

Combining carboxylic acid production and fibre recovery as an innovative, cost effective and sustainable pre-treatment for heterogeneous biowaste



Project introduction

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This project has received funding from the Bio-based Industries Joint Undertaking (JU) under the European Union's Horizon 2020 research and innovation programme under grant agreement No 887115. The JU receives support from the European Union's Horizon 2020 research and



Bio-based Industries innovation programme and the Bio-based Industries Consortium.



CAFIPLA CONSORTIUM & OBJECTIVES





PROCESS SCHEME



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PROCESS SCHEME





"THE LOOP" – AT IDELUX SITE IN TENNEVILLE (BELGIUM)

Selected biowaste



Loading with biowaste
Transport to LOOP
Feeding LOOP chimney
Entering LOOP reactor
LOOP process
Transfer to screw press
Pressing
Decanting
Filtration





Project introduction - BMK Stakeholderdialog Kreislaufwirtschaft - Wien



- Biowaste as a resource
- Novel value chains within CAFIPLA
- Valuable end products
- Biorefinery concept





More details: D1.5 Final report on market assessment of CAP/FRP based bioproducts and CAFIPLA as technology in the bioeconomy expansion, January 2023 [Online]

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PRODUCTS & STAKEHOLDER PLATFORM

PRODUCTS (SELECTION)







Stakeholder platform ⇒ Register and build a profile: https://cafipla.dechema.de/

Further products: D1.5 Final report on market assessment of CAP/FRP based bioproducts and CAFIPLA as technology in the bioeconomy expansion, January 2023 [Online]



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CAFIPLA IMPLEMENTATION GUIDELINE

- > CAFIPLA technology requirements considering supply chain and technical feasibility
- ➤ Guideline for successful implementation of the CAFIPLA concept
- Chances and challenges towards implementation
- > Recommendations to accelerate biowaste utilisation and the circular transition

Bioeconomy expansion and rising demand for biobased raw materials	Biomass availability	CAFIPLA technology	Economic potential	Legislative frameworks	Unlocking biowaste as resource for bioeconomic value chains
	Assessment of underutilised organic waste streams suitable for CAFIPLA e.g. OMSW, green waste, by- products and residues	TRL5 pilot process integrating CAP and FRP to produce carboxylic acids and recovered fibres from organic waste	New biowaste-based value added product portfolio with high market potentials in diverse application fields	Biowaste legislations to facilitate its material use, strengthen market demand and provide low risk investment opportunities	
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OMSW = Organic municipal solid waste; CAP = Carboxylic acid platform; FRP = Fibre recovery platform



More details: D7.12 Guideline for successful integration of the technology platform, March 2023 [Online]



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Stakeholderdialog Kreislaufwirtschaft 2023

des Bundesministeriums für Klimaschutz, Umwelt, Energie,

Mobilität, Innovation und Technologie (BMK)

Thank you for your attention

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Consortium



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