



BIOCON-CO2 Final Symposium

When: 14-15 June 2022

Format: Hybrid

Where: Online & North Sea Port Visitor Centre, Ghent, Belgium

Registration: <https://www.eventbrite.ie/e/324744187607>

Cost: Free

BIOCON-CO₂ is a Horizon 2020 funded project which aims to develop and validate a platform of flexible and versatile techniques capable of using biological processes to transform raw CO₂ waste from the iron, steel, cement and electric power industries into value-added chemicals and plastics.

The upcoming Final Symposium is the last event to be held as part of the BIOCON-CO₂ Project. It will celebrate the achievements of the project and explore the wider impact these results will have for the sector both in Europe and beyond.

Taking place in hybrid format, the symposium will be held over one and half days and comprise of three sessions which focus on project impacts through three key lenses: industry, science and policy. The sessions will feature presentations and panel discussions with both project partners and invited speakers.

The Final Symposium will also include a site visit for project partners and invited guests on the second day. The site visit will incorporate visits to both the Arcelor Mittal and Bio Base Europe Pilot Plant sites in Ghent.

This event will be of interest to those working in the area of carbon capture and carbon valorisation, be they researchers, policy makers or industry stakeholders from the iron, steel, cement and electric power industries.



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Agenda – 14th-15th June

Day 1 – 14th June 2022 (9:00-17:00 CET)

- 09:00-09:30** **Welcome Tea & Coffee**
09:30-09:40 **Coordinator's Welcome**
 Montse Bosch (LEITAT)

Session 1: Industry (9:30-12:50 CET)

This session will focus on key project results which are directly applicable to and ready to be taken up by industry stakeholders. A series of presentations and an expert panel discussion will address a range of topics including next steps for validated project results and future perspectives for bio-based carbon capture and utilisation applications.

- 09:40-10:10** **Mobile bioreactor skid for on-site CCU of industrial off-gas**
 Koen Quataert (BBEU)
- 10:10-10:40** **Economics of CO₂ conversion to PolyHydroxyAlkanoate (PHA)**
 Jean-Luc Dubois (Arkema)
- 10:40-11:10** **Coffee Break**
- 11:10-11:40** **Industrial perspective on how CO₂ emissions can be valorised**
 Jim Gripekoven (Engie)
- 11:40-12:30** **Panel Discussion – Moderated by Xavier Ponte-Font (LEITAT)**
 Panellists: Daniele Molognoni (LEITAT), Karel de Winter (BBEU), Jim Gripekoven (Engie)

12:30-14:00 Lunch & Networking

Session 2: Science (14:00-17:00)

This session will explore the technologies and tools developed during the course of the project. With an emphasis on application, the session will focus on how these tools can be used by stakeholders to accelerate the valorisation of captured carbon.

- 14:00-14:30** **Microbial cell factories and progress toward producing target products**
 Gabriele Phillips (Fraunhofer) with input from Marina Guillen (UAB), Tom Ewing (WUR) & LEITAT
- 14:30-15:00** **Strategies to increase CO₂ solubility**
 Aline Hüser (RWTH Aachen University)
- 15:00-15:30** **Technologies & tools for downstream processing**
 Tomás Roncal (Tecnalia)
- 15:30-15:50** **Coffee Break**
- 15:50-16:20** **Presentation from H2020 BioRECO₂VER Project**
 Heleen De Wever (VITO)
- 16:20-16:50** **Panel Discussion – Moderated by Ana López-Contreras**
 Panellists: Albert Guisasola (VIVALDI Project), Heleen De Wever (BioRECO₂VER Project), Konstantinos Atsonios (BIOSFERA Project), TBC (BACTOFUEL Project)
- 16:50-17:00** **Wrap up & Coordinator Conclusions**

Day 2 – 15th June 2022 (9:00-16:00 CET)

09:00-09:30 Welcome Tea & Coffee

Session 3: Policy (9:30-12:30)

This session on policy will expand on how project results contribute to policy in this sector and to wider European objectives around sustainability and net zero objectives.

09:30-09:45 Introduction & Welcome

Session Moderator (LEITAT)

09:45-10:10 CCU and Bio-CCU technologies: social and economic sustainability

Despina Magiri-Skouloudi

10:10-10:30 Environmental aspects & Life cycle analysis of CCU and Bio-CCU systems

Despina Magiri-Skouloudi

10:30-11:00 Coffee Break

11:00-11:45 Panel Discussion – Moderated by Despina Magiri-Skouloudi

*Panellists: Mar Pérez-Fortes (TU Delft)(EB Member), Bertus van den Burg (IMEZ),
Joanna Tsiganou (EKKE)(EB Member)*

11:45 -12:15 Wrap-up & Conclusions

Montse Bosch (LEITAT)

12:15-13:00 End session & Networking for in-person participants

In-person participants will have free time to network before departing venue for site visit

12:15-13:00 Exit venue for lunch on boat

Site Visit for project partners and invited guests (13:00-16:00*)

For those attending in-person, the site visit will incorporate visits to the Arcelor Mittal sites located in Ghent. Of particular note, will be the launch of the BIOCON-CO₂ mobile unit at the Steelanol site in Ghent. A packed lunch will be provided.

13:00-14:00 Lunch on boat

A packed lunch will be provided as we travel by boat to meet the coach.

14:00-14:20 Travel via coach to Arcelor Mittal site

14:20-15:00 Inauguration of BIOCON-CO₂ Mobile Unit

Visit the mobile unit that was developed as part of the project, there will be an opportunity for a Q&A with the partners involved

15:00-15:10 Return to coach and travel to Steelanol site

15:10-15:40 Steelanol site visit

Visit the Steelanol site viewing platforms for a talk and Q&A with engineers

15:40-16:00 Return to North Sea Port Visitor Centre

16:00* End of Site Visit

*Please note that this is the provisional time. We will make every effort to conclude on time however unforeseen delays such as traffic may delay the end time for this visit.