

Industrial decarbonisation and beyond: CCUS perspectives in Europe and the role of ECCSEL ERIC

24 May 2022, 10.00 - 16.30 CET
Residence Palace, Wetstraat 155, 1040 Brussels

Registration for the hybrid event before 23 May 2022:

<https://www.eventbrite.com/e/eccsel-european-workshop-registration-299131108197>

AGENDA

09:30 Coffee

10:00 Launch of ECCSEL ERIC White Paper

Welcome - Massimo Busuoli, Director NTNU Brussels Office

CCUS as a solution to industrial decarbonisation:

- a. Keynote – Jane Amilhat, DG RTD - Head of Unit Low Emission Future Industries, European Commission
- b. Keynote – Jytte Guteland, Member of the European Parliament
- c. Keynote – Klaus Peters, Secretary General, European Steel Technology Platform (ESTEP)

The need for common investments in the European Research Infrastructure for CCUS – Sverre Quale, Director of ECCSEL ERIC

Panel discussion – Keynote speakers, Per-Olof Granström (Zero Emissions Platform) –
Moderator: Massimo Busuoli.

12:00 Lunch

13:00 National efforts to enable CCUS deployment and the role of ECCSEL ERIC

Perspectives of the ECCSEL ERIC founding countries (*12 min each*):

- a. Norway (seat of ECCSEL ERIC) - Åse Slagtern, The Research Council of Norway
- b. France – Xavier Montagne, Ministry of Higher Education, Research and Innovation
- c. Italy - Grazia Pavoncello, Ministry of Education, University and Research
- d. The Netherlands – Martijn van de Sande, Netherlands Enterprise Agency
- e. United Kingdom - Emily Weatherby and Tom Morley, Department for Business, Energy & Industrial Strategy (BEIS)

14:00-14:20 Coffee break

14:20 – 15:20 Perspectives of stakeholders from countries outside ECCSEL ERIC (*12 min each*)

- a. Thorsten Hauck, Head of Department, Department Process optimisation Iron and Steel Making, VDEh-Betriebsforschungsinstitut GmbH (BFI), Germany
- b. Alexandra Dudu, Head of CO₂ Geological Storage Department, GeoEcoMar, Romania
- c. Grigorios Panagakos, Assistant Research Professor, Chemical Engineering Department, Carnegie Mellon University (USA), Technical Scientific Council on Energy, Environment and Sustainable Mobility (council operating under the auspices of GSRI, Greece)
- d. Adam Smolinski, Professor, Central Mining Institute (GIG), Poland
- e. Dr. Sergey Shishatskiy, Helmholtz-Zentrum Hereon, Germany

15:20 Roundtable with Ministry, Industry, Research and ECCSEL ERIC representatives

Åse Slagtern, Per-Olof Granström (Zero Emissions Platform), Alexandra Dudu (GeoEcoMar, Romania), Volker Röhling (ECCSEL ERIC), Michela Vellico (Seconded National Expert to the European Commission) – Moderator: Jonathan Pearce (Chair of ECCSEL ERIC General Assembly)

- a. How can additional European countries join ECCSEL ERIC and what are the benefits?
- b. How can engineers, scientists, and students access ECCSEL ERIC research facilities and services?
- c. Investments in new ECCSEL ERIC research facilities

16:20 Conclusions and recommendations on the use and further development of ECCSEL ERIC to accelerate the development and deployment of CCUS in Europe

Isabelle Czernichowski-Lauriol, BRGM, ECCSELERATE Work Package leader

16:30 End of workshop

CONTEXT

In response to the urgency of climate change mitigation, **CO₂ Capture, Storage and Use (CCUS)** is called upon in carbon neutrality scenarios, in addition to energy sobriety, efficiency and renewable energies. CCUS is needed to avoid irreducible CO₂ emissions from industrial facilities as well as to remove CO₂ from the atmosphere, when combined with bio-energy (BECCS) or direct air capture (DACCS). Many options for CO₂ capture, transport, storage, and utilisation are possible, therefore the best scenarios for CCUS development and deployment must be elaborated taking into account the specificities and needs of territories. Synergies between CCUS, hydrogen and renewable energies can be sought.

The **European Green Deal** is counting on CCUS to help achieve its goals. The **European Strategic Energy Technology Plan (SET Plan)** has set up a specific Implementation Working Group on CCS and CCU. Horizon Europe, EU's key funding programme for research and innovation until 2027, is supporting CCUS including through European partnerships, such as the **Clean Energy Transition Partnership (CETP)**, in which the EU, national authorities and/or the private sector jointly commit to support the development and implementation of a programme of research and innovation activities.

ECCSEL, the European CCUS Research Infrastructure, is recognised by the SET Plan as '*a world-class research infrastructure facilitating ambitious R&D activities, European industrial initiatives, and education of specialists for the new CCUS industry.*'

ECCSEL is a **legal entity** created in 2017, with ERIC statutes (European Research Infrastructure Consortium), and a seat and Operations Centre in Norway. ECCSEL's founding members are France, Italy, the Netherlands, Norway, and UK. **Additional member countries are welcome** to strengthen and better balance the development of the European Research Area. Each member country is represented by a National Node. ECCSEL is currently made up of more than 80 leading facilities on CO₂ capture, transport, storage, and use, provided by over 20 European institutions from the member countries. For the complete catalogue of facilities, please visit: www.eccsel.org. **The ECCSEL facilities are currently available and open for access by researchers and the industrial community across the globe.**



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