



Innovation Fund Workshop for CCS

Hosted by ZEP and the Norwegian Ministry of Petroleum and Engineering

On the 6th September, Zero Emissions Platform (ZEP) hosted a workshop with the European Commission DG CLIMA on the design elements for the first call of the Innovation Fund (IF). The main objectives of the workshop was to:

- Provide the CCS community an opportunity to understand more about the IF with direct Q&A with DG CLIMA
- Provide DG CLIMA with the CCS community perspectives on the elements of the IF first call design.
- Provide an opportunity for the CCS community to discuss in detail elements of the IF first call design.
- Provide a platform for a pipeline of projects to present themselves to the European Commission and the CCS community.

Agenda

Item	Lead Presenter
09:00 Introduction	Lamberto Eldering (ZEP Vice-Chair)
Setting the Scene for the Innovation Fund Workshop	Christian Holzleitner (DG CLIMA)
Lessons learned from NER300 and the future role of EIB in supporting CCS projects	Roland Schultze (EIB)
Connecting Europe Facility: support to CCS projects and synergies with the Innovation Fund	Henriette Nesheim (DG ENER)
10:15 Selection Criteria & Project Development Assistance (PDA) <i>Breakout Groups to Discuss</i>	All Attendees
<i>Sharing of Conclusions</i>	<i>Facilitators</i>
11:45 Lunch: Sponsored by CCUS Project Network	
12:45 Milestones & Knowledge Sharing <i>Breakout Groups to discuss</i>	All Attendees
<i>Sharing of Conclusions</i>	<i>Facilitators</i>
14:00 Overview of Projects (5mins per project)	Individual CCS Projects
14:45 Summary and AOB	Lamberto Eldering (ZEP Vice-Chair)

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The presentations above are available as attachments. Ahead of the workshop attendees were asked to complete a questionnaire with a series of questions relating to the design of the IF first call. The results of these questionnaires were compiled by the secretariat and helped steer the discussion in the scheduled breakout sessions of the workshop.

Summary of Discussions

Introduction Session: Setting the Scene.

The ZEP Vice-Chairman Lamberto Eldering welcomed participants, the European Commission and the EIB to the workshop, which was hosted by the Norwegian Ministry of Petroleum and Energy. He made specific reference to the previous days High-Level EU-Norway CCUS Conference which took place in Oslo and drew together Governments, industry and academia to discuss CCUS in Europe. This workshop, in particular was aimed to build on the enthusiasm of the previous day and concentrate on the Innovation Fund.

Mr Christian Holzleitner, Head of Unit, DG Climate Action (DG CLIMA), highlighted the design features of the first call of the Innovation Fund, and provided clarity on the scope of the fund, including its role with other EU initiatives, key features of the fund, project selection process, support profiles and next steps for the fund.

Mr Roland Schultze, European Investment Bank (EIB), presented the EIB's historic role in the NER300 and the learnings which came out of the NER300 process, which has been investigated in many reports including one by the European Court of Auditors. Furthermore, Mr Schultze highlighted that in the pending Energy Lending Policy, CCS is eligible, however unabated fossil fuel projects will not. The EIB has gained valuable experience in assessing CCS projects, and learnt from the process which will streamline the future use of the EIB for lending for CCS projects.

Ms Henriette Nesheim, DG Energy, presented the Connecting Europe Facility (CEF) and its support for CCS projects and synergies with the Innovation Fund. The CEF is a tool which can enable the deployment of technologies at scale in Europe and is the funding mechanism which can realise the large-scale CO₂ transport infrastructure projects in Europe. Ms Nesheim highlighted that the CEF is supporting the early studies for several CCS projects across Europe, which has enabled these projects to continue and expand.

Breakout Session 1: Selection Criteria & Knowledge Sharing

The first breakout session concentrated on the proposed selection criteria and project development assistance. The group was split into five groups, whereby each group answered one of two subsets of questions. Each group presented their conclusions back to the room at the end of the breakout session. In addition to the feedback submitted in the questionnaire process, key points included:

- Project maturity could easily be communicated with a **Maturity Roadmap**. This will contain plans, timings, milestones and decisions. This way it will be easier to know, compare and communicate project development.



- Social acceptance is difficult to measure and can only be reviewed after project implementation. Alternatively, a **Stakeholder Engagement Plan**, which highlights all stakeholders including the general public will have more value (this can be integrated with the above).
- The potential for deployment, **scalability and consortium strength** should be considered in the selection criteria
- The **timing of funding calls** across the European Commission climate toolbox (Horizon Europe, IF, CEF etc) should be aligned so payment schedules are clear and give clarity to projects.

After the breakout session there was a brief presentation by [the CCUS Projects Network](#). The CCUS Projects Network represents and supports major industrial projects under way across Europe in the field of carbon capture and storage (CCS) and carbon capture and utilisation (CCU). For information on how to join the network, please follow the imbedded link.

Break Session 2: Project Milestones and Knowledge Sharing

The second breakout session concentrated on the definition of project milestones, and allocating funding against pre-defined milestones, as well as a discussion on knowledge sharing scope and tools. The format was identical to the morning breakout session, with groups feeding back to the room, key points included:

- The **current milestone structure for project development should not be changed** for Innovation Fund projects, as these are well understood in many sectors.
- Within the milestone structure there should be room for **flexibility**.
- **Additional project milestones** can include, **Government support, regulation/legislative changes at a member state level, PCI status**.
- Current EU funded initiatives such as the **CCUS Projects Network** and **SET-Plan IWG9** are prime mechanisms to encourage knowledge sharing between EU funded projects
- **Horizon Europe funded projects linked with IF applications** should add strength to an application.
- **Softer dimensions of knowledge sharing** need to be presented. Including public/private interaction process, streamlining project timelines, public acceptance, regulation and legislation acceptance, CCUS deployment and learning expertise
- **A database of CCUS expertise** companies could be assembled to ensure projects are developed by companies with a track history of CCUS facility (capture or T&S) construction and operation.

Overview of Projects.

The final session consisted of an overview of projects (see attached presentations). These included presentations from the Northern Lights Project, Eriva Cork CCUS project, the Port of Antwerp CCUS project and Minijos Nafta Allam Cycle & EOR project. The presentations were a quick overview of the project, then concentrated on how the Innovation Fund would add value to their project and where it would have the most impact (spend profile etc).

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Summary

Christian Holzleitner and Lamberto Eldering summarised the workshop and brought it to a close. Mr Holzleitner emphasised that projects need to consider how the financing will work, and what criteria and milestones are unique to the sector.

The ZEP secretariat will compile the questionnaire responses and workshop feedback and prepare a longer written conclusion for the participants of the workshop and DG CLIMA.

Attendance List:

Attendee	Organisation
De Buchet Vianney	Air Liquide
Blinksbjerg Peter	Amager ressourcecenter, ARC
De Coninck Eric	Arcelor Mittal
Stuen Johnny	City of Oslo - Waste to Energy Agency
Anker-Nilssen Per	Confederation of Norwegian Enterprise
Connolly Philip	Department of Communications Climate Action & Environment
Velkova Maria	DG CLIMA
Holzleitner Christian	DG CLIMA
Nesheim Henriette	DG ENER
Helle Kaare	DNV GL
Quale Sverre	ECCSEL ERIC
Hole Markus	EEAS
Marušić Hrvoje	Embassy of Croatia
De Filippo Renato	ENI
Paceviciute Irma	Equinor
Sandberg Per	Equinor
Eldering Lamberto	Equinor
Murphy Brian	Ervia
Schulze Roland	European Investment Bank (EIB)
Frisvold Paal	europaeskpolitikk.no
Van Dessel Michiel	Exxon Mobil
Sopranzetti Antonella	Exxon Mobil
Hanegreefs Leander	Fluxys SA
Van Rompaey Senne	Fluxys SA
Bjerkas Jannicke	Fortum
Svalestuen Jørild	Gassnova
Viumdal Aslak	Gassnova
Turan Guloren	GCCSI
Fischer Almut	German Ministry of Economic Affairs and Energy

Theulen	Jan	HeidelbergCement
Schwarck	Christian	IOGP
Habib	Ziad	Ihoist
Chopin	Thierry	Ihoist
Haselton	Tom	Minijos Nafta
Semundseth	Ragnar	Ministry of Petroleum and Energy
Svenningsen	Stig	Ministry of Petroleum and Energy
Shimamoto	Fumiharu	Mitsubishi Heavy Industries Group
Kakaras	Emmanouil	Mitsubishi Hitachi Power Systems Europe GmbH
Yde Aasen	Emil	Northern Lights
Wilhelmsen	Kjetil	Northern Lights
Hazell	William	Pale Blue Dot
Zaborowska	Katarzyna	PGE Polska Grupa Energetyczna S.A.
Van Kraaij	Hanna	Port of Antwerp
Demaerel	Anne-Frédérique	Port of Antwerp
Lundqvist	Karin	Preem AB
Van De Sande	Martijn	RVO
Bye Bruun	Kim	Shell
Riboldi	Luca	SINTEF
Bysveen	Marie	SINTEF
Jordal	Kristin	SINTEF
Hoff	Karl Anders	SINTEF Industry
Øye	Olav	The Bellona Foundation
Mikunda	Tom	TNO
Rycroft	Lydia	TNO
Seilhan	Bruno	Total
Hiegel	Jean-Philippe	Total
Guevara Opinska	Liliana	Trinomics
Granström	Per-Olof	ZEP
Gent	Chris	ZEP
Svendsen Skriung	Camilla	ZERO