

Innovation Hub
Partner Network
Market Developer

ENCO₂RE =

EnCO₂re is enabling CO₂ re-use.
An open innovation programme.



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EnCO₂re is an innovation and market development programme for CO₂ re-use. Our vision is a balanced and prosperous market for re-used CO₂. Our ambition is large-scale CO₂ re-use through the establishment of a CO₂ value chain.

Get involved and help us make this vision come alive.

What is CO₂ re-use?

From climate killer to valuable resource – this could be the retrospective assessment of CO₂ by the middle of the 21st century. Although avoiding CO₂ emissions remains the bottom line for climate protection, re-using CO₂ is on the agenda of an increasing number of scientists and companies.

Re-using CO₂ (also known as CCU, or Carbon Capture and Utilisation) means to use waste carbon dioxide as a raw material for products.

New research offers energy efficient ways to make the inert molecule react with other elements. Energy efficiency of the process is the precondition of the economic and environmental practicality of re-using the “C” in CO₂.

CO₂ can be used for producing polymer materials like foams, fibres and rubbers. Another opportunity is to produce chemical intermediates or fuels from CO₂ by letting it react with power and hydrogen. Through these new methods, CO₂ re-use has the potential to close industrial CO₂-circles and thus contribute to industrial circular economy.

Who are we?

EnCO₂re was co-initiated by Climate-KIC and industry partner Covestro, forming a consortium of 12 European partners from industry and research sectors. The programme has a comprehensive approach towards CO₂ re-use and comprises activities in technology development, technology acceptance, ecological assessments and market development.

EnCO₂re is pronounced like the French word *encore*, meaning “again,” in reference to the re-use of CO₂ the programme aims to enable.

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