

4REFINERY

Upgraded scenarios FOR integration of biofuel value chains into REFINERY processes

GA No. 727531

Deliverable Report



Deliverable ID	D6.2		
Deliverable name	Communication marketing material		
Lead beneficiary	SINTEF		
Contributors	CNRS, SINTEF		
Due date Annex I	31.08.2017		
Date of final version	31.08.2017		
Dissemination level	Public		Dal
Document approval	Duncan Akporiaye	26.02.2017	9
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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 727531.

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Description of the deliverable content and purpose

The present deliverable describes the materials in 4REFINERY that will be used for communication and marketing of the project purpose and results to the public.



Table of Contents

1 4REFINERY leaflet	4
2 Template for 4REFINERY presentations	5
3 Acknowledgement of EU funding	6



1 4REFINERY leaflet

A leaflet has been made giving a brief description of the 4REFINERY project. The leaflet contains the official web address for the project along with a flash code that re-directs one to the web page. Instead of continuously updating the leaflet, the web page will instead contain updated information about the project progress and results. It also gives information about all dissemination related to 4REFINERY.

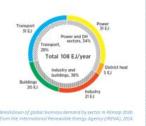
An image of the leaflet is shown in Figure 1.



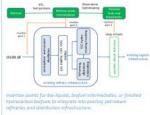
4REFINERY Project Overview

Biofuels can provide 28% of total transport fuel by 2050, is can provide 28% of total transport the by 20b0, ing reductions of more than 2 gigatornes of CO₂ ons per year when produced sustainably. The sing demand for biofuels implies the need for ormation of diverse bio-resources into liquid fuels, poses challenges in process development to improve sion efficiency, while decreasing the production cost.

neet the timescale and quantity needed v tiveness, biomass implementation should be d integration into existing refineries ture rather than requiring investment in new li



The complexity of conversion of biomass compared to fossi oils (due to the presence of heteroatoms mainly as oxygen, as well as geographic diversity and availability) requires a primary conversion – liquefaction – step to allow easier and cheaper processing for transport, as well as for introducing upgrading in such existing refineries. The options today are nal liquefaction; both fast pyrolysis facing a co and



As bio-feedstock specifications (ash, water, composition) will vary depending on the location, new methodologies are needed, based on an understanding of the relationship between feedstock specification and the optimal process parameters for best product quality.



4REFINERY Objectives

48EFINERY will develop and demonstrate the production of next generation biofuels from more efficient primary liquidaction routes integrated with uggraded downstream (hydro)efining processes to achieve overall actions yields of > 45%. The consortium will aim for successful deployment into existing refineries, including delivering a comprehensive toolbox for interfacing with existing refinery models.

The main objectives of 4REFINERY are

- To develop new biofuels production technology while at the same time increase understanding and control of the entire value chain To scale up testing procedures and define scenarios for the best further implementation in existing contents.
- To develop solutions to answer key societal & environmental challenges

Figure 1: Image of 4REFINERY leaflet.



The leaflet is available digitally on the 4REFINERY eroom. This makes the leaflet easily available for all the consortium members so they can print out their own copies. The purpose of the leaflet is to use it as a leave-behind at conferences, workshops and meetings to increase the awareness of 4REFINERY.

2 Template for 4REFINERY presentations

A power point template has been made for the 4REFINERY project to be used when giving public presentations. Figure 2 and 3 shows the front and last page of the presentation template, respectively.



Figure 2: 4REFINERY presentation template. Front page.



Figure 3: 4REFINERY presentation template. Last page.



3 Acknowledgement of EU funding

The acknowledgement of EU funding will be included in all public communication activities. This will be displayed by the sentence: "*This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 727531*" along with the EU emblem.