

18th Carbon Dioxide Utilisation Summit

Dusseldorf
5th-6th October 2022

Addressing legislative issues and technical developments
in the CO₂ Utilisation industry

Key Topics

- Reviewing International Legislation and Effects of the Green Deal on Europe.
- Addressing Challenges and Opportunities in Financing CCU Projects.
- Case Studies of CCU Projects.
- Recent Technological Advances for Carbon Dioxide Utilisation.
- Fuels, E-Fuels and Power to Liquid Projects.
- Chemical Production from Carbon Dioxide.
- Mineralisation.
- Carbon Capture, Storage and Transportation Developments.

RWE Site Visit



On Tuesday 4th October, in the afternoon prior to the conference, a limited number of attendees will be permitted the unique opportunity to visit RWE's Innovation Centre at the Niederaussem Power Station, Please register your attendance for the site visit when booking for the conference.

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TOPSOE

**CO₂ FOKUS**
ADVANCING CO, CONVERSION

Sponsorship & Exhibition Opportunities:
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More Information & Registration:
Rohan Baryah, +48 61 646 7022
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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 conference will also highlight international legislation; updates and requirements of the industry, as well as an overview of the market since the 2015 Paris agreement.

Already on the 18th edition of a successful series, ACI is delighted to announce the 2022 European Carbon Dioxide Utilisation Summit. The event will bring together senior executives and experts from the utilisation industry, as well as policy makers, consultants, technology innovators and leading market analysts



Agenda Committee

Christoph Guertler, Head of Catalysis and Incubation Technologies, **Covestro**

Diego Santamaria Razo, **CRH**

Gunnar Holen, CEO, **Nordic Electrofuel**

Nina Kolbe, Project Manager, **Thyssenkrupp**

Oskar Meijerink, Business Development Manager, **SkyNRG**

Jan Skocek, R&D Program Manager Carbonation Technologies, Global R&D, **HeidelbergCement**

Ken Omersa, CEO, **Omnagen**

Who Will Attend?

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

Site Visit

Tuesday 4th October 2022

RWE's Coal Innovation Centre at the Niederaussem Power Station



How can CO₂ that results from energy generation be made into a usable raw material? To answer that question, the EU and German government have funded three new scientific research pilot projects at the RWE Innovation Centre in Niederaussem. These CCU Projects are developing innovative processes to create high-quality raw materials for the chemicals industry and general-use propellants.

The three projects, known as ALIGN-CCUS, OCEAN and LOTER.CO2M are investigating different processes with different synthetic end products.

Itinerary: 12pm—Meet at the lobby of Hotel

1:00pm-1:30pm: Arrive at Site and Introduction

1:30pm-3:00pm: Tour of the Site

3:00pm-3:30pm: Final Questions and Leave the Site

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

Conference Fees

Conference (Includes Documentation Packet) £1,795

Documentation Packet Only £470

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

Opportunities to Meet Your Target Audience:

Showcase your technologies to the industry, with opportunities to demonstrate the capabilities of your latest products and services. Companies can gain direct access to our senior level audience and have an increased level of visibility and exposure through branding and networking at the conference. This will allow you to attract new business and forge lasting commercial relationships.

For information on available commercial opportunities, please contact:

Karol Lewicki

Tel: +48 61 6467 038

Email: karol@acieu.net

DAY 1

Wednesday 5th October 2022

08:00	REGISTRATION & COFFEE
09:00	CHAIRMAN'S OPENING REMARKS
	<div style="border: 1px solid black; padding: 10px; text-align: center;"> <p>Robert Gresser Innovation Consultant I2V - Innovation to Value</p> </div>
09:15	SESSION ONE
	<p>Reviewing International Legislation and Effects of the European Green Deal</p> <ul style="list-style-type: none"> Addressing the uncertainty and unreliability of classification in CO₂ production and application, and what is classified as "renewable" CO₂ taxation and pricing systems - How these could aid the CCU market and push industries towards CO₂ utilisation. Lowering the risk that large corporations see in the market by filling with clear and supportive legislation.
09:15	<p>CCU in EU Climate Policies: 2022, a Landmark Year?</p> <ul style="list-style-type: none"> CCU: What definition at EU level. EU legislations: why 2022 is a pivotal policy moment at EU level for CCU. Beyond 2022: Policy challenges & opportunities ahead.
	<div style="border: 1px solid black; padding: 10px;">  <p>Tudy Bernier Senior Policy Manager CO₂ Value Europe</p> </div>
09:45	<div style="border: 1px solid black; padding: 10px; text-align: center;"> <p>Paul Zakkour Director Carbon Counts</p> </div>
10:15	<div style="border: 1px solid black; padding: 10px; text-align: center;"> <p>Matthias Ólafsson Manager - Government & Public Affairs - Europe Methanol Institute</p> </div>
10:45	Panel Q&A
11:05	MORNING REFRESHMENTS

11:35	PANEL DISCUSSION
	Addressing Challenges and Opportunities in Financing CCU Projects
	<ul style="list-style-type: none"> The importance of public funding infrastructure that is needed to get the industry going. Encouraging the funding for green investments, R&D and CCU projects with a long-term mindset. The rise of voluntary and non-compliance organisations.
	<div style="border: 1px solid black; padding: 10px; text-align: center;"> <p>Anastasios Perimenis Secretary General CO₂ Value Europe</p> </div>
	<div style="border: 1px solid black; padding: 10px; text-align: center;"> <p>Peter van Gelderen General Partner and CIO ICOS Capital</p> </div>
12:20	SESSION TWO
	Carbon Capture, Storage and Transportation Developments
	<ul style="list-style-type: none"> 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 CCS technologies, and the impact that may have on utilisation industries.
12:20	<p>CO₂ - From Pollutant to Product - MHI's Carbon Capture Technology</p> <ul style="list-style-type: none"> History of Technology Development. Worldwide Commercial Experience. Future Outlooks - Needs in the EU Market.
	<div style="border: 1px solid black; padding: 10px;">  <p>Florian Möllenbruck Project Manager, Carbon Capture and Power-to-Fuel Mitsubishi Heavy Industries</p> </div>
12:50	Panel Q&A
13:00	LUNCH AND NETWORKING
14:00	SESSION THREE
	Case Studies of Current and Future CCU Projects
	<ul style="list-style-type: none"> Overview of existing and successful CO₂ projects. Discussing challenges and opportunities within projects, collaborations and cluster projects.

- Overview of future CCU projects and outlook.

Robert Gresser
Innovation Consultant
I2V - Innovation to Value

Sorin Ivanovici
Head of Department, Hydrogen
and Synthetic Products
OMV

Sarah Endres
Business Development
Manager
EEW - Energy from Waste

15:30 **Panel Q&A**

15:50 **AFTERNOON REFRESHMENTS**

16:20 **CONFERENCE PRESENTATION**
Efficient Conversion of CO₂ to Fuels Using
SOEC Electrolysis



Christian Wix
Head of Product
Development
Topsoe

TOPSOE

16:40 **Presentation Q&A**

16:50 **SESSION THREE**
Recent Technological Advances for CO₂
Utilisation

- Discussing available technologies and their applications for CO₂, and addressing the need for new, low energy utilisation technologies.
- Scaling up new technologies, and the requirements for industrial use. What to expect in the coming years.
- New synthetic techniques for CO₂ conversion.

Deepak Pant
Senior Researcher
**VITO - Flemish Institute for
Technological Research**

Damien Voiry
Academic Researcher
University of Montpellier

17:50 **Panel Q&A**

18:05 **CLOSE OF DAY ONE**

DAY 2

Thursday 6th October 2022

08:30 **REGISTRATION & COFFEE**

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

Robert Gresser
Innovation Consultant
I2V - Innovation to Value

09:05 **SESSION FOUR - PART ONE**
Fuels, E-Fuels and Power-to-Liquid Projects

- Use of E-Fuels in aviation and maritime industries.
- Potential for using E-Fuels in private transport, and aiding the electric industry to achieve 2050 targets.
- Aviation and shipping fuels - Diesel blend opportunity?



Ralph Uwe Dietrich
Team Leader, Techno-
Economic Analysis
DLR

Akis Souvaliotis
Process Advisor - Advanced
Fuels
ExxonMobil



Carl Berninghausen
Executive Chairman
Sunfire

10:35 **Panel Q&A**

10:55 **MORNING REFRESHMENTS**

11:25 **SESSION FOUR - PART TWO**
Fuels, E-Fuels and Power-to-Liquid Projects

- Use of E-Fuels in aviation and maritime industries.
- Potential for using E-Fuels in private transport, and aiding the electric industry to achieve 2050 targets.
- Aviation and shipping fuels - Diesel blend opportunity?



Gunnar Holen
CEO
Nordic Electrofuel

Oskar Meijerink
Business Development Manager
SkyNRG

Jessica Elwell
COO
OxEn Energy

11:55 **Panel Q&A**

13:15 **LUNCH AND NETWORKING**

14:15 **SESSION FIVE**

Chemical Production from CO₂

- Use of E-Fuels in aviation and maritime industries.
- Potential for using E-Fuels in private transport, and aiding the electric industry to achieve 2050 targets.
- Aviation and shipping fuels - Diesel blend opportunity?

Jan B Sagmo
CEO
Bergen Carbon Solutions

15:15 **Panel Q&A**

15:30 **CONFERENCE PRESENTATION**

CO₂ Mineralisation

- Mineralisation within the concrete industry, recent developments.
- Recycling mineral waste to reduce environmental impact and increase sustainability.
- Applications of mineralisation within the building industry, recent developments.

16:00 **Presentation Q&A**

16:10 **CHAIRMAN'S CLOSING REMARKS**

Robert Gresser
Innovation Consultant
I2V - Innovation to Value

16:20 **END OF CONFERENCE & AFTERNOON REFRESHMENTS**

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