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## **DELIVERABLE D8.7**

# **FINAL REPORT ON THE MULTI STAKEHOLDER PLATFORM**

**DISSEMINATION LEVEL: CONFIDENTIAL**

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Grant Agreement (GA) N. 815284

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## Document Control Sheet

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## 1. EXECUTIVE SUMMARY

This document provides an overview of the activities carried out by BLAZE partners and the SMART CHP project. This cooperation took the shape of the stakeholder platform BIOCOGEN2030, which has brought together many experts and stakeholders from the cogeneration sector by organizing a series of online events and surveys.

## 2. INTRODUCTION

What is the Multi Stakeholder Platform BIOCOGEN 2030?

Project deliverable D8.7 requires the consortium to set up a Multi stakeholder platform (MSP) directed towards community building and stakeholder engagement through the implementation of a series of off-line and online activities. The original due date for its launch was in M12, planned to be held during the 28<sup>th</sup> European Biomass Conference and Exhibition. However, covid19 caused the postponement of the conference from April to July 2020. It was then decided to hold an online webinar in early summer to launch the platform.

In April 2020 EUBIA's team started to cooperate with *Greenovate Europe* from the Smart CHP project (funded by the same Call as BLAZE) in order to launch a joint Stakeholder platform and create new synergies. This work led to the first press release announcing the birth of **BIOCOGEN 2030**, the stakeholder platform on small-medium scale biomass CHP systems. Down below we report the full text of the press release:

*A stakeholder community dedicated to biomass-based combined heat and power (CHP) systems has been launched by partners of two European research projects.*

*BIOCOGEN 2030 will foster knowledge exchange, gather feedback on R&D activities and enhance networking in the area, with the overall mission of increasing the share of bioenergy in the cogeneration market by the end of the decade.*

*The forum will consider critical topics influencing the up-take of innovative technologies and solutions, with a special focus on: biomass characterisation and suitability; process developments; market assessment; standardisation issues, and non-technological barriers.*

**The BIOCOGEN 2030 community is open to all interested stakeholders, who are invited to [register via this form](#).**

*BIOCOGEN 2030 was initiated by the partners of [BLAZE](#) and [SmartCHP](#), Horizon 2020 projects funded under the 2018 call for 'solutions to reduce the cost and increase performance of renewable technologies'.*

*The BLAZE project is developing a new generation of biomass CHP power plants through the integration of gasification in a fluidized bed with a solid oxide fuel cells (SOFC) system.*

*SmartCHP partners will design and build a novel small-scale cogeneration unit based on a modified diesel engine. The unit will run on fast pyrolysis bio-oil derived from the conversion of agroforestry residues and organic waste.*

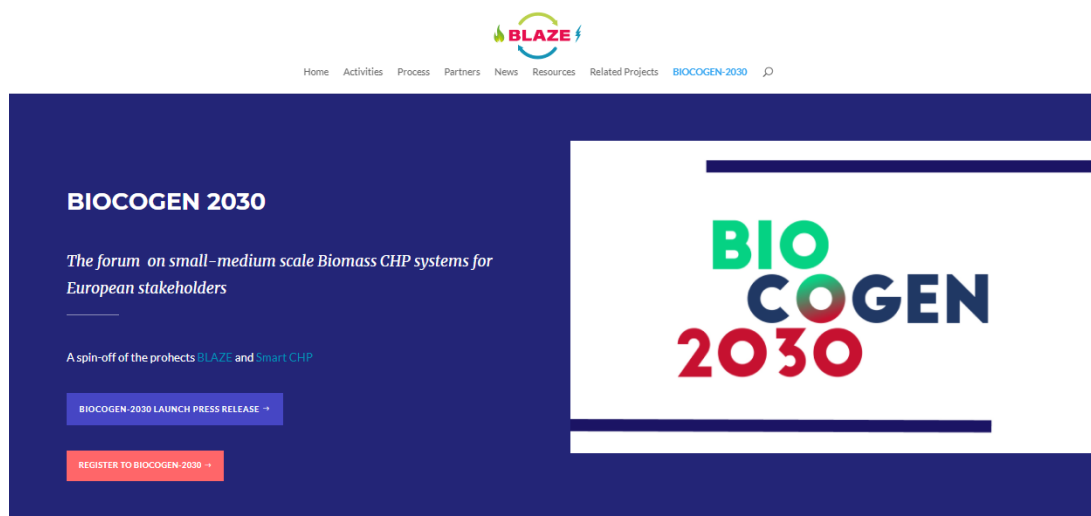
*BIOCOGEN 2030 will host a virtual launch event in June via an online webinar. From then on, regular stakeholder events and webinars will be organised on relevant topics.*

*Stakeholders signed up to the forum will receive periodic newsletters with updates from the projects, and be invited to develop joint initiatives and policy positions.*

The subscription to the platform can be easily finalized by filling a Google form. Preview reported below

A screenshot of a Google form titled "Join the European stakeholder forum on small-medium scale biomass CHP systems". The form header features the "BIO COGEN 2030" logo, with "BIO" in green, "COGEN" in blue, and "2030" in red. The main text of the form reads: "Join the European stakeholder forum on small-medium scale biomass CHP systems". Below this, it states: "BIOCOGEN 2030 is an open network gathering stakeholders active in the field of biomass CHP systems. The objectives of BIOCOGEN 2030 are to foster knowledge exchange, gather feedback on research and innovation activities and enhance networking in the area." It then says: "By registering via this form you will be added to our mailing list and receive project updates, event invitations and opportunities to collaborate directly in your inbox." A final line reads: "Your data will be handled according to the SmartCHP Data Protection Policy and will not be shared or used for purposes beyond the scope of the BIOCOGEN 2030 initiative." At the bottom left, there is a red asterisk followed by the text "\*Campo obbligatorio".

### 3. ACTIVITIES OF BIOCOGEN 2030



A dedicated section on BIOCOPEN 2030 was set up on the website of BLAZE, gathering all relevant news and activities. On the 9<sup>th</sup> of June 2020, BLAZE and Smart CHP organized the launch webinar of BIOCOPEN 2030, having the following agenda:

**1. Welcome and introduction,**

Giulio Poggiaroni – EUBIA & James Ling – Greenovate! Europe

**2. Cogeneration in Europe & role of small-medium scale biomass systems,**

Hans Korteweg – COGEN Europe

**3. BLAZE project ([www.blazeproject.eu](http://www.blazeproject.eu)),**

Enrico Bocci – University “Guglielmo Marconi”, Rome

**4. SmartCHP project ([www.smartchp.eu](http://www.smartchp.eu)),**

Bert van de Beld – BTG Biomass Technology Group

**5. BIOCOPEN 2030 stakeholder platform,**

Giulio Poggiaroni – EUBIA

**6. Q&A**

During this webinar Professor Bocci (USGM) introduced BLAZE to the audience while Giulio Poggiaroni (EUBIA) presented BIOCOPEN 2030, its scope and upcoming activities. Hans Korteweg from COGEN EUROPE gave a presentation on the status of cogeneration in the EU while Bert van de Belt from BTG introduced the Smart CHP project. The webinar was successful and well

received, with 70 people attending. A google form was made available to subscribe to BIOCOGEN 2030 and since then the platform has reached 104 individual subscribers from academia and industry.



During the 28th European Biomass Conference and Exhibition (6-9 July 2020, in a fully virtual form), a second BIOCOGEN 2030 webinar was organized, called “**Stories of innovation from the cogeneration world**”. This time the scope was to reach out new stakeholders and give them the chance to present their experiences regarding small-medium scale cogeneration from biomass. Following a brief presentation of BLAZE and SmartCHP, 5 CHP project/solutions were introduced to the audience by research institutes (POLITO, EPFL), a company (Entrenco GmbH) and a public agency (Energykontor Sydost).

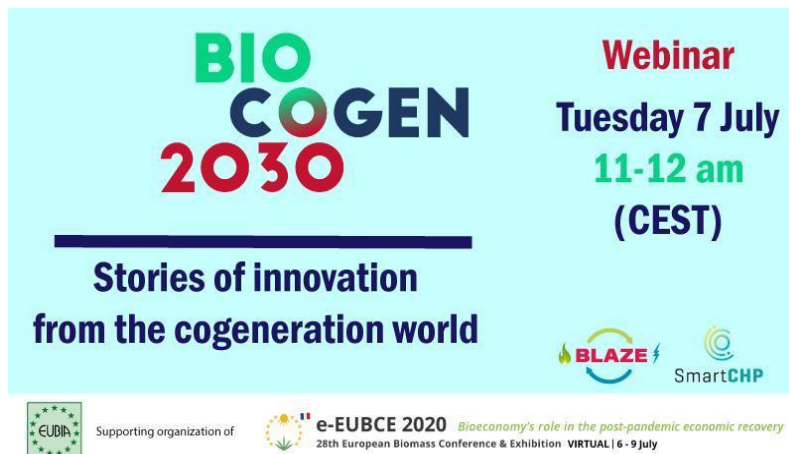
Titles and presenters:

Introduction: the platform BIOCOGEN 2030 (Giulio Poggiaroni-EUBIA)

- **École polytechnique fédérale de Lausanne**  
Project “Waste2Watts” (Dr. Jan Van Herle)  
Project “Waste2Grids” (Dr. Wang Ligang)
- **ENTRENCO GmbH**  
Solutions for small CHP units (Mr. Egbert Freiherr von Cramm – CFO/CSO, Dr. Burghard Knolle – CTO ENTRENCO GmbH)
- **Energy Agency for Southeast Sweden**  
Project “Small scale CHP Life+” (Daniella Johansson – Project Manager)
- **Technical University of Turin**  
Project “DEMOSOFC” (Dr. Marta Gandiglio)

This second webinar was successful too, reaching 80 attendees and further increasing the number of BIOCOGEN 2030 subscribers. Given the impossibility to hold any physical workshop/event during autumn/winter, a third webinar is scheduled for the second half of November 2020.



For the whole duration of EUBCE, information material on BLAZE and BIOCOGEN 2030 was made available in the virtual exhibition booth of EUBIA. Info and recording of the BIOCOGEN2030 event are available via the [Conference proceedings](#).





**BIO  
COGEN  
2030**

**Webinar**  
**Tuesday 7 July**  
**11-12 am**  
**(CEST)**

**Stories of innovation  
from the cogeneration world**

 Supporting organization of  **e-EUBCE 2020** *Bioeconomy's role in the post-pandemic economic recovery*  
28th European Biomass Conference & Exhibition VIRTUAL | 6 - 9 July



In September it was agreed by EUBIA and Greenovate to launch a dedicated LinkedIn page for BIOCOGEN 2030 in order to increase the overall visibility of the initiative and to differentiate the activities from those published on the project pages. At the end of the summer BIOCOGEN 2030 circulated a survey among its members to ask which topic could be of interest for the third webinar of the MSP and how subscribers evaluate the experience of BIOCOGEN 2030 so far. Find below a preview of the Google form used.

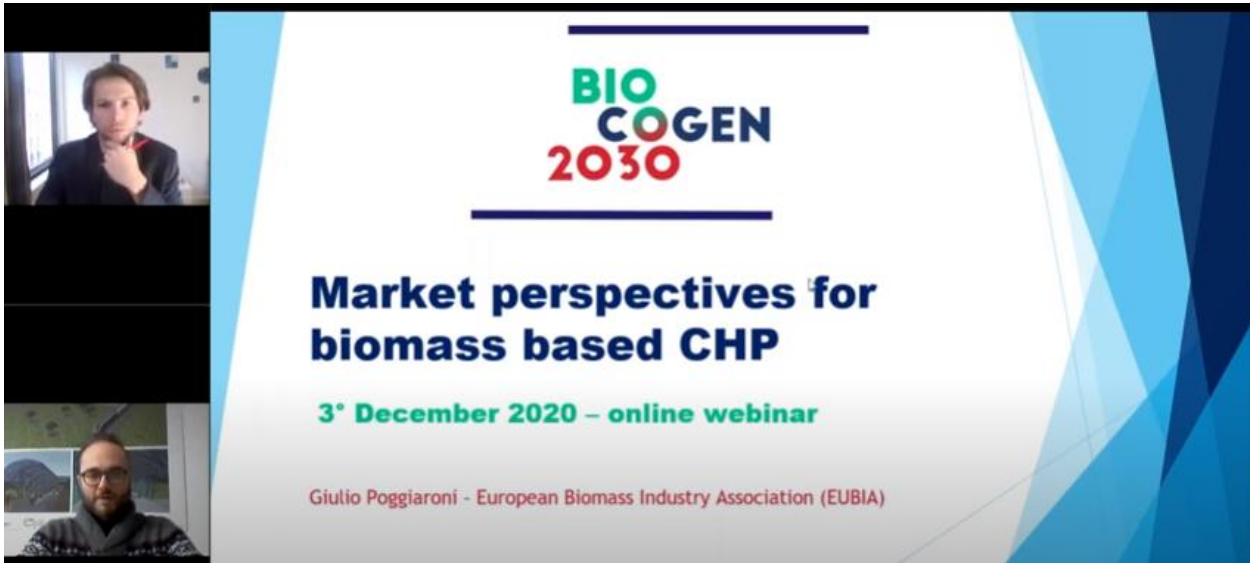


The image is a screenshot of a survey titled "BIOCOGEN 2030 summer survey". At the top left, the "BIOCOGEN 2030" logo is displayed in large, colorful letters. To the right, there are logos for "BLAZE" and "SmartCHP". Below the logos, the text reads "THE EUROPEAN STAKEHOLDER FORUM ON SMALL-MEDIUM SCALE BIOMASS CHP SYSTEMS". The survey content is enclosed in a white box with a red border. It begins with a greeting: "Dear BIOCOGEN 2030 members, we do not know yet if it will be possible to hold physical meetings and events in autumn. Most likely, our next activity will be another online webinar and we want to know your opinion on that!". Below this is a question: "Which topic should the next webinar address?". There are four radio button options: "Biomass flexibility for small-medium scale CHP", "Market advantages and market outlook of small-medium scale CHP units/plants", "Standardization issues and regulatory barriers", and "The role of small-medium scale biomass CHP in the EU Green deal".

The survey results indicated the topic “Market advantages and market outlook of small-medium scale CHP units/plants” as the most liked one. A third webinar focussing on such topic was scheduled and took place on the 3<sup>rd</sup> December 2020. Three distinguished guests from the industry presented their data and insights regarding the CHP market during the transition towards a decarbonised society.

Titles and presenters:

- Assessing the European market for small-scale biomass-based CHP – Nikos Sakellariou (EXERGIA & SmartCHP project)
- Market advantages and market outlook of small-medium scale CHP units/plants – Dirk Bonse (AHT Syngas)
- Insights from Asian markets – Egbert Freiherr von Cramm (ENTRENCO)



At [this link](#) one can find the related news and access the recording of the session.

During the 2021 edition of EUBCE, The 4th online event of the Stakeholder platform BIOCOGEN 2030 took place. The session was focussed on showcasing some biomass CHP solutions suitable for rural areas, developed by BIOCOGEN 2030 partners. Giulio Poggiaroni from EUBIA presented briefly the BIOCOGEN 2030 objectives and activities and introduced the distinguished speakers. It is noteworthy that the speakers of this session, had come in touch with the platform thanks to the previous activities (webinars and surveys). Info and recording of the event are available via the [Conference proceedings](#).



Topics and presenters:

- Manolis Karampinis (CERTH): Agrobiomass resources in Europe and state-of-the art technologies for heat production
- Dirk Bonse (AHT syngas): Creating Material and Energetic Circular Economies in Rural Areas by Utilisation of Biogenic Residues“.
- Josè la Cal Herrera (BIOLIZA): 1 MWe CHP Gasifying biomass for on-farm consumption

At [this link](#) one can find the images of the event and the downloadable presentations.

On the 7th December 2021, the platform BIOCOGEN 2030 organized a new webinar focussing on cogeneration systems utilizing biomass residues as feedstock.

The event saw the participation of two distinguished external guests. Alexandra Tudoroiu (COGEN Europe), who gave an insightful overview on the role that cogeneration has within the Fit for 55 strategy and pathways. Michał Długosz (Bioenergy Europe) focussed more on the specific role of bioenergy in the decarbonization pathways.

After the initial presentatons it was the time for the BIOCOGEN 2030 founding partners (BLAZE and SmartCHP projects) to present. Nicola Rovelli (ENERECO) presented the BLAZE project while Athanase Vafeas (Dowel Innovation) presented Smart CHP. After these two last presentations, the panel exchanged feedback and comments on the topics addressed. Presentations and recording are available [here](#).

The image shows a webinar slide with a dark blue background. On the left, there is a logo for "BIO COGEN 2030" with "BIO" in green, "COGEN" in blue, and "2030" in red. Below the logo, the text "Biomass CHP in the clean energy transition" is written in white. At the bottom left, it says "#Webinar" and "7 DECEMBER 2021, 10:30-12:00". On the right side, there is a list of participants: "Moderator: Giulio Poggiaroni (Eubia)" and "Speakers: Alexandra Tudoroiu (Cogen Europe), Michał Długosz (Bioenergy Europe), Nicola Rovelli (Enereco - Blaze), Athanase Vafeas (Dowel Innovation - Smart CHP)". At the bottom right, there are logos for BLAZE and SmartCHP, and text indicating it is an initiative of the Horizon 2020 projects. A small video feed of Giulio Poggiaroni is visible in the top right corner.

In 2022, in the aftermath of the Russian aggression of Ukraine and the energy crisis, BIOCOGEN 2030 held a thematic webinar. The current energy crisis represents a major challenge for Europe but also an opportunity to increase necessary efforts to accelerate the green transition and secure its energy autonomy.

Effective implementation of bioenergy and cogeneration solutions can represent a significant role in reaching European energy objectives. However, the full potential of these solutions remains unexploited and the current REPowerEU plan is very vague concerning their use.

In this latest BIOCOGEN 2030 webinar, Ennio Prizzi from Bioenergy Europe presented the REPowerEU plan and its critical aspects. Dr. Norbert Vasen (EUBIA) presented the potential of BLAZE and Smart CHP systems in addressing the objectives listed in the EU plan. Description and recording of the webinar is available [here](#).



In 2023, with the end of the BLAZE and Smart CHP projects approaching, the two teams have agreed to join forces for one last activity. During the 31<sup>st</sup> edition of EUBCE (returning as a physical event after the covid emergency), taking place from the 5<sup>th</sup> to the 9<sup>th</sup> of June 2023 in Bologna (IT), the BLAZE project will hold its [final event](#), illustrating the main achievements.

BLAZE partners USGM, ENEA, UNIVAQ, ENERECO, SOLYDERA, EPFL and EUBIA will take part in the event as speakers in the first (main) panel. Below you can find the promo card of the event.



EUBCE 5th-8th June 2023 - Bologna, Online

FREE EVENT

## High Efficiency and Low Emissions CHP Technologies From Biogenic Residues

6 June

16:15- 18:30 CEST

ORGANISED BY:



etaflorence®  
renewableenergies



The second and final panel of the event, will be dedicated to BIOCOGEN2030 and the coordinator of SmartCHP will be invited to speak, followed by a recently started Horizon Europe project: Fit4Micro.

This new project is the position to gather the experience and network created by BIOCOGEN2030 and keep it alive with new activities and initiatives. Among the project partners there is COGEN Europe, B.T.G. Biomass technology group (coordinator of SmartCHP) and ETA Florence (member of EUBIA and third party of BLAZE).

#### 4. NUMBERS OF BIOCOGEN 2030 (UPDATE 31/05/2023)

By the end of May 2023, the platform has gathered **184** subscribers to the platform **6 online events** organized, **350** attendees during the streaming, **600** visualizations of the recordings, **6** companies/research institutes/associations actively engaged, **1** physical event planned (6/06/2023).