



BALTIC CARBON FORUM

The annual conference for Carbon Capture Utilisation and Storage experts and stakeholders on October 22 and 23, 2019 in the Nordic Hotel Forum, Tallinn

Programme Tuesday 22nd

- 00: (10.00-12.00) BASRECCS rf general assembly**
Meeting room: "Capella"
- 12.00-13.00 Registration and light lunch
- 01: (13.00-14.10) Opening and welcome**
- 02: (14:30-16:00): Challenges and opportunities in the BSR**
- 03: (16:20-18:15): What is your contribution? (Interactive session)**
- 18.30-21.00 Reception

Programme Wednesday 23rd

- 04: (08:30-09:40) Public acceptability and policies – Enabling CCUS in the Baltic Sea Region (Panel)**
- 05: (10:00-11:30) Building a business case for CCUS**
- 11.30-12.30 Lunch
- 06: (12:30-14:00) Financing CCUS**
- 07: (14:20-16:20) Creating an integrated value chain for CCS – what are the key challenges? (Interactive session)**
- 08: (16:40-17:30) Closure**
- 09: Side event with Reception (17.30-20.00): Meet the Financing Institutions**

Tuesday October 22

BASRECCS rf General Assembly (10:00-12:00)

Session 1 (13:00-14:10)

Opening and welcome

01:01 Chair: **Ingvild Ombudstvedt**, Owner/Lawyer, IOM Law

01:02 **Johan Vetlesen**, Deputy Director General, the Norwegian Ministry of Petroleum and Energy, and member of the Nordic Committee of Senior Officials for Energy Policy, **The Nordic Council of Ministers**

01:03 **Meelis Münt**, Secretary General, **Estonian Ministry of Environment**

01:04 **Valdur Lahtvee**, HA Climate Policy Officer, **Council of the Baltic Sea States CBSS**

01:05 **Elena Sapp**, Deputy Head of the Environment Department of Tallinn, **The City of Tallinn**

Session 2 (14:30-16:00) **Challenges and opportunities in the BSR**

02:01 Chair: **Auli Niemi**, Professor of Earth Sciences Department, Uppsala University

02:02 **Tomi J. Lindroos**, Research Scientist, VTT, *Negative CO₂ project*

02:03 **Dr. Alla Shogenova**, Senior Researcher, Department of Geology, Tallinn University of Technology – *Baltic CCUS Scenario for the Cement Industry CLEANKER Project*

02:04 **Thomas Haselton**, Director, Minjos Nafta Company, *Minjos Nafta CCS/EOR Project*

02:05 **Jørgen Thomassen**, CCS Process Engineer, Fortum Oslo Varme, *Fortum's CCUS initiatives in the Baltic Sea Region*

Session 3 (16:20-18:15)

What is your contribution? (Interactive session)

03:01 Chair: **Per Arne Nilsson**, Owner, Panaware

Why is there no progress, and what can we do about it?

Reception (18:30-21:00)

Wednesday October 23

Session 4 (08:30-09:40) Public acceptability and policies – Enabling CCUS in the Baltic Sea Region (Panel)

04:01 Chair: **Dr. Farid Karimi**, Researcher, Interdisciplinary Centre for Baltic Sea Region Research (IFZO), University of Greifswald

04:02 **Todd Flach**, Senior Advisor CO₂ capture and Storage, Bellona

04:03 **John Scowcroft**, Executive Advisor, Global CCS Institute

04:04 **Sofie Fogstad Vold**, Advisor, Department for Climate, Industry and Technology in the Norwegian Ministry of Petroleum and Energy, *Update from Norway and the role of Nordic-Baltic cooperation on CCUS*

Session 5 (10:00-11:30) Building a business case for CCUS

05:01 Chair: **Dr. Gabriela von Goerne**, BGR, Head of Sub-Department Subsurface Use

05:02 **Steve Murphy**, Finance Director and **Kirsty Lynch**, Outreach Orator, Pale Blue Dot
(Presentation via video transfer)

05:03 **Per Brevik**, Director Sustainability & Alternative Fuels, HeidelbergCement, *A business case for CCS on cement*

05:04 **Vello A. Kuuskraa**, President, Advanced Resources International, *Financial aspects of storage in saline reservoirs*

05:05 **Dr. Jaap Vente**, Roadmap Manager Towards a CO₂-neutral industry, TNO, *Valorisation of steel off-gases to enable economic viable CO₂ storage and utilization*

Session 6 (12:30-14:00) Financing CCUS

06:01 Chair: **Dr. Adam Wójcicki**, Chief Specialist, Polish Geological Institute – National Research Institute.

06:02 **Dr. Ragnhild Rønneberg**, ACT Coordinator, Norwegian Research Council, *Financing research through ACT; results from previous calls and information for next call*

06:03 **Kersti Talving**, Senior Manager, Nordic Investment Bank, *Financing Sustainable Growth in the Baltic Sea Region*

06:04 **Juho Lipponen**, Coordinator, Clean Energy Ministerial CCUS Initiative, *Accelerating CCUS Together – Financing a key piece of the clean energy puzzle*

06:05 **Dennis Hamro-Drotz**, Investment Manager, Nordic Environment Finance Corporation (NEFCO), *Financing Green Projects*

Session 7 (14:20-16:20) Creating an integrated value chain for CCS – what are the key challenges? (Interactive session)

07:01-03 Chairs: **Emil Yde Aasen**, Mechanical Engineer/Business Developer, Northern Lights CCS (Equinor, Shell, Total), **Hans Aksel Haugen** Chief Scientist, Sintef, and **Per Bergmo**, Research Scientist, Sintef

Session 8 (16:40-17:30) Closure

08:01 **Trude Sundset**, CEO, Gassnova, *Role of CCS seen from Norway*

08:02 **Per Arne Nilsson**, *Summing up the conference*

08:03 **Ingvild Ombudstvedt**, *Moving forward*

Side event with Reception (17.30-20.00)
Meet the Financing Institutions

Meeting room Arcturus in the Nordic Forum Hotel, Tallinn

The regional cooperation on CCUS is rooted in the Baltic Sea Region Energy Cooperation ("BASREC"), initiated by the Ministers of Energy of the Baltic Sea Region countries and the European Commission. In 2011, BASREC started a CCS initiative with the first Baltic Carbon Forum in Warsaw 2012. A follow-up to this conference was a decision to deploy a network of CCS experts and stakeholders named BASRECCS.

Since a revision of BASREC in 2015, the energy forum has been on leave. BASRECCS, however, has continued under support by the Nordic Council of Ministers. In the summer of 2018, BASRECCS was finally established as a legal entity, registered in Finland. BASRECCS has revisited its objectives and key strategic areas, aiming at taking an active part in the deployment of CCS and CCUS in the region, aiming at supporting industry and other implement and deploy these crucial climate change mitigation technologies in a sustainable manner, supporting growth and maintaining employment.

The objective of BASRECCS is to foster at least one full-scale CC(U)S project to run by 2030 followed by a network of CC(U)S projects by 2040 in the Baltic Sea Region through close collaboration with industry, research institutes and other stakeholders.

BASRECCS

- promotes CCS and CCUS;
- builds tools for and facilitates networking, communication and collaboration;
- contributes to and facilitates capacity building through education and dissemination;
- initiates and facilitates projects and activities.

<http://bcforum.net/>

Nordic Energy Research is the platform for cooperative energy research and policy development under the auspices of the Nordic Council of Ministers. We have a staff of 15 and are based in Oslo together with our sister organisations Nordforsk and Nordic Innovation.

Nordic cooperation in energy research started 1975, leading to common pot research funding since 1985 and the establishment of Nordic Energy Research as an institution under the Nordic Council of Ministers in 1999.

The Board comprises representatives from the authorities and ministries responsible for energy research funding in the five Nordic countries, who contribute the majority of the organisation's funding.

The Nordic region has ambitious goals to reduce carbon emissions and its dependence of fossil fuels, and at the same time create new growth industries based on green technology. Nordic Energy Research funds research of joint Nordic interest that supports these ambitions by expanding knowledge on sustainable energy and contributing to the development of new, competitive energy solutions.

<https://www.nordicenergy.org/>

Nordic co-operation, one of the most extensive forms of regional co-operation anywhere in the world, involves Denmark, Finland, Iceland, Norway and Sweden as well as the Faroe Islands, Greenland and the Åland Islands.

The Nordic Council and Council of Ministers

The Nordic Council of Ministers is the forum for inter-governmental co-operation, the Nordic Council for inter-parliamentary co-operation.

In 2019 Iceland holds the chairmanship in the Nordic Council of Ministers.

The Nordic Committee of Senior Officials for Energy Policy

The committee (EK-E) is responsible for the entire Nordic energy cooperation and serves the ministerial meetings and work.

The Networking Group on CCUS

The task of the Networking group on Carbon Capture, Use and Storage (NGCCUS) is during a three years period to promote cooperation and assist governments by following and discussing the development in addition to exchange of information on CCUS in Norden and within the Nordic Baltic 8 (NB8) cooperation.

<https://www.norden.org/en>

Side event with Reception (17.30-20.00) on Wednesday 23:

Meet the Financing Institutions

Meeting room Arcturus in the Nordic Forum Hotel, Tallinn

Welcome by **Hans Jørgen Koch**, CEO Nordic Energy Research
Tomi J. Lindroos, VTT: Future R&D challenges

Meet the financing agencies:

Kersti Talving, Nordic Investment Bank (NIB)

Dennis Hamro-Drotz, Nordic Environment Finance Corporation (NEFCO)

Sofia Elamson, Nordic Energy Research/Accelerating CCS Technologies (ACT)

