

# - IDEALFUEL -

Lignin as a feedstock for renewable marine fuels

**GRANT AGREEMENT No. 883753**

HORIZON 2020 PROGRAMME - TOPIC LC-SC3-RES-23-2019

“Development of next generation biofuel and alternative renewable fuel technologies for aviation and shipping”



## **Deliverable Report**

**D1.2 – NEC – Requirement No.2**



*This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 883753*

<b>Deliverable No.</b>	D1.2	
<b>Related WP</b>	WP1	
<b>Deliverable Title</b>	NEC – Requirement No.2	
<b>Deliverable Date</b>	30-10-2020	
<b>Deliverable Type</b>	REPORT	
<b>Dissemination level</b>	Confidential – consortium members only (CO)	
<b>Written By</b>	Roy Hermanns (TU/e)	14-10-2020
<b>Checked by</b>	ALL	27-10-2020
<b>Reviewed by</b>	ALL	27-10-2020
<b>Approved by</b>	Project Coordinator	27-10-2020
<b>Status</b>	Final	27-10-2020

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## **Publishable summary**

The EU H2020 project IDEALFUEL aims to develop an efficient and low-cost chemical pathway to convert lignocellulosic biomass into a Biogenic Heavy Fuel Oil (Bio-HFO) with ultra-low sulphur levels that can be used as drop-in fuel in the existing maritime fleet. Within this project, fuels or fuel-related components will be shipped between the partners. Since two partners (WinGD and BLOOM) are located in non-EU countries, Switzerland, several aspects need to be covered. This is documented within this deliverable, D1.2 concerning the NEC – Requirement No.2 covering the type of materials that IDEALFUEL will transport between the partners within the IDEALFUEL project and its partner deliverable D1.1 showing that the partners obtain and keep copies on file of import/export authorisations as required by national and EU legislation. There are no deviations from the description of this deliverable as given in Annex 1 of the Grant Agreement.



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**Abbreviations**

Symbol / short name	
Bio-HFO	Biogenic Heavy Fuel Oil

## 1 Introduction

The EU H2020 IDEALFUEL consortium is spread all over Europe and during the runtime of the IDEALFUEL project, project-related items will be transported between the partners. Since two project partners, namely WinGD and BLOOM, are located in Switzerland these items / products – mainly fuels – will be shipped between the EU and a non-EU country and some aspects need to be covered according to the ethics self-assessment checklist<sup>1</sup>. This mainly affects the technical partners:

- the Netherlands: TU/e, VERT, GOOD and VARO;
- Germany: OWI and T4F;
- Spain: CSIC;
- Switzerland: WinGD and BLOOM.

These aspects are covered in two deliverables. This deliverable, D1.2, describes the kind of details that will be documented for the - project related - materials that will be transported/shipped between the partners. The second deliverable, D1.1, shows that the partners have confirmed to the coordinator that they will obtain and keep copies on file of import/export authorizations as required by national and EU legislation.

## 2 Approach

### 2.1 Documentation of the material exchange

The IDEALFUEL research involves partners from non-EU countries. Specifically, exchange of material between project partners BLOOM and WinGD (both located in Switzerland) and the other project partners require the import and export regulation to non-EU countries to be considered (see also deliverable D1.1). An important aspect that needs to be documented is the type of material that is being exchanged. Within the IDEALFUEL project a spreadsheet will be used to document and log this. Table 2.1 gives an overview of what is being documented in this spreadsheet.

Table 2.1: Material exchange log.

	Name	Description
1	Requesting party	Short name of requesting party
2	Providing party	Short name of providing party
3	Related WP	Related work package number and if possible related task
4a	Material	Type/name of material.
4b	Batch number	If available list the batch number of the material
4c	Manuals / datasheets	All relevant safety manuals and/or datasheets have been stored on the IDEALFUEL internal exchange platform METT. List the related documents here.
4d	Quantity	Indicate the quantity of material (e.g. volume, mass, number of items).
5	Date of request	Date of request by requesting organisation
6	Date of supply sent	Date of supply sent by providing organisation
7	Receiving date	Date that the requesting party receives the material

The project management tool METT will be used as platform for the consortium partners to exchange and archive these material exchange documents.

<sup>1</sup>[https://ec.europa.eu/research/participants/data/ref/h2020/grants\\_manual/hi/ethics/h2020\\_hi\\_ethics-self-assess\\_en.pdf](https://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/ethics/h2020_hi_ethics-self-assess_en.pdf)

## 2.2 Procedure to exchange project-related material

The following procedure for exchange of material used for the IDEALFUEL project will be followed:

### Procedure concerning the exchange of project-related material between the IDEALFUEL partners:

1. All partners will specify exactly what material they will be exchanging during the IDEALFUEL project and inform the management team (using the log spreadsheet).
2. Partners wishing to exchange material with WinGD or BLOOM must contact their own legal and security officers, with the aim to get information on national legislation concerning export to non-EU countries.
3. All necessary documents (security certificates, transportation certificates, safety data sheets, etc.) will be acquired by the partners wishing to exchange material.
4. All these documents will be sent to the management team and stored on METT. The management team will provide them upon request to INEA.

## 3 Discussion and Conclusions

This deliverable shows what will be documented by IDEALFUEL related to the exchange of materials. On the project internal exchange platform (METT) the information is stored in excel file. Additional project relevant information, like datasheets and safety reports, of materials that will be transported is also stored on this platform. It is important to mention that the partner deliverable D1.1 shows the confirmation of the partners that they will keep copies on file of import/export authorisations as required by national and EU legislation. There are no deviations from the description of this deliverable as given in Annex 1 of the Grant Agreement.

## **Risk Register**

No risks foreseen related to this deliverable.

## Acknowledgement

The author(s) would like to thank the partners in the project for their valuable comments on previous drafts and for performing the review.

### Project partners:

#	Partner short name	Partner Full Name
1	TUE	Technische Universiteit Eindhoven
2	VERT	Vertoro BV
3	T4F	Tec4Fuels
4	BLOOM	Bloom Biorenewables Ltd
5	UNR	Uniresearch B.V.
6	WinGD	Winterthur Gas & Diesel AG
7		(Formerly SeaNRG is now GOODFUELS #12)
8	TKMS	Thyssenkrupp Marine Systems GMBH
9	OWI	OWI – Science for Fuels gGmbH
10	CSIC	Agencia Estatal Consejo Superior De Investigaciones Cientificas
11	VARO	Varo Energy Netherlands BV
12	GOOD	GoodFuels B.V.



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## Appendix A – Quality Assurance Review Form

The following questions should be answered by all reviewers (WP Leader, reviewer, Project Coordinator) as part of the Quality Assurance procedure. Questions answered with NO should be motivated. The deliverable author will update the draft based on the comments. When all reviewers have answered all questions with YES, only then can the Deliverable be submitted to the EC.

NOTE: This Quality Assurance form will be removed from Deliverables with dissemination level “Public” before publication.

Question	WP Leader	Reviewer	Project Coordinator
	Roy Hermanns (TUE)	Eva Bogelund (UNR)	Roy Hermanns (TUE)
<b>1. Do you accept this Deliverable as it is?</b>	Yes	Yes	Yes
<b>2. Is the Deliverable complete?</b> - All required chapters? - Use of relevant templates?	Yes	Yes	Yes
<b>3. Does the Deliverable correspond to the DoA?</b> - All relevant actions performed and reported?	Yes	Yes	Yes
<b>4. Is the Deliverable in line with the IDEALFUEL objectives?</b> - WP objectives - Task Objectives	Yes	Yes	Yes
<b>5. Is the technical quality sufficient?</b> - Inputs and assumptions correct/clear? - Data, calculations, and motivations correct/clear? - Outputs and conclusions correct/clear?	Yes	Yes	Yes
<b>6. Is created and potential IP identified and are protection measures in place?</b>	Yes	Yes	Yes
<b>7. Is the Risk Procedure followed and reported?</b>	Yes	Yes	Yes
<b>8. Is the reporting quality sufficient?</b> - Clear language - Clear argumentation - Consistency - Structure	Yes	Yes	Yes