

The European **CARBON**

DIOXIDE UTILIZATION

SUMMIT

Key Topics

- Legislation and regulation - an overview and outlook
- Scalability of CCU deployment
- Financial state and investment in CCU deployment
- Alternative fuels; CCU and E-Fuels
- Niche and novel CCU applications
- Creating and sustaining CCU infrastructure across Europe
- CO2 Utilisation in the construction industry
- Carbon capture developments



Event Sponsors

SULZER



BILFINGER

TOPSOE

FLUOR[®]



fortum

Following the success of its previous editions, ACI's **European Carbon Capture and Utilisation Summit** will be taking place in Hamburg, Germany, on the 25th and 26th October 2023.

With ever increasing focus on sustainability and decarbonisation, many industries are looking for ways to use CO₂ to both remove harmful emissions, and find value from this perceived “waste” material. This event will focus on new CO₂ utilisation developments and technologies in the oil and gas, chemicals, energy, building and E-Fuels industries, as well as other-end markets.

The two day event will bring together industry leaders from across the CCU industry—with speakers from leading consultancies, concrete makers, investors, E-Fuels companies, and more.

Agenda Committee

Jan Mertens, Chief Science Officer, **Engie**
Jessica Elwell, Chief Operating Officer, **Oxeon Energy**
Oskar Meijerink, Head of Future Fuels, **SkyNRG**
Tudy Bernier, Senior Policy Manager, **CO2 Value Europe**
Jan Skocek, R&D Program Manager Carbonation, **HeidelbergCement**
Christoph Guertler, **Covestro**

Who Will Attend?

- Policy, Regulation & Environmental Associations.
- Chemical product manufacturers.
- Building and construction companies.
- Venture capital firms and funding organisations.
- Petrochemical, oil and gas consulting firms.
- Oil, gas, energy and chemical companies with alternative energy departments.
- Biofuel, liquid fuel and E-Fuel companies.

Registration Is Simple

If you would like to register for this event or wish to find out more information, you can contact **Rohan Baryah** using any of the following methods:

Tel: +48 (0) 61 646 7022

Email: rbaryah@acieu.net

Online: <http://www.acieu.net>

Conference Fees

| | |
|--|-----------------------|
| Conference (Includes Documentation Packet) 25th & 26th October 2023 | £1,895 (Excl. VAT) |
|--|-----------------------|

| | |
|---------------------------|------|
| Documentation Packet Only | £495 |
|---------------------------|------|

Members and customers of all supporting organisations are entitled to a discount off their conference package.

Discounts are available for multiple/group bookings.



Opportunities to Meet Your Target Audience:

For information on available commercial opportunities, please contact:

Hubert Sosnowski

+48 61 646 7059 - hubert@acieu.net

DAY 1

Wednesday 25th October 2023

08:00 **REGISTRATION & COFFEE**

09:00 **CHAIR'S OPENING REMARKS**

09:15 **CONFERENCE PRESENTATION**

Legislation and regulation - an overview and outlook

- Looking at the way forward for the industry with current and future legislation in mind
- Addressing RED III in its final stages
- Effects of the political climate on CCU development

Tudy Bernier
Senior Policy manager
CO2 Value Europe

10:00 **CONFERENCE PRESENTATION**

CCU's energy intensity, and impact on grid networks

- Considering where electricity will be drawn from to supply the energy demands of CCU
- Addressing taking power from other green industries, and coping with green energy

10:45 **MORNING REFRESHMENTS**

11:30 **SESSION ONE**

Niche and Novel CCU Applications

- Overview of recent new technologies and projects in the field
- CCU & the waste incineration sector
- Food grade CO2 with a look to where it can be applied
- Sustainability challenges with bio CCU
- Discussing available technologies and their applications for CO2 Utilisation, and addressing the need for new, low energy utilisation technologies

Robert Gresser
Innovation consultant
I2V Innovation to Value

Tony Rehn
Program Director, Waste to Materials
Fortum

Senior Representative
Bilfinger

13:00 **LUNCH**

14:30

SESSION TWO

CO2 utilisation in the construction industry

- Using CO2 for the Mineralisation of concrete
- Creating ethanol via the production of steel
- CO2 capture meets mineralization in the liquid phase for a sustainable construction industry

Thomas Parker
Founder
WA3RM

Jan Skocek
R&D Program Manager
Carbonation Technologies
HeidelbergCement

 Cecilia Mondelli
Head CCU & Biobased Technology Development
Sulzer

Pim van Keep
Sales Director BeNeLux
Aker Carbon Capture

16:30

AFTERNOON REFRESHMENTS

17:15

CONFERENCE PRESENTATION

E-Methanol as a valuable feedstock for inter-industry application

- Hydrogenation of CO2 to methanol
- Methanol as a base chemical

Nina Kolbe
Project Manager
ThyssenKrupp

17:35

PANEL DISCUSSION

Financial state and investment in CCU deployment

- The ETS and its effect on trade and investment
- What the current investment climate means for future growth
- The importance of public funding

Peter Van Gelderen
Partner
ICOS Capital

18:20

CHAIR'S CLOSING REMARKS

18:25

CLOSE OF DAY ONE & NETWORKING DRINKS

DAY 2

Thursday 26th October 2023

08:30 **REGISTRATION & COFFEE**

09:00 **CHAIR'S OPENING REMARKS**

09:05 **CONFERENCE PRESENTATION**

Scalability of CCU deployment

- Addressing the scale of CCU and commercial viability
- How potentials of scale affect adoption of CCU

09:50 **CONFERENCE PRESENTATION**

Creating and sustaining CCU infrastructure across Europe

- Europe-wide P2X projects
- Considering projected infrastructure

Deepak Pant
Senior Scientist
VITO

10:35 **CONFERENCE PRESENTATION**

Turning CO₂ into High-Performing & Biodegradable Plastic Materials

- Avantium has developed & proven novel solutions for the electrochemical conversion of CO₂ conversion to added value chemicals & has a long standing expertise in the development of new renewable polymers & new polymerization routes
- Avantium is now taking the step to reach the next level and develop a complete value chain from CO₂ utilization to the production of high-performing, biodegradable CO₂-based plastic materials for packaging, textiles & other applications
- In recent years, we have developed a pathway for the conversion of CO₂ to glycolic acid, which is then used to produce poly(lactic-co-glycolic acid), PLGA, through a new polymerization route
- This polymer has excellent water and gas barrier properties, it is fully biodegradable and 100% made from renewable feedstock and with a minimum content of 75% coming from CO₂, which makes it a promising candidate for the replacement of fossil polyethylene



Mariana Paredinha Araujo
Scientist, Electrochemistry
Avantium

10:55 **MORNING REFRESHMENTS**

10:55 **MORNING REFRESHMENTS**

11:40 **SESSION THREE PART ONE**

Alternative fuels; CCU and E-Fuels

- Use of E-Fuels in aviation & maritime
- Potential for using E-fuels in private transport, and aiding the energy industry in achieving 2050 targets

Oskar Meijerink
Head of Future Fuels
SkyNRG

Ken Omersa
CEO
Omnagen

12:55 **LUNCH**

14:25 **SESSION THREE PART TWO**

Alternative fuels; CCU and E-Fuels

Gunnar Holen
CEO
Nordic Electrofuel

Ralph-Uwe Dietrich
Research Area Manager
Alternative Fuels
DLR

Karl Hauptmeier
CEO
Norsk e-Fuel

16:15 **AFTERNOON REFRESHMENTS**

17:00 **SESSION FOUR**

Carbon Capture Developments

- Advances in direct air capture, and the impact this could have on the industry.
- Importing and shipping of CO₂ across the world – evaluating the economic and life cycle effects.
- Improvement to efficiency of CC technologies, and the impact that may have on utilisation industries.

Michalis Agraniotis
Senior Business Development Manager
Mitsubishi Heavy Industries

Samiya Parvez
Process Engineer, Downstream Refining
Fluor Corporation

Senior Representative
Haldor Topsoe

18:30 **CHAIR'S CLOSING REMARKS**

18:40 **END OF CONFERENCE**