



## A circular economy system for multi-source biomass conversion to added value products

# Deliverable E1.2: Photos from the installed notice boards (2) at the site of the demonstration system

Action E1: Project website, online social networking, notice boards and Layman's report

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LIFE Climate Action

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NATIONAL TECHNICAL UNIVERSITY OF ATHENS (NTUA)

#### BENEFICIARIES



MUNICIPALITY OF LAVREOTIKI



HELLENIC PETROLEUM S.A.



ENVIRECO CONSULTING S.A



NEVIS - NOVEL ENVIRONMENTAL SOLUTIONS S.A.



FEDERATION OF HELLENIC FOOD INDUSTRIES



UNIVERSITA DEGLI STUDI DI VERONA



SATISTICA LTD.

The project is co-funded by the EU through LIFE programme for the environment and climate action

#### **Background**

This report entitled: "E.1.2. Photos from the installed notice boards (2) at the site of the demonstration system", was produced under co-finance of the European financial instrument for the Environment (LIFE Programme) as the second Deliverable (E1.2) of Project "LIFE CIRCforBIO" (LIFE18 CCM/GR/001180) during the implementation of Activity E.1 on the "Project website, online social networking, notice boards and Layman's report".

#### **Acknowledgements**

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#### **Disclaimer**

The information included herein is legal and true to the best possible knowledge of the authors, as it is the product of the utilization and synthesis of the referenced sources, for which the authors cannot be held accountable.

Note:

**Deliverable E.1.2** encompasses issues related to the notice boards created.

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#### **Abbreviations and Acronyms**

LIFE	LIFE Programme
NTUA	National Technical University of Athens
ENVIRECO	Envireco Consulting S.A
HELPE	Hellenic Petroleum S.A.
LAVRIO	Municipality of LAVREOTIKI
NEVIS	NEVIS – NOVEL ENVIRONMENTAL SOLUTIONS S.A.
SATISTICA	Satistica Ltd
SEVT	Federation of Hellenic Food Industries
UNIVR	Universita degli Studi di Verona

#### **Executive Summary**

The present report was prepared in the framework of the co-financed European LIFE-Climate Management by NTUA. Responsible for its preparation is NEVIS S.A.

The Notice Boards were produced to contain all required information associated to the Project's identity. More specifically, the ACRONYM, the title, the Innovative Prototype Biorefinery System, the environmental challenges and the project objectives, the lead beneficiary as well as all beneficiaries' logos, names and countries, the source of funding and the related logo of LIFE Programme as well as the code of the project.

The Notice Boards were produced in English and Greek.

#### 1. Introduction

The Notice Board designed includes all the info about the project. Namely, it includes the ACRONYM, the title, a diagram depicting the Innovative Prototype Biorefinery System and the flow of the process, the environmental challenges and the project objectives, the lead beneficiary as well as all beneficiaries' logos, names and countries, the source of funding and the related logo of LIFE Programme as well as the code of the project. It has been designed in a simple and clear way to capture the viewers' attention while the use of the particular colours, same as used for the logo, link it in an indirect way with the project theme.

Figure 1: The CIRCforBIO Project Logo



The technical content, info and original diagram of the Innovative Prototype System provided by NTUA was elaborated in collaboration with NEVIS to the outcome shown below in Figure 2.

The technical info covers in a condensed way all the necessary data to inform viewers about the technical aspects of the project, the circularity aspects and the derived products as well their possible uses. Namely, a diagram was outlined and in cooperation with NEVIS it was produced to show in an easy way the biomass feedstock, the flow of the process, the Innovative Prototype Circular Economy System designed, to be constructed and operate in the framework of the project implementation, the bio-products produced as well as their potential uses.



Figure 2: The CIRCforBIO Circular Economy System

Moreover, a clear section refers to the aim of the project as well as to the origin of the biomass and its transformation process as depicted herebelow in Figure 3.

Figure 3: The project and the biomass in the CIRCforBIO project

#### The project

The overall aim of LIFE CIRCforBIO project is to achieve high greenhouse gas emission savings from the substitution of fossil fuels with advanced **biofuels**, that is fuels produced from **biomass** (any directly or indirectly plant-originated organic matter).

### The biomass in LIFE CIRCforBIO project

originates from household, catering and small businesses (coffee shops, restaurants and bakeries) biowaste, industrial organic waste (brewery, potato-chips industry and juice industry) and from agricultural residues.

is transformed through bio-conversion processes into a series of value-added products, such as used oil for biodiesel production, bioethanol, biogas and fertilizer. This is achieved through the design, implementation and demonstration of an innovative biorefinery system.

The project beneficiaries are shown in an organized way to link their logos, their names as well as their country of establishment.

Figure 4: Beneficiaries-names, logos, countries

#### Coordinating Beneficiary:



#### **Associated Beneficiaries:**



#### 2. Notice Boards Produced

The Notice Boards produced are in total two (1 in English and 1 in Greek language), both of which are placed at the site of the demonstration system and are printed in metallic frame for endurance purposes, as they are immediately exposed to weather conditions.

Σύστημα κυκλικής οικονομίας για τη μετατροπή βιομάζας πολλαπλών **CIRCforBIO** πηγών σε προϊόντα προστιθέμενης αξίας LIFE18 CCM/GR/001180 Παρουσίαση του έργου Συντονιστής εταίρος: BIO-NPOÏONTA Βασικός στόχος του έργου είναι η μείωση των OIKONOMIA Βασικός στοχός του εργού είναι η μείωση των εκπομπών αρίου θερμοκητίου (αέρια που ευθύνονται για την κλιματική αλλαγή), κυρίως μέσω της αντικατάστασης ορυκτών καυσίμων από προηγμένο βίοκαύσημα, δηλαδή καύσημα που προέρχονται από βιομάζα (οποιοδήποτε οργανική όλη προέρχεται άμεσα ή έμμεσα από τον φυτικό κόσμο). GR Εταίροι: 0 GR ENVIRECO A.E. GR EAAHNIKA DETPEAAIA A.E. Η βιομάζα στο έργο LIFE CIRCforBIO προέρχεται από διαχωρισμένα απόβλητα τροφίμων (νοικοκυριά), απόβλητα επιχειρή-σεων (καφετέριες, εσπατόρια και φούρνους) και γεωργικά υπολείμματα του Δήμου Λουρε-ωπικής καθώς και από βιομηχανίες τροφίμων (ζυθοποία, πατατοβιομηχανία και βιομηχανία νοιμών NEVIS χυμών). SATISTICA UK μετατρέπεται μέσω βιολογικών διεργασιών μετατρέπεται μεσω βιολογικων οιεργασιων σε μια σειρά προστιθέμενης αξίσι, προίστων όπως χρησιμοποιημένα έλαια για παραγωγή βιοντίζελ, βιοαιθανόλη, βιοαέριο και λίπασμα. Αυτό επιτυχάνεται με το σχεδισσμό, την ανάπτυξη και την επιδεικτική λειτουργία πρότυπου συστήματος βιοδιόλισης. Σ::BT Διάρκεια υλοποίησης του έργου: 01/10/2019 - 31/05/2023 / Συνολικός Προϋπολογισμός Έργου: **2,636,693 €** / Προϋπολογισμός Χρηματοδοτούμενος από την ΕΕ: **1,450,181 €** (55%)

Figure 5: Notice Board in Greek



Figure 6: Notice Board in English

#### 3. Notice Boards installed at the site of the demonstration system



Figure 7: Installed Notice Boards at the site



