

## 26 February

<b>Brevik CCS</b> (Cement plant)	08:00-10:30 Bus on «site» 08:45-09:45	CDR Conference (pri1)/CLIMIT Summit participants <a href="#">Bus from Bølgen-Brevik-Bølgen</a>
	08:30-11:00 Bus on «site» 09:15-10:15	CDR Conference (pri1)/CLIMIT Summit participants <a href="#">Bus from Bølgen-Brevik-Bølgen</a>

## 27 February

<b>Brevik CCS</b> (Cement plant)	09:30-11:45 On site 10:15-11:00	MoU US&Norway <a href="#">Taxi/Bus from Bølgen-Brevik-Bølgen</a>
	14:15-17:00 (17:30) Bus on «site» 15:00-16:00	CLIMIT Summit participants ( can be two buses) <a href="#">Bus from Bølgen-Brevik-Sandefjord Airport</a>

## 28 February

<b>Technology Centre Mongstad</b>	08:00-13:30 On «site» 09:30-12:00	CLIMIT Summit participants <a href="#">Taxi/Bus from Bergen Bus station-TCM-Bergen Airport</a>
<b>Northern Lights</b> (CO <sub>2</sub> Hub)	08:00-13:30 On «site» 09:30-12:00	CLIMIT Summit participants <a href="#">Taxi/Bus from Bergen Bus station-Northern Lights-Bergen Airport</a>
<b>Hafslund Celsio</b> (WtE)	08:30-11:30 On «site» 09:00-11:00	CLIMIT Summit participants (max 25 pers.) <a href="#">Taxi/Bus from Oslo Central Station- Hafslund Celsio – Oslo Central Station</a>

[For more details...](#)

# 26 February, Side events

During the CLIMIT SUMMIT, five different side events will also be on offer.

- **CO<sub>2</sub> Storage** (Bølgen 1)  
26 February from 08:30-09:30
- **Technology Centre Mongstad (TCM)** (Bølgen 2)  
26 February from 08:30-09:45
- **CCUS Standardization** (Bølgen 3)  
26 February from 08:30-11:00
- **ECCSEL ERIC** (Bølgen 1)  
26 February from 10:00-11:00
- **ACT/CETP** (Bølgen 2)  
26 February from 10:00-11:00

More information available [here](#).

# Initial draft – 25 February CDR Conference Programme

*Moderator: Camilla Brox*

10:00	<b>Opening of conference</b> , Jørild Svalestuen, Gassnova	15:30-16:00	<b>Break</b>
10:05	<b>Opening remarks</b> , Kristin Myskja, Director General, Ministry of Energy, Norway	16:00 -17:00	<b>Carbon Markets</b>
10:15	<b>Mission Innovation CDR Opening Remarks</b> , Mark de Figueiredo, U.S Department of Energy		Discuss Opportunities and Challenges in the Carbon Markets.
10:30	<b>Keynote State of CDR</b> , Steve Smith, University of Oxford		Update on Article 6.4 work, Tim Dixon, IEAGHG Update on EU's CRCF, Kristin Jordal, ZEP repr. in DG CLIMA Carbon Removals exp. group Voluntary Carbon Market, Ole Henrik Ree, Microsoft
10:45-11:15	<b>Break</b>		
11:15	<b>MRV keynote</b> , Paul Zakkour, Carbon Counts		Panel with representatives from VCM, standardization and others
11:25-13:15	<b>SMART-CDR Competition</b>	17:00-18:00	<b>Coalition building for CDR</b>
	Session host: Kay Powe, CDR Mission, Mission Innovation		Discuss building the structures and infrastructure needed to foster global CDR collaboration and support global deployment.
	<ul style="list-style-type: none"><li>○ Keynote: Axel Pierru, Vice President of Knowledge and Analysis, KAPSARC</li><li>○ Finalist student presentations and live voting for prize winners</li></ul>		Session hosts: Artur Runge-Metzger, State of CDR and Andy Lam, CarbonRun
13:15-14:00	<b>Lunch</b>	18:00-18:10	<b>Summing up</b> , Juho Lipponen, Coordinator of CEM CCUS and MI CDR
14:00-14:10	<b>Keynote</b> , Julio Friedmann, Carbon Direct	19:00–21:00	<b>Tapas</b>
14:15-15:30	<b>What is going on in BiCRS, DAC, EM?</b>		Remarks from the MI CDR Mission Co-Leads Remarks from the SMART-CDR Competition sponsors Announcement of the SMART-CDR Award winners
	Breakout sessions: DAC BiCRS EM		

# What the DAC is going on?

*Moderator: Mark de Figueiredo, U.S Department of Energy*

14:15 Status and opportunities for MI CDR technical track on DAC R&D, Mark de Figueiredo

## Panel presentations

14:30 Adam Baylin-Stern, Carbon Engineering

14:35 TBC, Climeworks Norway

14:40 Einar Tyssen, Removr

14:45 Moderated discussion and questions (all presenters + audience)

15:25-15:30 Closing remarks, Mark de Figueiredo

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# What is going on in BiCRS? MI CDR with examples from industry

*Moderator: Camilla Brox*

- 14:15 Status MI BiCRS, Jørild Svalestuen, Gassnova and Yuko Kono, METI
- 14:20 Helene Mørne, Carbonor
- 14:30 Mike Carpenter, Co-CEO, Inherit Carbon Solutions and  
Ko Akiyama, Corporate Officer, Head of Energy Transformation - Europe, Sumitomo Corporation
- 14:45 Gareth Johnson, Head of CCS Sustainability, Drax
- 14:55 Hanne Lerche Rådal, NORSUS (Norwegian Institute for Sustainability Research)
- 15:05-15:30 Panel conversation  
Hanne Lerche Raadal, NORSUS (Norwegian Institute for Sustainability Research)  
Helene Mørne, Carbonor  
Mike Carpenter, Inherit  
Gareth Johnson, Drax

# What is going on in Enhanced Mineralization (EM)? MI CDR with examples from industry

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In work

*Moderator: ?*

- 14:15 Status in MI CDR, KSA (Australia to be confirmed)
- 14:25 Industry example: In-situ Enhanced Mineralization  
Edda Sif Pind Aradóttir, Carbfix
- 14:40 Ex-situ Enhanced Mineralization (CSIRO, Australia)
- 14:55 Future Directions for Enhanced Mineralization in the CDR Landscape (KSA)
- 15:10 Carbon Run (Canada)



# Opportunities and challenges in the Carbon Markets

*Moderator: Camilla Brox*

- 16:00 Introduction, Camilla Brox
- 16:05 Update on Article 6.4 work, Tim Dixon, IEAGHG
- 16:10 Short introduction on CRCF and methodologies in EU, Kristin Jordal, ZEP repr. in DG CLIMA Carbon Removals exp. group
- 16:15 Update from the Voluntary Carbon Market, Ole Henrik Ree, Microsoft

16:15-17:00 Roundtable

Ole Henrik Ree, Microsoft  
Simin Patterson, Equinor  
Paul Zakkour, Carbon Counts  
DNV, TBC  
Kristin Jordal, ZEP repr. in DG CLIMA Carbon Removals exp. group

Preliminary  
In work

# 26 February, CLIMIT Summit part I

Preliminary

11:00-11:45 Lunch

Moderator: Kari-Lise Rørvik

11:50 **Welcome**, Arvid Nøttveit,  
Chair Programme Board

12:00 **Live CO<sub>2</sub> demonstration**,  
Jan Martin Nordbotten, UiB

**12:10-13:15 CLIMIT 20 years**

**Key note:** Terje Aasland, Norwegian Minister of Energy

**Panel session**

The IEA's status of CCS worldwide, TBC  
Rosalinde van der Vlies, EU Commission  
Charlotte Powell, UK Department for Energy Security and Net Zero  
Mark Ackiewicz, U.S Department of Energy

**Highlights from the CLIMIT's Portefolio 2005-2024**,  
Kari-Lise Rørvik/Aage Stangeland, CLIMIT

**13:15-14:05 Status Longship**

13:15 Northern Lights

13:30 Brevik CCS

13:45 Hafslund Celsio

13:55 Åse Marit Hansen/Inga Askestad, SLB Capturi

14:05-14:40 Break

# 26 February, CLIMIT Summit, part II

Moderator: Tim Dixon, IEAGHG

**14:40-15:45**

**What are the key areas of Research, Development & Innovation in CCS toward 2040?**

14:40

Eadbhard Pernot, ZEP

FME gigaCCS, Mona Mølnevik

Conversation with short introductions

Netherlands (Martijn van de Sande, RVO)

Norway (William Christensen, Ministry of Energy)

Saudi Arabia (Abdullah Alkudhair, King Abdulaziz City for Science and Technology)

UK (Charlotte Powell, Department for Energy Security and Net Zero)

U.S (Amanda Raddatz Bopp, DoE)

**15:45-16:15**

**Break**

16:15-16:35

## CLIMIT toward 2030

16:15

Keynote Gassnova, Morten Henriksen, CEO

16:25

Keynote The Research Council of Norway, TBC

# CCS Speed Dating

*CO<sub>2</sub> CAPTURE; New Capture Concepts & Membranes and Adsorbents & Value Chains*

### New Capture Concepts

Moderator: Erik og Jørild

- 16:45-16:55 Status Compact Carbon Capture, Torleif Kongsbakk Madsen, Baker Hughes
- 16:55-17:05 More efficient amine-based CO<sub>2</sub> capture, Luca Ansaloni, SINTEF
- 17:05-17:15 HAI Zero – zero emission technology for Al smelters, Espen Wefring, Hydro

### Membranes and Adsorbents

Moderator: Erik og Jørild

- 17:15-17:25 Membrane-based solutions for CCUS in shipping, Mahdi Amahdi, Aqualung Carbon Capture
- 17:25-17:35 Membrane testing at Returkraft Waste-to-Energy plant, Ketil Bergman, Returkraft
- 17:35-17:45 Sorbent-based CO<sub>2</sub> Capture, Anna Lind, SINTEF

### Value Chains

Moderator: Erik og Jørild

- 17:45-17:55 Optimal value chain for CCS cluster at Norwegian west coast, Tirild Fjeld, CCS Haugalandet
- 17:55-18:05 CO<sub>2</sub> capture onboard ships, Ragnhild Skagestad, SINTEF
- 18:05-18:15 Value chain for small scale CO<sub>2</sub> emitters, Audun Aspelund, Lyse
- 18:15-18:25 Drivers, opportunities and challenges for large-scale CCUS, Markus Steen, SINTEF

16:15-16:35

## CLIMIT toward 2030

16:15

Keynote Gassnova, Morten Henriksen, CEO

16:25

Keynote The Research Council of Norway, TBC

# CCS Speed Dating (5 min. each project)

*CO<sub>2</sub> TRANSPORT; Risk reduction & Value chain & CO<sub>2</sub> specification*

### Risk reduction

Moderator: Ernst Petter Axelsen

- 16:45-16:55 IntoCloud – data and validated models for improved computational tools for CO<sub>2</sub> leakage and dispersion  
Hans Langva Skarsvåg, SINTEF Energy
- 16:55-17:05 OLGA Robust, Enhanced and Accurate CO<sub>2</sub> Handling,  
Tor Haugset, Schlumberger Information Solution AS
- 17:05-17:15 CO<sub>2</sub> two-phase flow in pipelines and wells, Zhilin Yang, Equinor

### Value chain

Moderator: Ernst Petter Axelsen

- 17:15-17:25 CO<sub>2</sub> mass-meter for installation in full-size CCS-facility, Martin Nese, Cignus Instruments AS
- 17:25-17:35 Monitoring and control of networks for CCS,  
Yessica Arellano, SINTEF Energy
- 17:35-17:45 CO<sub>2</sub>LOS IV – CO<sub>2</sub> Logistics by Ship Phase IV, Ragnhild Skagestad, SINTEF Industry

### CO<sub>2</sub> specifications and corrosion

Moderator: Ernst Petter Axelsen

- 17:45-17:55 CO<sub>2</sub> effect on polymeric materials within the CO<sub>2</sub> transport chain, Ben Alcock, SINTEF Industry
- 17:55-18:05 Effects of impurities in CO<sub>2</sub>, results from the Kjeller Dense Phase Corrosion Project (KDC-IV)",  
Gaute Svenningsen, IFE
- 18:05-18:15 Challenges related to H<sub>2</sub>S in CCS pipelines,  
Klas Solberg, DNV
- 18:15-18:25 Discussions about CO<sub>2</sub> specification

- 16:15-16:35**      **CLIMIT toward 2030**
- 16:15              Keynote Gassnova, Morten Henriksen, CEO
- 16:25              Keynote The Research Council of Norway, TBC

# CCS Speed Dating (5 min. each project)

*CO<sub>2</sub> STORAGE; Monitoring, Simulation, Well, Reservoir, Caprock and Social Science*

## Monitoring and simulation

Moderator: Aage Stangeland

- 16:45-16:55    Sparse Passive-Active Reservoir monitoring, Peder Eliasson, SINTEF
- 16:55-17:05    SHAPE - Seafloor Height from Aqua Pressure for offshore CO<sub>2</sub>, Ola Eiken, Quad Geometrics Norway AS
- 17:05-17:15    Risk-based framework for assessing CO<sub>2</sub> storage monitoring, Kirsti Midttømme, NORCE

## Well

Moderator: Kristian Stangvik

- 17:15-17:25    Securing gigaton CO<sub>2</sub> Storage: Advanced Characterization for near Well Integrity and Leak Detection, Amir Ghaderi, SINTEF
- 17:25-17:35    CO<sub>2</sub>DataShare 2.0 – Advancing the CO<sub>2</sub>DataShare digital platform for sharing CCS data with the world, Grethe Tangen, SINTEF
- 17:35-17:45    Unloading system for direct CO<sub>2</sub> injection, Christian Falck, Nemo Maritime AS
- 17:45-17:55    Development of new technology for real-time logging of formation resistivity for core drilling Equipment, Per Erik Berger, CoreAll AS

## Reservoir and Caprock

Moderator: Aage Stangeland

- 17:55-18:05    Leveraging Under-utilized Shale Data for Better CO<sub>2</sub> Containment Risk Evaluation, Jung Chan Choi, NGI
- 18:05-18:15    THERMESI - Thermal effects on seal integrity, Tore Ingvald Bjørnarå, NGI

## Social Science

- 18:15-18:25:    Value chains for CO<sub>2</sub> storage and blue hydrogen in Europe, Rolf Golombek, Frish-senteret

# 27 February, CLIMIT Summit (part I)

08:45-08:50	Welcome, day 2 Moderator Kari-Lise Rørvik
08:50	Keynote: <b>AI</b> , Julio Friedmann, ICEF on Artificial Intelligence
<b>09:00-09:30</b>	<b>International Collaboration</b>
09:00	Mission Innovation and CEM CCUS, Juho Lipponen, Coordinator of CEM CCUS and MI CDR
09:10	ECCSEL ERIC, Klaus Mosbacher
09:20	European Plan for R&D, Marie Bysveen, SINTEF

09:30-10:00 **Break**

## Technical sessions

### CO<sub>2</sub> CAPTURE (Bølgen 1)

Moderator: Jørild Svalestuen

10:00-10:15	CCS in Elkem Climate Roadmap - Status and way forward, Trond Sæterstad, Elkem
10:15-10:30	A Climate Cure for Waste-to-Energy, Audun Aspelund, Lyse
10:30-10:45	Drinking Water Levels of Nitrosamines and Nitramines near a CO <sub>2</sub> Capture Plant, Cathrine Brecke Gundersen, NIVA
10:45-11:00	Heat recovery and CO <sub>2</sub> capture for the ferroalloy industry, Kristin Jordal, SINTEF

11:00-11:45 **Break**

### CO<sub>2</sub> TRANSPORT (Bølgen 2)

Moderator: Ernst Petter Axelsen

10:00-10:15	How can we develop a national infrastructure for CO <sub>2</sub> transport in Norway?, Ragnhild Skagestad, SINTEF Industry
10:15-10:30	CO <sub>2</sub> logistic in Northern Norway, Ragnhild Skagestad, SINTEF Industry
10:30-10:45	New and robust simulator for CO <sub>2</sub> flow, Jan Gerhard Nordstrøm, Leda Flow
10:45-11:00	Data and models to optimize maritime CO <sub>2</sub> transport and offshore injection, Svend Tollak Munkejord, SINTEF Energy

11:00-11:45 **Break**

### CO<sub>2</sub> STORAGE (Bølgen 3)

Moderator: Kristian Stangvik

10:00-10:15	Well Barrier Integrity Test Unit – BTU, Sören Ulonska, Vedeld AS
10:15-10:30	Well control for CO <sub>2</sub> wells, Sven Inge Ødegård, eDrilling AS
10:30-10:45	CO <sub>2</sub> storage in Basalt deposits, Stéphane Polteau, IFE
10:45-11:00	Improvements in digital technology to address the broad challenges of multi-site CO <sub>2</sub> injection, Sarah Gasda, NORCE

11:00-11:45 **Break**

# 27 February, **CLIMIT Summit** (part II)

11:45-12:50            **Knowledge sharing across borders**

Moderator: Olav Øye, Bellona

Keynote, Jarad Daniels, GCCSI

Conversation with short introductions

Jon Christoffer Knudsen, SLB Capturi

Hussein Hoteit, King Abdullah University of Science and Technology (Presenting relevant projects in Saudi Arabia)

Jannicke Bjerkaas, Hafslund Celsio

Pia Prestmo, Heidelberg Materials

Adam Baylin-Stern, Carbon Engineering

12:50-13:00            **Closing remarks**

13:00-14:00            **Lunch**