

Advanced Sustainable BIOfuels for Aviation

Deliverable D6.9: Final Project Management Plan

Consortium:

Acronym	Legal entity	Role
RE-CORD	CONSORZIO PER LA RICERCA E LA DIMOSTRAZIONE SULLE ENERGIE RINNOVABILI	CO
SKYNRG	SKYENERGY BV	BEN
ENI	ENI SPA (entered 25/06/2021)	BEN
CENER	FUNDACION CENER-CIEMAT	BEN
ETA	ETA – Energia, Trasporti, Agricoltura Srl	BEN
CCE	CAMELINA COMPANY ESPANA S.L.	BEN
JRC	JOINT RESEARCH CENTRE – EUROPEAN COMMISSION	BEN

CO...Coordinator, BEN...Beneficiary

'The sole responsibility for the content of this report lies with the authors. It does not necessarily reflect the opinion of the European Union. The European Commission is not responsible for any use that may be made of the information contained therein.'



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 789562.

General Information

Call identifier: H2020-LCE-2017-RES-IA
 GA Number: 789562
 Topic: LCE-20-2016-2017
 Start date of project: 01/05/2018
 Duration: 62 Months
 Work Package: WP 6 - Management, Dissemination, Exploitation & IP
 Type: Deliverable
 Number: D6.9
 Title: Final Project Management Plan
 Due Date: 31/03/2021 (Original) – 28/02/2022 (After Amendment) – 17/04/2023
 (After Rejection Letter from CINEA dated 13/03/2023)
 Submission date: 02/05/2023
 Reference Period: 31/10/2019 – 28/02/2022

 Prepared by: RE-CORD (Lead), all partners
 Responsible Person: Tommaso Barsali
 Dissemination Level: Public

INTERNAL MONITORING & REVISION TABLE

REV.	DATE	DESCRIPTION	PAGES	CHECKED	APPROVED
1	29-08-2019	Original	n.a.	REC	REC
1.1	15-10-2019	Input from partners	13	REC, ALL	REC
2	02/05/2023	After Rejection Letter from CINEA	13	REC	REC

Document Type

PRO	Technical/economic progress report (internal work package reports indicating work status)	
DEL	Technical reports identified as deliverables in the Description of Work	x
MoM	Minutes of Meeting	
MAN	Procedures and user manuals	
WOR	Working document, issued as preparatory documents to a Technical report	
INF	Information and Notes	

Dissemination Level

PU	Public	x
PP	Restricted to other programme participants (including the Commission Services)	
RE	Restricted to a group specified by the consortium (including the Commission Services)	
CO	Confidential, only for members of the consortium (including the Commission Services)	
CON	Confidential, only for members of the Consortium	

1 Summary

The **Project Management Plan** constitutes the workplan for the technical and scientific activities of the BIO4A project from M36 to M62.

It is an update of the D6.6 Mid-Term Project Management Plan and a revision of the previous D6.9 version dated 08/03/2021, after rejection due to the Grant Agreement Amendment AMD-789562-13 and subsequently, after rejection letter from CINEA dated 13/03/2023.

The PMP is intended as a tool to facilitate collaboration between partners, management for WP Leaders and Coordinator and follow-up for the Project Officer.

The amendment procedure has included the termination of TRC and TRF, which ceased all activity in the BiO4A project as of 30/04/2021.

ENI Spa has entered the project as industrial partner in charge of WP1 and HEFA production from lipid waste. ENI began its activities on June 25th 2021.

The project has been extended to Month M62 and new deadlines have been set for Milestones and Deliverables. In particular, Milestone MS5 has been moved to month M52.

Direct negotiation on downstream logistics have been undertaken between the fuel producer (ENI) and the off-taker (KLM/Airfrance).

The Project is currently on time, all delayed deliverables and milestones are projected to be completed before the end of the project, by 30/06/2023.

2 Introduction

The Final Project Management Plan constitutes the workplan for the technical and scientific activities of the BIO4A project.

It is intended as a tool to facilitate collaboration between partners, management for WP Leaders and Coordinator and follow-up for the Project Officer.

It focuses on the specifics Tasks, Deliverables and Milestones due by M62.

The main activities and deadlines during the current period are:

WP1. Production of HEFA has been secured, in quantity and specs, and delivered to the blending site in Amsterdam. Deliverable 1.4 on Process Operation Optimization is delayed, however ENI is working on the final draft. Submission is foreseen in May 2023.

In **WP2**, the additional field trials performed in Italy are terminated, data is under evaluation. The field trials in Spain are continuing, the final harvest is foreseen in June 2023. The Lysimeters trials are undergoing, the climatic chamber prototype is in operation. No deliverables are pending. A scientific open-access publication is finalized, ready for submission to a scientific journal.

In **WP3**, the Traceability Documentation deliverable D3.2 is pending. Submission is foreseen in May 2023, after blending operations and delivery to airport are finished. (See WP5).

WP4 sees deliverable D4.3, D4.4. and D4.6 pending. Their submission is however advanced: in the case of D4.3, all inputs are confirmed, LCA is under elaboration. D4.6 has to confirm some inputs on technological and economic data. A scientific open-access publication has been submitted by JRC on the Environmental indicators.

WP5 has no pending deliverables. However, downstream activities are undergoing while schedule had to be rearranged. Direct negotiations for logistics have been concluded between the fuel producer (ENI) and the off-taker (KLM).

All **WP6** deliverables are on time. D 6.9 has been rejected and re-submitted, waiting for approval.

Input has been provided by all BIO4A partners for the drafting of the Management Plan at chapter 3.

Task Leaders and WP Leaders concerned, provided replies to a list of requests on each respective Task, Deliverable and Milestone.

3 Management Plan

Task Leaders, on request of the Coordinator, have replied to the questions below, for each respective Task assigned.

- 1) Which type of input is needed? (ex. preliminary data, technical specification, specific material)
- 2) From which partner (or in alternative from which task) is the input needed?
- 3) At what time is it needed?
- 4) Is a revision session foreseen? When? (ex. telco, field visit)
- 5) Possible risks foreseen for the task
- 6) When do you plan to make an internal progress update (for other partners?).

Here below the list of the relevant tasks that either begin, continue, end or produce a deliverable/milestone within the period M18-M36, assessed following the method above.

BIO4A	D6.9 Final Project Management Plan
--------------	---

WP No	Del Rel. No	Del No	Title	Description	Lead Beneficiary	Original Est. Del. Date (annex I)	Missing data?
WP1	D1.4	D4	Process operation optimization (Task 1.5)	Report describing the major activities performed for the optimization of the process at the plant, including an analysis of an integrated distillation step.	ENI	31/10/2022	None
WP2	D2.10	D45	Results on Lysimeters Trials (Task 2.1)	The trials performed in lysimeters in controlled conditions, to simulate the real conditions of the field trials, will produce additional quantitative results concerning the capacity of biochar to retain water, influence humidity, emissions and the N content of water leaving the system, compared to the business-as-usual conditions.	RE-CORD	30/06/2023	Data retrieval ongoing
WP2	D2.11	D46	Results on optimal Biochar+Compost agronomic protocol trial at field scale application (Task 2.1) (M62)	Results on the field trials operated in an additional location, to corroborate the implementation of biochar addition with conventional machinery as well as to confirm the positive biochar effects observed during the microplot trials in a different location.	RE-CORD	30/06/2023	Data retrieval and elaboration ongoing. Extreme drought in Spain in 2023 may affect data.
WP2	D2.5	D9	Results on Field trials of camelina varieties cultivated with optimized biochar+Compost agronomic protocol in marginal land with high risk of desertification (Task 2.1)	Report on the final agricultural trial in Spain performed for the selection of the high yielding Camelina variety.	CCE	31/05/2023	End of experiment in June 2023. Extreme drought in Spain in 2023 may affect data
WP3	D3.2	D15	Traceability documentation (Task 3.2)	Details on traceability of the fuel (volume, quality, sustainability) and bioticket registration.	SKYNRG	31/10/2022	Feedstock, production and shipping docs secured. Blending docs and certificates expected mid-May 2023.

BIO4A	D6.9 Final Project Management Plan
--------------	---

WP No	Del Rel. No	Del No	Title	Description	Lead Beneficiary	Original Est. Del. Date (annex I)	Missing data?
WP4	D4.3	D20	Final environmental sustainability assessment (Task 4.3)	This deliverable will be the final report in task 4.3. It will compile comprehensive information on “BIO4A” environmental assessments, including all information collected in sustainability evaluations, final results, discussion, and sensitivity analysis to identify key points.	CENER	31/10/2022	BFDs retrieved, LCA simulation ongoing, expected end of May 2023
WP4	D4.5	D22	Final socio-economic sustainability assessment (Task 4.4)	This deliverable will be the final report in task 4.5. It will compile comprehensive information on “Bio4A” socio-economic assessments, including criteria identification and evaluation methodologies, all information collected in this work, final results and discussion.	CENER	31/12/2022	Submitted
WP4	D4.6	D23	KPIs monitoring report (Task 4.1)	Report on the performance of the bio kerosene production chain, by measurable KPIs values divided into the three main groups: technological, socio-economic and environmental.	RE-CORD	31/10/2022	70% KPIs measured
WP4	D4.7	D24	Report on the assessment of socio-economic sustainability indicators for advanced biojet fuel value chains on marginal lands in the Mediterranean (Task 4.4)	Report on the assessment of socio-economic sustainability indicators for advanced biojet fuel value chains on marginal lands in the Mediterranean.	JRC	30/04/2023	Final elaboration ongoing
WP6	D6.10	D39	Final Data Management Plan (Task 6.2)	It contains the data managed in the whole project, explains the procedures applied and informs about any requirement made by the EC and how it has been solved.	ETA	30/04/2023	Final elaboration ongoing

BIO4A	D6.9 Final Project Management Plan
--------------	---

WP No	Del Rel. No	Del No	Title	Description	Lead Beneficiary	Original Est. Del. Date (annex I)	Missing data?
WP6	D6.11	D40	Final PEDR & related annexes (Task 6.3)	This document summarizes the dissemination, communication and exploitation work done during the project lifetime,, with an overall assessment of the measures and results reached by the project in support to BIO4A impact. It also provide a list of activities for its dissemination beyond the end of BIO4A end, as well as a follow up strategy (at exploitation level) which can be reasonably foreseen and applied for guaranteeing its sustainability in the future.	ETA	30/04/2023	Final elaboration ongoing

4 Conclusions

All activities and Tasks foreseen will be completed by M62, as some delays are currently being redressed, thanks to mitigation measures. In particular, HEFA has been delivered on-spec, following ASTM standards, to blending site in Amsterdam.
All risks will be monitored and reported to CINEA.