





Bio-based Industries Research and Innovation action

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GRANT AGREEMENT NO: 887115

PROJECT ACRONYM:

CAFIPLA

PROJECT TITLE Combining carboxylic acid production and fibre recovery as an

innovative, cost effective and sustainable pre-treatment process for

heterogeneous bio-waste

PROJECT WEBSITE www.cafipla.eu

D7.4 Set-up of a regular biannual newsletter

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RESPONSIBLE FOR THIS DELIVERABLE DECHEMA

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DISCLAIMER

This deliverable has been prepared in the context of the project CAFIPLA receiving funding from the Bio Based Industries Joint Undertaking (JU) in accordance with the grant agreement No 887115. The JU receives support from the European Union's Horizon 2020 research and innovation programme and the Bio Based Industries Consortium).

It must be stressed that the views expressed in this CAFIPLA Deliverable D7.4 Set-up of a regular biannual newsletter are the sole responsibility of the authors and do not necessarily reflect the views of the Bio Based Industries Joint Undertaking (JU).

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Please refer to this deliverable as:

CAFIPLA – D7.4 (2020), Deliverable D7.4 – Set-up of a regular biannual newsletter. November 2020.



EXECUTIVE SUMMARY

The main aim of CAFIPLA is to develop an integrated pre-treatment process to convert heterogeneous organic materials to building blocks for the bio-based economy. To reach this aim, the CAFIPLA project focusses on an integrated biomass valorisation strategy that combines a carboxylic acid and a fibre recovery platform (CAP/FRP).

CAFIPLA is a market-oriented, R&D driven project strongly relying on an interdisciplinary approach, both within the consortium as through stakeholder involvement. Therefore, a strong dissemination, communication, and exploitation strategy is fundamental for the project's success and the exploitation of the project results beyond.

The current document presents the CAFIPLA newsletter and as part of the online presence supports the external project communication. The first version of the newsletter is ready and publicly available at https://archive.newsletter2go.com/?n2g=nsh4susz-52vrduqf-shg The newsletter will be send out twice per year with dissemination material, results, invitations until the completion of the project.



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ABBREVIATIONS

Table 1: CAFIPLA Abbreviations

DESCRIPTION
Fundación Tecnalia Research & Innovation
Deutsches Biomasseforschungszentrum Gemeinnutzige GmbH
Idelux Environnement
Biopract GmbH
Universität für Bodenkultur Wien
Fibres Recherche Developpement
Organic Waste Systems NV
Leibniz Institut für Agrartechnik und Bioökonomie e.V.
Universiteit Gent
Biotrend-Inovacao e Engenharia em Biotecnologia SA
Avecom
Vertech Group
DECHEMA Gesellschaft Für Chemische Technik und Biotechnologie e.V.
Anaerobic digestion
Carboxylic Acid Platform
Fibre Recovery Platform



1 INTRODUCTION - GOAL AND OBJECTIVE OF THIS DELIVERABLE

The deliverable 'D7.4 Set-up of a regular biannual newsletter' of CAFIPLA project is part of WP7 - Dissemination and Exploitation and refers to the construction and publishing of the project's newsletter itself for reaching stakeholders, raising awareness, and encouraging engagement with CAFIPLA.

The deliverable is part of the 'online' projects' dissemination activity and enlarge the visibility of CAFIPLA. The first newsletter was sent out on 27th November 2020 and is available online at the website. The next newsletter will be send in May 2021 and thereafter in six month intervals.

2 NEWSLETTER REGISTRATION AND DISTRIBUTION

The newsletter is set up and sent with Newsletter2Go and the registered addresses are managed. All interested parties can register for the newsletter via a double-opt-in procedure. An unsubscription is possible at any time.



Figure 1: CAFIPLA Newsletter subscription

The first newsletter is distributed through the project partners (e.g. their website, integration into their own newsletter), integrated into the CAFIPLA website, shared via social media and asked external institutions to share it with their community.

3 CONTENT OF THE NEWSLETTER

The CAFIPLA Newsletter is structured as follows

- 1. Objectives
- 2. The CAFIPLA concept
- 3. Methodology
- 4. Join our network!
- 5. Consortium

The web version can be downloaded online:

https://archive.newsletter2go.com/?n2g=nsh4susz-52vrduqf-shg





Figure 2: Screenshot CAFIPLA newsletter - header and welcome (i)



Figure 3: Screenshot CAFIPLA newsletter - objectives (ii)





2. The CAFIPLA concept

The overall concept is to optimize, integrate and demonstrate **two platform pre-treatment technologies (CAP and FRP) in a TRL 5 demonstration** unit using a mixture of regionally available, mixed organic waste streams. The main element of the CAFIPA pre-treatment scheme is the initial mechanical separation of fibrous biomass and soft biomass (easily biodegradable biomass). For each biomass type, specific value chains are put in place. The soft biomass is pre-treated in the CAP, while the fibrous biomass is further pre-treated in the FRP. This initial mechanical separation takes into account the specificities of each type of biomass, which automatically results in an adapted, more cost-effective and efficient valorisation of each fraction.

Pre-treatment CAP
The first pre-treatment concerns the CAP, focusing on the easily degradable organics part of blo-waste. CAPIPIA will focus on the conversion process towards a specific SCCA fermentation (including lactic acid), independent of the input composition. The CAP focusses on biochemical transformations via fermentation technology, to yield carboxylic acids in solution, which are an input to produce biochemicals, feed products or bioproducts.

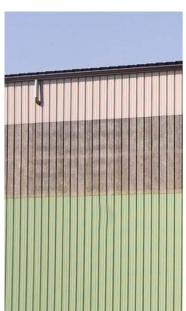
Pre-treatment FRP
The second pre-treatment, the FRP, focusses on mechanical
pre-treatment. The FRP valorises the fibrous residue from the
CAP, and will extract fibres of different quality for further







Figure 4: Screenshot CAFIPLA newsletter - the CAFIPLA concept (iii)



3. Methodology

The CAFIPLA project will establish a combined carboxylic acid and fibre platform as key initial steps of an integrated biorefinery.



Research and development
CAFIPA project key activities are the development of novel process
technologies and innovative approaches to radically after the pretreatment in blorefineries. The CAFIPA project combines physical,
chemical, enzymatic and bacterial processes, all at sort operating
conditions, to efficiently obtain carboxylic acids and fitnes. In its
innovation strategy, the CAFIPA projects puts the emphasis on process
control, both in the case of chemical and biological processes, to obtain
the desired product spectrum, product quality and product quantify
or a wide variety of biomass input streams. These pre-treatment activities
are directly linked to the subsequent conversion steps that result in the
production of biomaterials, biochemicals and feed additive



Integration

CAFIPLA's strength is the integration of technical and non-technical aspects already at this low-TRL, phase. CAFIPLA aims at developing novel process technologies in which control strategies that are immediately implemented. Furthermore, CAFIPLA takes into account supply-chain aspects, as this is regarded as a key to successful implementation of a novel biorefinery scheme. Furthermore, environmental and techno-economic aspects in the project execution are integrated and will detect the crucial legislative and social aspects to tackle. Integration in the context of CAFIPLA also refers to the integration of the CAFIPLA cascade with existing technologies such as compositing or AD, as well as seeking connection with origining R&D initiatives.







Demonstration
CAFIPA process development phase will result in demonstration
activities at TRI. 5. This demonstrator case study will be implemented at
the IDE site in Tenneville (Belgium). The demonstration will focus on
technical performance, combined with environmental and technocommic espects.

Figure 5: Screenshot CAFIPLA newsletter - methodology (iv)





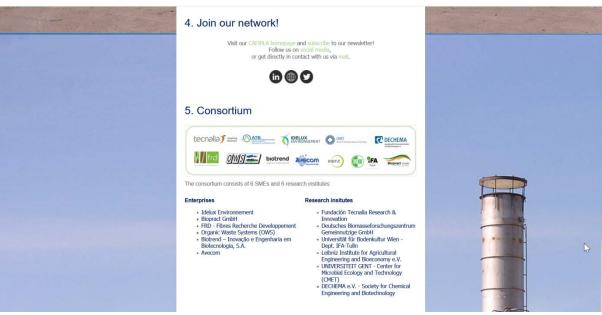


Figure 6: Screenshot CAFIPLA newsletter- joint our network and consortium (v)



Figure 7: Screenshot CAFIPLA newsletter - footer (v)

4 CONCLUSIONS

This document describes the first CAFIPLA newsletter as a part of CAFIPLAs online project presence. The next newsletter will be send out in May 2021 and thereafter in six month intervals.