



ETN
Global

ETN CCS Taskforce – Monthly Meeting

Minutes of the meeting

8 November 2024, Online

Participants	
Present	
Jens Walter	BASF
Nicolò Cairo	ETN
Christian Gossrau	RWTH Aachen
Andrea Ciani	Ansaldo Energia
David Peralta-Solorio	Uniper
Laurenz May	RWTH Aachen
Ward De Paepe	University of Mons
Jean Beriot	University of Mons
Paul di Mascio	ProEnergy
Emanuele Martelli	POLIMI
Vincent Thielens	University of Mons
James Bain	RWE
Peter Jahnson	ETN Emeritus Member
Apologies:	
Renaud Le Pierres	Parker

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1. Introduction

The Members of the ETN CCS Taskforce discussed the status and next steps of the new activities for Q4/2024 and 2025. Actions are reported under Section 7.

2. Master Thesis

Jean Beriot, Master student at the University of Mons, gave a presentation on the objectives of his Master Thesis, entitled “[Uncovering the economic tipping point between H2-based GTs and CCS-enhanced GTs](#)”. The presentation is also attached to this e-mail and is uploaded [at this link on Microsoft Teams](#).

During the Q&A, Jean reported CCGT will be the primary topic of this Master Thesis. OCGT could also be addressed at a later stage of the work, depending on the available timing.

3. Report on the definition of the most optimal CO₂ transportation related to CCS-GT

Based on the live discussions during the monthly meeting, ETN Members reviewed the index of the Paper, which is uploaded [at this link on Microsoft Teams](#).

The index is a result of the literature gathered by ETN Members in the previous four weeks. The following ETN Members volunteered to lead the following Chapters:

- Chapter 1 “Multicriteria Assessment of Transportation Options” (James Bain, RWE from the end of November)
- Chapter 2 “Technical Barriers / Opportunities for each CO₂ Transportation System (two young engineers from Uniper would lead the work and be mentored by David Peralta-Solorio, Uniper)
- Chapter 3 “A Comparison of the Capital and Operational Expenditures of the CO₂ Transportation Systems (Nicolò Cairo, ETN will check with TotalEnergies)
- Chapter 4 “Potential for CCUS clusters” (Christian Gossrau, RWTH Aachen)

4. Webinar series

ETN launched the registrations for the second episode of its new CCS-GT webinar series. The event, entitled “Ensuring Successful Carbon Capture: Flue Gas Characterization and Energy Efficiency Strategies”, will take place on Friday, 6 December at 11:00 (CET). Presentations on flue gas characterisation and energy penalty will be respectively delivered by Engie Laborelec and University of Mons.

Registrations are open [at this link on the ETN website](#). ETN Members are kindly invited to promote the event among their network connections, if applicable.

5. CCS-GT Technology Database

ETN populated the [Technology Database of CCS-GT](#). Members are invited to review the Database and populate the document with any additional projects they are aware of.

6. Proposal for new additional activities

During the ETN High-Level User Meeting and October Workshop, ETN Members identified the need to cover topics related to CCS CAPEX/OPEX and CCS efficiency penalty.

Whereas for the first proposal (CAPEX/OPEX) the Taskforce agreed to wait the first outcomes of the Master Thesis, a decision on the new activities covering CCS efficiency penalty will be taken after the webinar on 6 December. During the virtual event, a presentation on energy penalty will be hence delivered by the University of Mons.

7. Next meeting

ETN has shared information on two EU Calls on CCS:

- CCU for the Production of Fuels (Slide 7 of the supporting slides of the meeting)
- DACCS and BECCS for CO₂ Removal/Negative Emissions (Slide 8).

Whilst looking forward to receiving any expression of interest for this call from the Members of the Taskforce, the ETN office is checking the projects' expected duration.

8. Next meeting

The next meeting will take place on Friday, 13 December at 15:00 (CET).

9. Actions list

#	Actions	Resp.	Deadline
1	Provide structure (e.g., list of subchapters) for each of the sections under your own responsibilities	JB, DPS, CG	06.12.2024
2	Contact TotalEnergies to lead Chapter 5 "A Comparison of the Capital and Operational Expenditures of the CO ₂ Transportation Systems"	NC	15.11.2024