

WHERE ARE WE AT?



Within the framework of the LIFE EBP project, a mobile prototype is being optimized to produce bioproducts from municipal biowastes to be employed in agriculture, plastics and detergents as

low emissions raw materials.

These bio-products are being validated in the agriculture field, obtaining very promising results regarding their properties.

THE NEXT STEPS

A new optimized prototype will be manufactured to produce bioproducts using different raw materials from different geographic regions to assess their influence on the process.

The produced bioproducts will be employed in the performance validation campaign

in the agriculture, plastics, and detergents fields.

The results gathered from the production and performance validation tests will be useful for the full process assessment to evaluate the benefits and impact of the project from the environmental, economic, and social points of view.



ENZO MONTONERI, THE TECHNICAL MANAGER

"Since 2004, at the University of Torino I focused R&D work on the valorization of municipal biowastes (MBW) as feedstock to produce biopolymers (BPs). I published more than 100 papers reporting BPs production processes and use as soil fertilizers and plant growth biostimulants, high performance biosurfactants, biopolymers for plastics manufacture.



Since 2017, I designed and directed two EU funded projects, LIFE CAB (2017-21) and LIFE EBP (2020-2024) currently running, demonstrating the economic sustainability and friendly environmental and social impact of BPs processes and performances in different EU real operational environments. These projects are important steps to build the first industrial MBW biorefinery."

SUMMER SCHOOLS AND OTHER INITIATIVES



As part of the LIFE EBP project, two major summer schools are being organized, targeting students and researchers. Next September, CUT & SBLA will organize a

summer school in the topic "Valorization of Bioorganic Residues Enabling the Transition to a Sustainable Bioeconomy"; the audience target would be final year Chemical Engineering Students and PhD students/researchers. The venue will be the Municipal University Library of CUT (picture) in Limassol.

Next December, AUA will organize a summer school on the topic "Waste biorefinery towards a sustainable circular bioeconomy"; the audience target will be undergraduates, postgraduates and PhD students/researchers from AUA and other institutions.

Furthermore, in the coming months, the project will be presented at trade fairs and congresses, and the main outcomes will be published in scientific articles by the consortium partners.

Stay updated, follow the project website: www.lifeebp.eu

THE PROJECT PARTNERS (5 OF)



Dipartimento
Scienze Giuridiche ed Economiche
UnitelmaSapienza
Università degli studi di Roma

Unitelma Sapienza University of Rome leads action B.4 (RCA and S-SLCA) of LIFE EBP, whose objectives find a match in Unitelma research on circular and bio-based economy carried out by the Bioeconomy in Transition Research Group.

BPs performance and widen their applicability.



ACEA is a multiutility company, which currently processes municipal biowaste in order to produce biogas. This product is purified, in order to obtain biomethane or used as energy source. ACEA also produces compost by mixing green residues and solid digestate.

Engineering spectrum. LIFE EBP: AUA evaluates BPs / IRs' fertilizer / plant bio-stimulant performance in the open field and performs process / products LCA/LCC assessment.



Università di Catania

The research activity of the group of Prof. Baglieri has always been linked to the objectives of the LIFE EBP project, as deals with studies about the reuse of biomasses from agro-industrial or natural residues, to improve soil fertility, antimicrobial assay and to extract biostimulant compounds.



UNIVERSITÀ DEGLI STUDI DI TORINO

The group main research interest is soil science and biowastes recycling and upgrading. UNITO main goal in LIFE EBP will be the upgrading of the hydrolysis/oxidation process to enhance



AUA's educational & research activities cover the whole AgriFood Science &

HYSYTECH

Hysytech is an engineering company focused on design, development and industrial implementation of new turn-key process technologies and equipment based on chemical and process engineering. Hysytech is the coordinating beneficiary of the LIFE EBP project and the developer of the multistep process included into the prototype for the production of the biopolymers.



HYSYTECH
FILLING THE GAP