



CATCO2NVERS, a project that seeks to reduce greenhouse gas from the bio-based industries, kicks off

- CATCO2NVERS is led by FUNDITEC and formed by fifteen partners from eight countries.
- CATCO2NVERS has received €6,6 million funding from the European Union's Horizon 2020 Research and Innovation Programme.

Madrid (Spain), May 27th, 2021. A European consortium is working on the implementation of CATCO2NVERS, a new Horizon 2020 research and innovation project that kicked off this month and which aims to create added-value chemicals from bio-industrial CO₂ emissions using integrated catalytic technologies.

The consortium is formed by fifteen partners from eight European countries that will work for 48 months to bring the use of CO₂ for the production of chemicals a step closer to industrial implementation taking into account their market projection and public perception to support the European Union in becoming a global leader in CO₂ re-use technologies.

The core purpose of CATCO2NVERS is to reduce greenhouse gas emissions (GHG) from the biobased industry by developing five innovative and integrated technologies based on three catalytic processes (electrochemical, enzymatic, and thermochemical). **The project objective is to transform waste-CO₂ from two biobased industries into five added-value chemicals: glyoxylic acid, lactic acid, furan dicarboxylic methyl ester, cyclic carbonated fatty acid methyl esters, and bio-methanol, with application in the chemical, cosmetics, and plastic industries.**



CATCO2NVERS will process biobased products replacing fossil material with zero or negative greenhouse gas emissions, which will contribute to setting up sound business models involving all the value chain stakeholders and bringing down environmental impacts and production costs.

In summary, CATCO2NVERS is focused on reducing industrial CO₂ emissions while exploring new procedures to produce bioproducts. With this aim, a bottom-up approach is used by the design and development of innovative catalytic technologies for the valorisation of CO₂ in the fabrication of different biobased products, including monomers for bioplastics production, using CO₂ streams from biorefineries.

About CATCO2NVERS

Coordinated by Foundation for Development and Technological Innovation (FUNDITEC), CATCO2NVERS is formed by Alchemia-nova, AVA Biochem, Avantium Chemicals BV, CARTIF, CSIC, DAN*NA Artificial Nature, EVYAP, University of Twente, Hysytech, Nova-Institute, Johnson Matthey, PERSEO Biotechnology, Sustainable Innovations and Wageningen Food & Biobased Research.

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