

**Proposal title:**

**“Advanced direct biogas fuel processor for robust and cost-effective decentralised hydrogen production” BioRobur<sup>Plus</sup>**



**Topic:** FCH-02-2-2016. Development of compact reformers for distributed bio-hydrogen production

**Funding scheme:** Collaborative project

**Start date of project:** 1<sup>st</sup> January 2017

**Duration:** 54 months



**Deliverable 7.3: Final Workshop and training event held including assesement of student’s satisfaction**

**Organisation name of lead contractor for this deliverable:** POLITO

**Authors:** Debora Fino - Tonia Tommasi

**Disemmination level:** Public

This project has received funding from the Fuel Cells and Hydrogen 2 Joint Undertaking under grant agreement No 736272. This Joint Undertaking receives support from the European Union’s Horizon 2020 research and innovation programme, Hydrogen Europe and Hydrogen Europe research.

## 1. Introduction

The present deliverable “**7.3: Final Workshop and training event held including assesment of student’s satisfaction**” is part of the work package 7 (WP7), which ensure the dissemination of knowledge generated and to organize training activities. This workpackage is split into two Tasks, both under the responsibility of POLITO. The specific objectives of the WP7 are:

- Organize dissemination activities (participation to conferences and organization of fairs, seminars, workshops, journal publications, website).
- Transfer of knowledge from the project partners to end users.
- Providing knowledge about the technologies developed during the project.
- Define dissemination routes and agreements for the project results, based on market analysis for the BioRobur<sup>plus</sup> technologies
- Duly protect the knowledge and innovation generated, considering the possibility to apply for patenting at European level.

## 2. Focus on the Deliverable 7.3: Final Workshop and training event held including assesment of student’s satisfaction

The Final Workshop and Training Event was virtually held (on-line session) during the 29<sup>th</sup> European Biomass Conference & Exhibition EUBCE 2021, 26.29 April, Online, <https://www.eubce.com/>.

### 2.1 Agenda of the final workshop and training event

The agenda, and relative speakers, was the following:

**Bioroburplus concept** | 10 min

*Debora Fino, Politecnico di Torino*

**Materials (IRCE and SUPSI and ENGICER)** | 30 min

*Yves Schuurman, Institute-of-research-on-catalysis-and-the-environment-of-lyon-(IRCE)*

*Alberto Ortona, La Scuola universitaria professionale della Svizzera italiana (SUPSI)*

*Luca Ferrari, Engineered Ceramics (ENGICER)*

**Key Components (KIT and DBI)** | 30 min

*Christoph Wieland, Karlsruhe Institute of Technology, Technische Universität Bergakademie Freiberg (KIT)*

*Stephan Anger (DBI)*

**Plant and Results (Acea and HST)** | 30 min

*Viviana Negro, Acea Pinerolese Industriale Spa*

*Sorani Montenegro, (HST)*

**LCA** | 10 min

*Tonia Tommasi, Dept. of Applied Science and Technology, Politecnico di Torino*

**Question time** | 10 min

Here the link of the BioRoburPlus event description:

<https://www.eubce.com/hostedevents/biorobourplus-eu-project/>

## 2.2 Assessment of student's satisfaction

The event has seen the participation of 31 participants, among which only 14 answered to the satisfactory questionnaire (that is 45% of the total participant): here, an extract of the survey proposed at the end of the final event:

**Biorobur + WORKSHOP - Survey**

Thank you for participating to this Workshop. We really hope you enjoyed the event as much as we did!  
We want to find out your opinion so please fill out this short survey and tell us your ideas (the answers will be anonymous).

I am

Female

Male

Prefer not to say

Altro...

Country of provenience: \*

Testo risposta breve

You belong to

University/ Academic field

Research Centre

SME

Enterprise

Other

What is your level of overall satisfaction of BioroburPlus workshop? \*

1 2 3 4 5

Was the Workshop relevant and useful for your academic career/work? \*

1 2 3 4 5

What were the main concepts you appreciated in this event?

Testo risposta breve

Which topic/presentation did you find most relevant?

	Not relevant	Partially relevant	Relevant	Very relevant	I had not atten...
BioroburPlus C...	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Materials	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Key components	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pilot Plant	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Life Cycle Asse...	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Overall, what is your satisfaction level of the workshop? \*

1 2 3 4 5 6 7 8 9 10

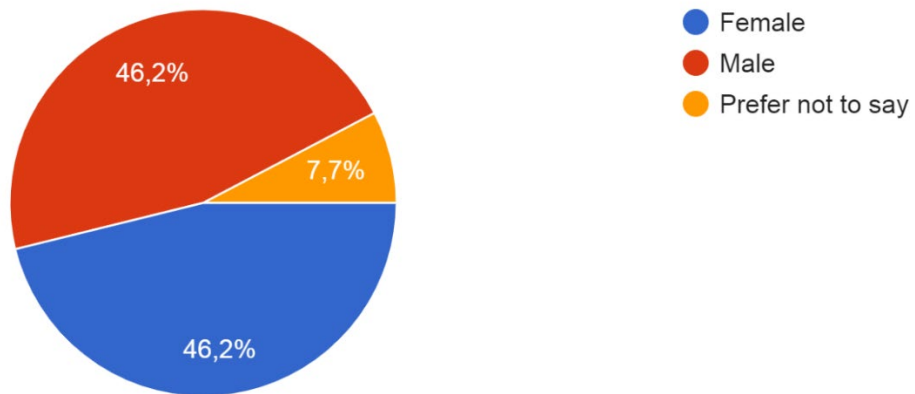
Do you have any comment, feedback or suggestion you want to share with us?

Testo risposta breve

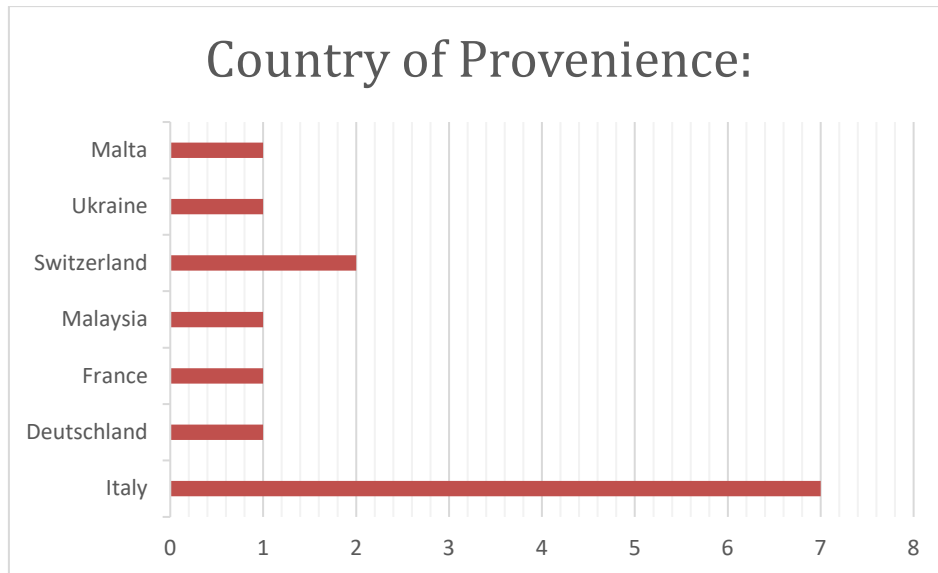
### 2.3 Overall results of questionnaire

The compiled questionnaire shows:

- information regards the gender (14<sup>th</sup> answers):

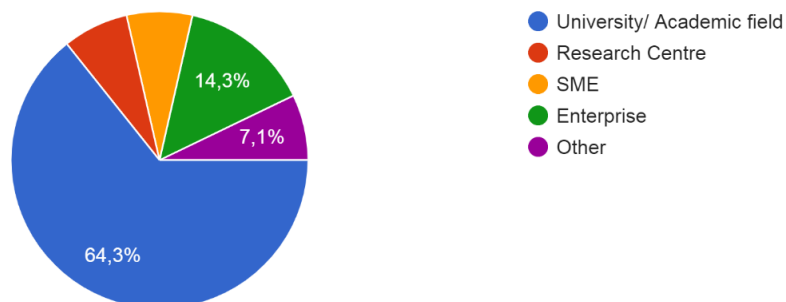


- Country of provenience:



- Working employment:

You belong to  
14 risposte



Relatively to the relevance of the topic, here in the following graphs and free answers we can summarize that the majority of participants, found relevant and useful this event for their career/work. In particular, they appreciated the overall concept for green hydrogen production, the new approach for biogas, the LCA and the Hydrogen production from low carbon sources and the utilization of biogas as renewable fuel for biohydrogen production, as reported in the satisfactory's questionnaire:

What were the main concepts you appreciated in this event?  
9 risposte

Good

All

The hydrogen production from low carbon sources and the utilization of biogas as renewable fuel for the production of biohydrogen

a new approach to biogas

Overall concept for green hydrogen production

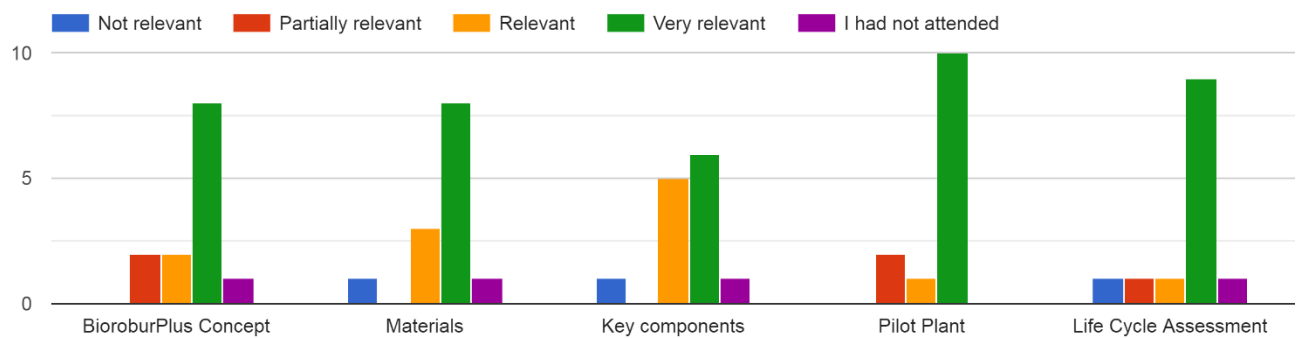
The development of most appropriate catalys supports

the innovation degree and the clarity of explanation

Ica

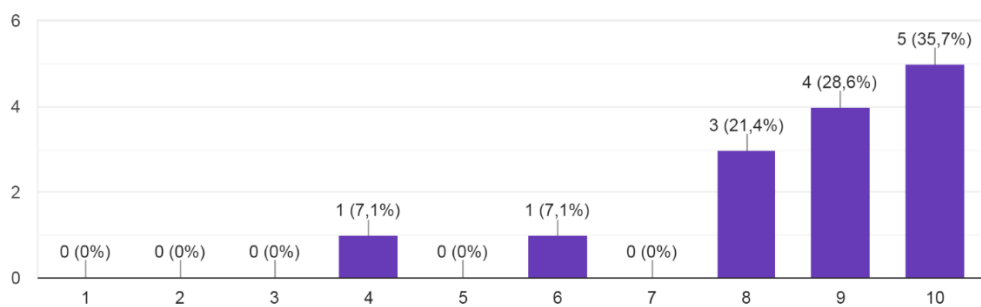
Nothing really, no practical concept

Which topic/presentation did you find most relevant?



Overall, what is your satisfaction level of the workshop?

14 risposte



Finally, from the last histogram, it was evident the interest of the workshop held, even if the modality unfortunately was not in presence.