

CO₂ utilisation: a transformation potential into products of industrial interest

Webinar of the Repsol Foundation Chair in Energy Transition at the Rovira i Virgili University

Date: *Tuesday, 28th January 2025, Time: 10:00h to 12:00h (GMT+2)*

Place: *online*

The European Union has set out a plan to eliminate by 2050 net greenhouse gas emissions, mainly caused by carbon dioxide to achieve a climate-neutral society. These actions will generate important stocks of CO₂ that can be reused by means of carbon capture and utilization, as raw material for obtaining carbon-containing products. However, CO₂ utilization technologies still face challenges such as the development of more efficient and economically viable conversion and purification technologies, as well as the stability and regeneration of the catalysts and adsorbents used in these processes.

The Repsol Foundation Energy Transition Chair at the Rovira i Virgili University and CO₂ Value Europe are organizing this webinar in which these technologies for CO₂ utilization, their challenges and opportunities will be explored.

10:00 Welcome and introduction.

- **Anna María Masdeu**, Full professor of the Repsol Foundation Energy Transition Chair at Rovira i Virgili University on CO₂ Capture and Use
- **Ruth Yerga**, Coordinator of the Repsol's Foundation Network of University Chairs.

10:10 Keynote: Carbon Capture and Utilisation: Technologies, Pathways, and Commercial Realities

- **Anastasios Perimenis**, Secretary General CO₂ Value Europe.

10:30 The role of research in carbon utilisation.

- **Anna María Masdeu**, Full professor of the Repsol Foundation Energy Transition Chair at Rovira i Virgili University on CO₂ Capture and Use

10:40 Panel of experts: Carbon utilization in practice

- *E-fuels production*. **Diana Cano**, Head of Renewable Fuels Projects at Repsol.
- *CCU-to-Chemicals*. **Pelayo García**, Group Leader at the Institute of Photonic Sciences, ICFO.
- *CO₂ as an energy carrier*. **Walter Leitner**, Director of the Molecular Catalysis group at the Max Plank Institute for Chemical Energy Conversion.
- *CO₂ mineralisation*. **Peter Gunning**, Director of Sustainability and Technology at O.C.O. Technology (to be confirmed).

11:40 Q&A

- **Anna María Masdeu**, Full professor of the Repsol Foundation Energy Transition Chair at Rovira i Virgili University on CO₂ Capture and Use

11:50 Closing

- **Anna María Masdeu**, Full professor of the Repsol Foundation Energy Transition Chair at Rovira i Virgili University on CO₂ Capture and Use