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Sustainable Plastics - Joining CCU, Circular Economy and Power-to-X for better Polymers

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Sustainable Plastics - Joining CCU, Circular Economy and Power-to-X for better Polymers

+++ The two projects Carbon4PUR and CO2EXIDE invite you to their final joint presentation of R&D results on renewable production routes towards polyurethanes and ethylene oxide derivatives +++ Focusing on CO/CO2 as raw materials for sustainable chemistry +++ A pan-European approach to a global challenge +++ Framed by contributions and statements of the European Commission, experts from science and industry, and board members of the industrial partners +++

CLIMATE CHANGE AND ENVIRONMENT

INDUSTRIAL TECHNOLOGIES

25 Mars 2021 - 25 Mars 2021

online, Germany

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State-of-the-art CCU technologies are paving the way to a future industry that is independent of fossil feedstock. New approaches are addressing the challenges and opportunities of turning our linear “throw-away” society into a Circular Economy, in which recycling processes form the basis of a sustainable production.

These are the core elements of the Horizon 2020 projects Carbon4PUR and CO2EXIDE. Our aim is to reuse carbon from CO and CO2 as a raw material for the synthesis of epoxides and polyurethanes.

Utilising off-gas from a steel plant or a biogas plant as feedstock, we follow two different conversion paths and target complementary end products on the pathway to alternative plastics production based on carbon recycling. In our joint symposium “Sustainable Plastics – Joining CCU, Circular Economy and Power-to-X for better Polymers” we will present the projects’ main results, thus showcasing the potential of a comprehensive linkage between EU-funded research.

The symposium will start with a keynote of Søren Bøwadt (European Commission) who will outline the current funding policy in the Green Deal and Horizon Europe programmes, thus relating the research topic of the two Horizon 2020 projects to the European future goals. Michael Carus (nova institute) will elucidate the Renewable Carbon Strategy that proposes the combined use of biomass, CO2-utilisation and recycling for sustainable production chains. Nives Gonzalez Ramon (Cefic / SusChem) will present the recently-published Sustainable Plastics strategy.

Framed by statements of their board members, the consortium partners of Carbon4PUR and CO2EXIDE will then give a detailed overview on the central outcomes of their research efforts, also including regulative measures, social acceptance as well as sustainable electricity and feedstock supply as enablers for a future carbon-neutral chemical industry.

The symposium will end with a panel discussion with Walter Leitner (RWTH Aachen University / MPI-CEC), Maximilian Fleischer (Siemens Energy), Sophie Wilmet (CEFIC), Carmine Marzano (European Commission) and Florian Ausfelder (DECHEMA) about the demands and next steps towards a circular European industry.

Join our final event – Sustainable Plastics Symposium. We look forward to welcoming you!

Please click here to view the programme and to register: https://dechema.converia.de/frontend/index.php?sub=459

Follow us on Twitter (@Carbon4PUR, @CO2EXIDEproject) and LinkedIn (Carbon4PUR project, CO2EXIDE project) to stay up to date.

Mots-clés

Carbon4PUR, CO2Exide, CCU, PtX, polyurethanes, ethylene oxide, coatings, insulation boards, ethylene, PUR, electrolysis, Renewable Carbon Strategy, Sustainable Plastics Strategy, Horizon Europe, Green Deal

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Projets connexes

PROJET

CO2EXIDE

CO2-based Electrosynthesis of ethylene oXIDE

27 Juillet 2022

PROJET

Carbon4PUR

Turning industrial waste gases (mixed CO/CO2 streams) into intermediates for polyurethane plastics for rigid foams/building insulation and coatings

28 Juin 2023

Articles connexes

ACTUALITÉS

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PROJECT OF THE MONTH

Project of the Month: Converting carbon dioxide into a raw material for increased sustainability and a more circular...

29 Janvier 2020

Dernière mise à jour: 1 Février 2021

Permalink: https://cordis.europa.eu/event/id/147762-sustainable-plastics-joining-ccu-circular-economy-and-power-to-x-for-better-polymers/fr