



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

Deliverable D.1.2: Second report on the monitoring and evaluation of the project performance

Action D.1: Monitoring and evaluation of the project impact

October 2020

Coordinating Beneficiary:



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.

LIFE Climate Action



LIFE18 CCM/GR/001180

Background

This report entitled: "*Second report on the monitoring and evaluation of the project performance indicators*", was produced under co-finance of the European financial instrument for the Environment (LIFE Programme) as Deliverable D.1.2. of Action D.1 of Project "LIFE CIRCforBIO" (LIFE18 CCM/GR/001180). This report aims at the monitoring of the project performance indicators, namely the Key Project-level Indicators (KPIs) and the Project Progress Indicators (PPIs), that will allow for their evaluation against the set target values, so as to determine its progress and to identify and promptly address any obstacles and difficulties occurring during its implementation.

Acknowledgements

LIFE CIRCforBIO team would like to acknowledge the European financial instrument for the Environment (LIFE Programme) for the financial support.

Table of Contents

List of Tables.....	4
List of Images.....	4
Abbreviations and Acronyms	5
Executive Summary	6
1. Introduction.....	9
2. Methodology	9
3. Key Project-level Indicators Monitoring and Evaluation.....	9
3.1 Economic Performance, Market Uptake and Replication KPI' s.....	9
3.2 Communication, dissemination and awareness raising KPI' s.....	10
3.2.1 Website, Facebook and Twitter friends/followers.....	10
3.2.2 Behavioral change	11
3.2.3 Awareness raising.....	12
3.2.4 Link to other websites	13
4. Project Progress Indicators Monitoring and Evaluation.....	14
4.1 Preparatory Actions (A1) Progress Indicators	15
4.2 Implementation Actions Progress Indicators	15
4.3 Monitoring of the impact of the project Actions (D1) Progress Indicators.....	18
4.4 Communication and Dissemination Actions (E1 to E4) Progress Indicators	19
4.5 Project Management Actions Progress Indicators	30
Conclusions.....	36

List of Tables

Table 1: Monitoring of the "Jobs Created" indicator	10
Table 2: Monitoring of Website, Facebook and Twitter indicators	11
Table 3: Monitoring of Behavioral change indicator	12
Table 4: Monitoring of Awareness raising indicator	12
Table 5: Websites with link to the Project' s website	13
Table 6: Monitoring of Link to other websites indicator.....	14
Table 7: Monitoring of PPIs related to the Preparatory Action (A1).....	15
Table 8: Monitoring of PPIs related to the Implementation Actions C1, C2	16
Table 9: Monitoring of PPIs related to the Implementation Action C3.....	16
Table 10: Monitoring of PPIs related to the Implementation Action C4.....	17
Table 11: Monitoring of PPIs related to the Implementation Action (C5)	18
Table 12: Monitoring of PPIs related to the Monitoring of the impact of the project Action (D1)	18
Table 13: Monitoring of PPIs related to the Communication and Dissemination Actions (E1 to E4).....	27
Table 14: Total Deliverables under submission.....	31
Table 15: Progress Status of Progress Indicators	32
Table 16: Total Milestones under submission.....	33
Table 17: Monitoring of PPIs related to the Project Management Action (F1)	35

List of Images

Image 1: Ongoing Project' s Actions.....	14
Image 2: Project' s 2 nd set of Newsletter	21
Image 3: Participation to the 3 rd ADAPTtoCLIMATE Conference	23
Image 4: Participation at the 8 th INTERNATIONAL CONFERENCE ON SUSTAINABLE SOLID WASTE MANAGEMENT.....	24

Abbreviations and Acronyms

NTUA	National Technical University of Athens
LAVRIO	Municipality of Lavreotiki
SEVT	Federation of Hellenic Food Industries
UNIVR	Università degli studi di Verona
HELPE	Hellenic Petroleum S.A.
SATISTICA	Satistica LTD.
NEVIS	Novel Environmental Solutions S.A.
ENVIRECO	Envireco Consulting S.A.
EASME	Executive Agency for Small and Medium Sized Enterprises
KPIs	Key Project-level Indicators
PPIs	Project Progress Indicators

Executive Summary

The present technical report was prepared in the framework of the co-financed EC LIFE Programme for the Environment and Climate Change, in the framework of Action D1 "Monitoring and evaluation of the project impact" of the project with the title "A CIRCular economy system for multi-source BIOMass conversion to added value products" and the project acronym LIFE CIRCforBIO (LIFE18 CCM/GR/001180). Responsible for its preparation is the National Technical University of Athens (NTUA), in collaboration with all the project beneficiaries.

The project aims at the achievement of high GHG emission savings from the substitution of fossil fuels with advanced biofuels and at the promotion of the realization of the circular economy concept for biomass. The LIFE CIRCforBIO project is engaged to achieve the aforementioned two main objectives through two main suggested methods:

- a) By the development and demonstration of an innovative biorefinery concept for the conversion of waste biomass (biowaste, industrial food waste, agricultural residues) to added value products such as bioethanol, used oil (raw material for biodiesel), biogas and AD digestate and
- b) By the creation of an interactive platform for facilitating the realization of the circular economy concept for 2nd generation biomass in Greece.

The aim of this Deliverable is the monitoring of the project performance indicators, namely the KPIs and the Project Progress Indicators, based on the Monitoring protocol established (Del. D.1.1.+), as well as the evaluation of the achieved implementation progress in this second reporting period (1/10/2020-30/9/2021). The quantification of the monitoring indicators and their continuous monitoring during project implementation will allow for the evaluation of the project results so as to determine its progress and to identify and promptly address any obstacles and difficulties occurring during its implementation.

This technical report starts with the monitoring of KPIs, except from the environmental ones, as they are inextricably linked to the initiation of the biorefinery's system operation, which is expected around end of March, beginning of April 2022 (approximate estimation presented at the Second Monitoring Visit), due to the delay on the required tendering procedures for the installation of the biorefinery system. For all indicators, their results so far are recorded, and evaluated, in comparison with their target values, while taking into account the current implementation stage of the project. Moreover, and as an additional means of monitoring and

evaluating the achieved progress, since the target values refer to the whole duration of the project, the percentage of the target value achieved for all KPIs is presented. The aforementioned percentage is presented for both monitoring periods, for a comparative evaluation of the relevant progress between the two monitoring periods.

Following, the monitoring of the PPIs takes place; most Actions of the project have initiated already though the exact timeline has been modified at the Second Monitoring Visit, due to the delay on the required tendering procedures for the installation of the biorefinery system.

Moreover, as an additional means of monitoring and evaluating the achieved progress for the PPIs that their target value refers either to the whole project duration or a broader time frame than the second reporting period, the percentage of the target value achieved is also presented. The aforementioned percentage is presented for both monitoring periods, for a comparative evaluation of the relevant progress between the two monitoring periods.

For all indicators, KPIs and PPIs, when feasible, verification means of the achieved progress are presented.

KPIs monitored within this second reporting period demonstrate high current values against the target ones for the whole project duration and higher than the first monitoring period. Only the ones related to the website and awareness raising still demonstrate lower values, in comparison with the currently achieved values of the rest. It is worth mentioning though that the biggest increase regards the website traffic and the twitter platform traffic, therefore the suggestion for the reinforcement of these two indicators resulted by the *First report on the monitoring and evaluation of the project performance indicators* was realized. The website and awareness raising indicators are expected to perform way better, upon the installation and operation of the biorefinery system.

Most PPIs falling within this second reporting period have not been achieved. The aforementioned PPIs are the PPIs that regard Actions whose duration doesn't exceed this reporting period time or have a different reference time (e.g. monthly), taking into account the modified end dates of the respective Actions, as set at the Second Monitoring Visit. More specifically, these are seven in total indicators, out of each three are achieved. The indicators not achieved are related to the website traffic and to the completion of CIRCforBIO platform (Action C5). Therefore, more attention should be provided towards the reinforcement of the website traffic and the finalization and operation of the CIRCforBIO platform. The rest of the PPIs, that have a broader duration and are monitored and evaluated in this present report,

along with the KPIs, are being evaluated, on the basis of the percentage of the target value achieved, since there are no intermediate targets set; their final evaluation will take place against their target values at the end of each Action.