

CO₂-based Fuels and Chemicals Conference 2026

28-29 April 2026

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Main Sessions

Grand Hall

#2026CCU



Parallel Session

Day 2, 11:00–13:00

Room Adelheid

#2026CCU-2

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#2026CCU

Day 1

28 April 2026

9:30

Lars Börger, nova-Institute (DE)

Conference Opening

Minister Mona Neubaur, Ministry of Economic Affairs, Industry, Climate Action and Energy of the State of North Rhine-Westphalia (DE)

Video Message

Strategy, Certification & Sustainability

9:40

Michael Carus, nova-Institute (DE)

When Will CCU Go Mainstream?

10:00

Naser Odeh, KAPSARC (SA)

Strategic Prioritization of Carbon Capture and Utilisation Pathways for Saudi Arabia's Circular Carbon Economy

10:20

Esther Hegel, Roundtable on Sustainable Biomaterials (CH)

Certifying Sustainability: Frameworks for CO₂-based Fuels and Materials

10:40

Ángel Puente, nova-Institute (DE)

Sustainability in CCU

11:00

Nils Rettenmaier, ifeu (DE)

Integrating Prospective Life Cycle Assessment into Early Development of Carbon Capture Technologies

11:20

Panel Discussion with all Session Speakers

11:40

Lunch Break & Networking

Renewable Hydrogen Production, Biogenic CO₂ Sources & Carbon Capture

13:05

Stefan Herrig, NRW.Energy4Climate (DE)

The Hydrogen Economy in North Rhine-Westphalia – Where Does the Ramp-up Stand? What's Next?

13:25

Maryanne Maina, TNO (NL)

The Indispensable Role of Low-Emissions Hydrogen in the Chemicals Industry

13:45

Florian Kleinwächter, Holcim (DE)

Carbon2Business – From Real-world Laboratory to Implementation

14:05

Panel Discussion with all Session Speakers

14:20

Coffee Break & Networking

14:50

Eric Rambech, Endrava (NO)

Unlocking Hidden CO₂: AI Approaches to Identifying Industrial Biogenic Emissions Outside Europe and North America

15:10

Joséphine Gigon, SGS Beta (US)

Leveraging Carbon-14 Biogenic Content Measurement To Quantify CO₂ Capture, Utilisation and Removals (CCU)

15:30

Bijan Cour, Kanadevia Inova (CH)

tba

15:50

Anita Demuth, PtX Lausitz (DE)

Onboard Carbon Capture and Usage (OCCU) for PtX Fuels

16:10

Panel Discussion with all Session Speakers

Poster Pitch Session

16:30

Heleen de Wever, VITO (BE)

UNICO2RN – Flexible and Efficient Capture and Bioconversion of CO₂ to Materials and Ingredients

16:35

Gia Trung Hoang, KIT (DE)

Catalytic Approaches for Sustainable Production of Synthetic Hydrocarbon Fuels from Methanol/DME

16:40

Eduardo Bernad, Aragon Hydrogen Foundation (ES)

Modular Cascade Technology for CO₂ Conversion into Synthetic Fuels

16:45

Snehal Pujar, TNO (NL)

CO₂ Utilization for Renewable Aromatics: Insights, Innovations, and Future Directions



Presentations of the Nominees for the “Best CO₂ Utilisation 2026”

16:50

Anastasios Perimenis, CO₂ Value Europe (BE)

17:00

Michael Carus, nova-Institute (DE)

Innovation Award Introduction

17:10

Steven Bardey, Aerleum (FR)

Direct Carbon Utilisation Technology

17:20

Colin O’Brien, CERT Systems (CA)

Air-to-Chemicals

17:30

Michele Tille, CYNiO (DE)

Specialty Isocyanates made from CO₂

17:40

Ammar Hyder, ICODOS (DE)

Cost-Competitive E-Methanol Production Through
Interlinked CO₂ Capture and Methanol Synthesis

17:50

Todd Thoreau Brix, OCOchem (US)

OCOchem FluX Electrolyzer 400

18:00

Andrea Facchin, RAPCO2 (IT)

BlueLeaf and eJungle

18:10

Online Voting

18:15

Martin Lindmeyer, Yncoris (DE)

Innovation Award Ceremony

18:20

Networking with Local Beer and Poster Session

20:00

Gala Dinner

22:00

German Bowling

Day 2

29 April 2026

9:00

Lars Börger, nova-Institute (DE)

Day Opening

CO₂ to Chemicals & Fuels

9:10

Stephan Renninger, Cyclize (DE)

Enabling a Carbon Circular Economy Through CO₂ and Waste Conversion

9:30

Ammar Hyder, ICODOS (DE)

Achieving Cost-Competitive Green Fuel Production Through Interlinked CO₂ Capture and Methanol Synthesis

9:50

Rudolf Dörpinghaus, IASA (DE)

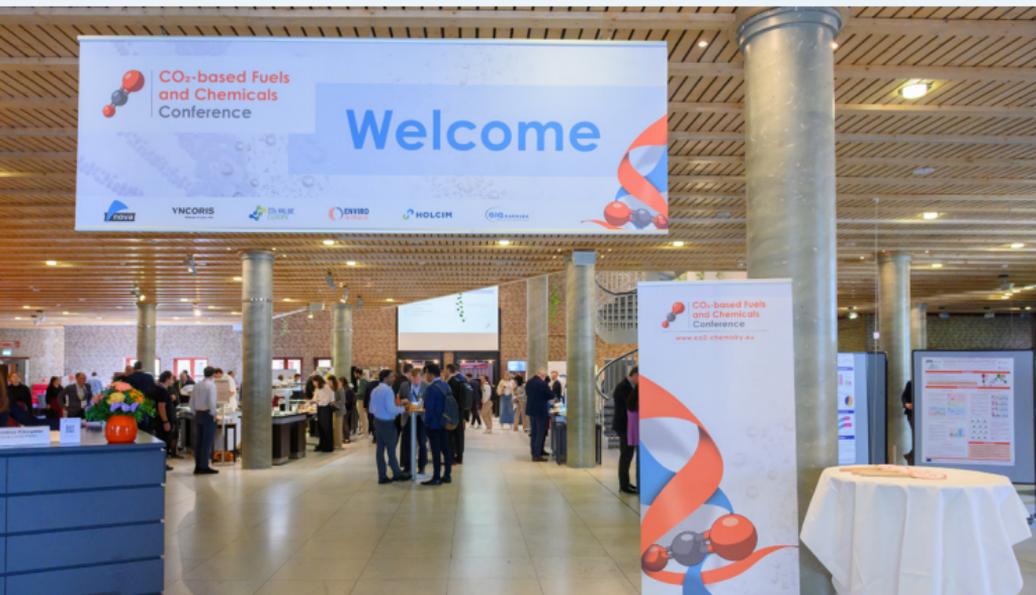
Fuels in Focus – How to Mitigate the Impact of Aviation on Climate Change

10:10

Panel Discussion with all Session Speakers

10:30

Coffee Break & Networking



CO₂ to Chemicals, Fuels, Polymers & Materials

11:00

Reinier Grimbergen, Blue Circle Olefins (NL)

Carbon Dioxide to Chemicals – Quo Vadis?

11:20

Achim Schaadt, Fraunhofer Institute for Solar Energy Systems ISE (DE)

DME – Sustainable All-Rounder for Defossilization

11:40

Alex Hogan, Vioneo (UK)

Timing the Transition – Investing in Fossil-Free Polymers through MTO

12:00

Nick Smith, Viridi (UK)

Solving Critical Challenges to the Surfactant Industry with a new CO₂-to-Polymers Catalyst

12:20

Enzo Duriez, Lesaffre International (FR)

CCU for Food – The Development of More Sustainable and Resilient Solutions for Food Production Through an Open Innovation Approach

12:40

Panel Discussion with all Session Speakers

13:00

Lunch Break & Networking



Advanced Research in CCU

Parallel Session, Room Adelheid

11:00

Svenja Knösch, Technical University of Munich (TUM) (DE)
Influence of Flue Gas Contaminants on Solvent Stability and Performance in Amine-Based CO₂ Capture

11:20

Theresa Hauth, Technical University of Munich (TUM) (DE)
Analysis of an Electricity-Price Optimized Operating Strategy of a Carbon Capture and Power-to-Methanol Pilot Plant

11:40

Annelie Jongerius, Avantium Chemicals (NL)
Powering the Future: Advancing Electrochemical CO₂ Conversion with the WaterProof Project

12:00

Markus Janasch, SINTEF (NO)
Unlocking CO₂-Based Biomanufacturing: Multi-Omics-Driven Optimization of Gas Fermentation Coupled to Acetate-Based Production of Proteins and Omega-3 Fatty Acids

12:20

Thorsten Jänisch, German Aerospace Center (DLR) (DE)
Technology Platform Power-to-Liquid Fuels (TPP) – Addressing the Obstacles of Scaling-up PtL Production

12:40

Panel Discussion with all Session Speakers

13:00

Lunch Break & Networking



CO₂ Utilisation Technologies

14:30

Christian Kühne, THINKTANK Industrielle Ressourcenstrategien (DE)

AI-based Research on Low-energy and Hydrogen-free CCU Technologies for Small and Medium-sized Enterprises (SMEs)

14:50

Mohammad Rezaei, GIG Karasek (AT)

The Green Frontrunner Project – Advancing Electrochemical CO₂ Conversion from Concept to Pilot Scale

15:10

Tamás Földi, eChemicles (HU)

Low-Temperature CO₂ Electrolysis in a Real Industrial Setting

15:30

Mariasole Cipolletta, Rosetti Marino (IT)

Electrifying Syngas Production from CO₂ and Green Hydrogen: from Lab to Pilot

15:50

Colin O'Brien, CERT Systems (CA)

Scaling CO₂ Electrolysis: Process Development of an Air-to-Ethylene Pilot Plant

16:10

Panel Discussion with all Session Speakers

16:25

Lars Börger, nova-Institute (DE)

Closing Remarks and End of Conference

16:30

End of the Conference

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