


September 2022

CO₂fokus newsletter



CO₂Fokus aims to develop cutting-edge technology to convert industrial CO₂ into DME (Dimethyl Ether), a valuable gas extensively used in the chemical and energy sectors, providing an alternative to fossil fuel-derived feedstock.

CO₂Fokus project presented at the DME9 Conference

On the 16th of June 2022, CO₂Fokus Project Coordinator Vesna Middelkoop from VITO and Lamiaa Biaz from LGI have attended **the 9th International DME Conference (DME9)**, where they presented the CO₂Fokus project.

The DME9 Conference, organized annually by the International DME Association, took place from the **15th to 17th of June 2022 in Zurich & Dübendorf in Switzerland**. The event brought together all key DME stakeholders, technology and project developers. Its aim was to provide an overview of global developments in DME's production, commercialization and use, with a strong emphasis on renewable DME infrastructure capability and readiness.

The conference programme included, in addition to **workshops and a site visit, an eventful agenda of key note speakers**. CO₂Fokus was given the opportunity to introduce the project, highlighting the project's combination of innovative technologies for utilising CO₂ (captured at large emission sources) and green hydrogen, able to produce renewable dimethyl ether (rDME).

Both CO₂Fokus' technical aspects and recent rDME market analysis were introduced to the audience. We were proud to present several DME applications and environmental advantages, especially **its ability to replace diesel in machines and transportation vehicles**, highlighting rDME's role as a key contributor to defossilisation and decarbonisation processes. Moreover, it was emphasised, rDME usage requires minor changes to vehicles' engines (for instance, trucks), enabling synergies with the LPG industry (whose representatives were in attendance at the

presentation) in terms of infrastructure and blending.

As CO2Fokus partners, we were excited and honored to be part of the rDME community and to be given the opportunity to reach the prominent technology leaders and so many potential DME stakeholders from US, Europe, Asia, South America, while looking forward to new developments and collaborations.



Fifth Consortium Meeting

On the **9th of April**, CO2Fokus partners joined the **Fifth Consortium Meeting in Brussels** in hybrid mode, the first Consortium Meeting after Covid-19 travel restrictions were lifted. Following several online meetings, the opportunity to gather in person prompted fresh focus and created additional potential for new and open technical discussions among partners, defining next project steps while keeping track of current activities.



The technical highlights of the meeting in terms of technical and overall project progress were: **CO2Fokus catalyst structures were 3D printed in various materials compositions and the reactor's design was completed**; environmental and socio-economic life cycle assessment studies are ongoing while a detailed market analysis and exploitation strategy was defined based on stakeholders' feedback.

The next gathering will take place this month (September 2022) and will be hosted by the partner ICI Caldaie in Verona, Italy.

18th Carbon Dioxide Utilization Summit

On the **5th and 6th of October**, CO2Fokus will participate in the **18th Carbon Dioxide Utilization Summit in Dusseldorf, Germany**, with an exhibition stand.

With the ever-increasing focus on sustainability and decarbonisation, many industries are looking for ways to use captured CO₂, to lower harmful emissions, and produce value from this perceived "waste" material. The event, that is organized by *Active Communications International (ACI)*, **will focus on new CO₂ utilisation developments and technologies in the oil and gas, chemicals, energy, mineralisation and E-Fuels industries, as well as other CO₂-intensive markets**. The CO2Fokus project will seize this opportunity to showcase its technology and applications to potential clients, meet industry stakeholders, and discuss challenges, opportunities and developments in Carbon Capture Utilisation.

Other key topics of the conference include changes in international legislative frameworks, updates and requirements for the industry, as well as an overview of market developments since the 2015 Paris agreement.

The European 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

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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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