

Bio RECAST



D5.3 Interim Report on Stakeholder Engagement

June 2025

WIP Renewable Energies



This project has received funding from the European Union's funding programme Research Fund for Coal and Steel under grant agreement No 101112601. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or European Research Executive Agency. Neither the European Union nor the granting authority can be held responsible for them.

Table 1: Document information

Document Information	
Project name:	BioRECAST
Full title:	BIObased Residues Conversion to Advanced fuels for sustainable Steel production
Grant agreement number:	101112601
Deliverable number, name:	D5.3 Interim Report on Stakeholder Engagement
Lead beneficiary:	WIP
Type:	Report
Delivery date:	30.06.2025
Dissemination level:	Public
Main author:	Olgu Birgi, Rainer Janssen

Table 2: Document history

Version	Date	Changes	Reviewer/ contributor
V1 – first draft	26.06.2025	Document creation	Olgu Birgi / WIP
Final deliverable submission	30.06.2025	Final	Olgu Birgi, Rainer Janssen / WIP

ACKNOWLEDGMENT & DISCLAIMER

This project has received funding from the European Union's funding programme The Research Fund for Coal and Steel under grant agreement No 101112601.

This document has been prepared by BioRECAST project partners as an account of work carried out within the framework of the EC-GA contract No 101112601.

Neither Project Coordinator, nor any signatory party of BioRECAST Project Consortium Agreement, nor any person acting on behalf of any of them:

- a) makes any warranty or representation whatsoever, expressed or implied,
 - i. with respect to the use of any information, apparatus, method, process, or similar item disclosed in this document, including merchantability and fitness for a particular purpose, or
 - ii. that such use does not infringe on or interfere with privately owned rights, including any party's intellectual property, or
 - iii. that this document is suitable to any particular user's circumstance; or
- b) assumes responsibility for any damages or other liability whatsoever (including any consequential damages, even if the Project Coordinator or any representative of a signatory party of the BioRECAST Project Consortium Agreement has been informed of the possibility of such damages) resulting from your selection or use of this document or any information, apparatus, method, process, or similar item disclosed in this document.

The information and views set out in this report are those of the author(s) and do not necessarily reflect the official opinion of the European Union. Neither the European Union institutions and bodies nor any person acting on their behalf may be held responsible for the use which may be made of the information contained therein.

Reproduction is authorised provided the source is acknowledged.

List of Tables

Table 1: Document information	2
Table 2: Target stakeholders identified by project partners	8
Table 3: Organisations and stakeholder category of the webinar participants	14

List of Figures

Figure 1: BioRECAST LinkedIn Profile.....	10
Figure 2: BioRECAST webinar announcement	10
Figure 3: BioRECAST conference attendance	11
Figure 4: BioRECAST website visitor information	11
Figure 5: BioRECAST appearance at the Biogas Italy 2024.....	12
Figure 6: BioRECAST presentation at EUBCE 2024	12
Figure 7: BioRECAST workshop at EUBCE 2025.....	13
Figure 8: BioRECAST presentation at EUBCE 2025	13
Figure 9: Webinar participants' country distribution	16
Figure 10: Webinar banner.....	16
Figure 11: BioRECAST presentation.....	16
Figure 12: BioRECAST project newsletters	17
Figure 13: BioRECAST featured in the WIP newsletters	18
Figure 14: BioRECAST featured in the EERA Bioenergy newsletter	18
Figure 15: BioRECAST first press release	19
Figure 16: BioRECAST flyer	19
Figure 17: BioRECAST presentation at EUBCE 2024 conference proceeding	20

Table of Contents

1	Executive Summary	6
2	Stakeholder Mapping and Identification	7
3	Engagement Strategy and Activities	10
3.1	Social Media Channels	10
3.2	Website	11
3.3	Conference attendance and other collaborations	11
3.4	Webinar series & BioRECAST workshops	13
3.5	Publications and BioRECAST Promotion Materials	17
3.5.1	Newsletters	17
3.5.2	Press Release	18
3.5.3	BioRECAST Flyer	19
3.5.4	Scientific Publications	20
4	Conclusion	21

1 Executive Summary

During the lifetime of the BioRECAST project and beyond, significant efforts have been and will continue to be devoted to engaging relevant stakeholders. These stakeholders were initially identified by the consortium partners in the Dissemination and Communication Plan and have since been updated through joint efforts.

WIP Renewable Energies, in particular, took the lead in initiating communication with the majority of stakeholders. This was done by providing essential information about the BioRECAST project via direct emails, through multipliers to expand outreach, by inviting stakeholders to follow our social media channels, and by encouraging participation in the first BioRECAST webinar. Project partners also engage with stakeholders during the meetings and conferences they attend to present the BioRECAST project, as well as maintaining close contact with other sister projects.

Stakeholder engagement lies at the heart of this project. Raising awareness within the targeted stakeholder communities and fostering meaningful engagement is key to paving the way for the successful deployment and exploitation of the project results.

The aim of this report “D5.3 Interim Report on Stakeholder Engagement” is to gather all relevant information related to stakeholder engagement, including stakeholder mapping, target groups, and engagement methods. This will support the development of a targeted strategy to maximise project impact by reaching and interacting with as many stakeholders as possible. Additionally, this interim report will help us review and assess the effectiveness of our stakeholder engagement strategy so far, identifying the most successful methods and guiding improvements for the second half of the project.

2 Stakeholder Mapping and Identification

In order to maximise the project's impacts and to ensure a broader and more efficient dissemination and exploitation of results, it is essential to identify relevant stakeholders in advance and to develop tailored engagement strategies for different stakeholder categories. This approach is expected to lead to the most effective outcomes.

Please find below the key audience target groups, as already outlined in the Dissemination and Communication Plan. The key audience is categorised into four main groups: General Public, Institutional Bodies, Research, and Industry & Stakeholders.

- **The General Public** includes EU citizens. The objective is to engage this group from the outset and to enhance the project's visibility among the broader public.
- **Institutional Bodies** refer to EU and national institutions. The aim here is to generate awareness and foster a general consensus within these organisations.
- **The Research** category includes academia and research centres. Engaging the scientific community is a key objective to enable insightful exchanges and foster collaboration.
- **Industry & Stakeholders** comprise steelmaking production companies, biowaste producers, farmers, and fertiliser producers. The goal is to stimulate potential future business engagement with these stakeholders.

Table 1: BioRECAST key audience target groups

General Public	Institutional Bodies	Research	Industry & Stakeholders
EU citizens	EU & national institutions	Academia and research centers	Steelmaking production companies Biowaste producers Farmers Fertilisers producers
Objective: engaging general public; enhance project visibility	Objective: generating awareness and the general consensus	Objective: engaging the scientific community	Objective: boosting the potential future business engagement

In addition to the information given in the table above, a more detailed version of the main target industries of BioRECAST is provided below:

- Waste managers and wastewater treatment plants operators (producers of waste);
- Fertilisers producers (end users of extracted fertilising raw materials);
- Steel industries (end users of biocoal);
- Pyrolysis plant manufacturers;

Besides targeting the aforementioned industries, Industrial Symbiosis is also favoured by the project between various industrial sectors (e.g., steel and wastewater treatment plants).

The BioRECAST partners were also asked to identify the target stakeholders to ensure that all organisations and individuals important for collaboration in the project activities are reached throughout the project.

Please see **Table 2** for the initial list of target stakeholder names provided by the partners. The list will be updated and expanded as new tasks commence. Since this is a public deliverable and for data protection reasons, contact details such as names and emails are not included in this table. Some of these target stakeholders have already been contacted or involved in project activities, such as the webinar held on 18.06.2025, as well as conferences and collaborations. Others will be contacted by

assigned partners throughout the project's duration as relevant events and collaboration opportunities arise.

Table 2: Target stakeholders identified by project partners

Key audience target group category	If you chose other please specify the category	Name of the organisation	How to reach, engage this stakeholder?
Academia		Luleå University of Technology	Via first joint webinar took place on the 18.06.25
Academia		Chalmers University	via Biochar IV conference
Biowaste producers		Hera Group	via invitations to project activities
Biowaste producers		A2A	via invitations to project activities
Biowaste producers		Veolia	via invitations to project activities
EU institutional body		European Commission Directorate-General for Energy (DG ENER)	via invitations to project activities
Farmers		<i>Coldiretti</i> (Italy)	via invitations to project activities
Farmers		COPA-COGECA	via invitations to project activities
Fertilisers producers		Yara International	via invitations to project activities
Fertilisers producers		EuroChem	via invitations to project activities
Fertilisers producers		Fertiberia	via invitations to project activities
National institutional body		Regional Environmental Protection Agencies (ARPA in Italy)	via invitations to project activities
National institutional body		Ministry of Ecological Transition (Ministero della Transizione Ecologica - MITE)	via invitations to project activities
National institutional body		Italian Institute for Environmental Protection and Research (ISPRA)	via invitations to project activities
Other	European steel technology platform	ESTEP	Via conferences webinars
Other	European steel association	EUROFER	Via conferences webinars
Other	International energy agency bioenergy	IEA Bioenergy Task 33: Gasification of Biogenic and Waste Feedstocks for a Sustainable Future.	Via first webinar took place on the 18.06.25
Other	Bioenergy association , NGO	Bioenergy Europe	Direct contact via email

Other	European steel technology platform	ESTEP and the Scientific Committee of SecCarb4Steel workshop	Direct contact via email
Other	Spanish steel technology platform - Waste heat Working Group	PLATEA	Direct contact via email
Other	Sister projects	H2Steel	close contacts with PoliTo, organisation of the joint webinar
Other	Industrial stakeholder	European Biomass Association (AEBIOM)	via invitations to project activities
Other	Pyrolysis manufacture & research	BTG Biomass Technology Group	Direct contact via email
Other	Wastewater treatment operators	Suez	via invitations to project activities
Other	Wastewater treatment operators	Veolia	via invitations to project activities
Research center		CEDER - Centre for the Development of Renewable Energy (Spain)	via contact with the communication dept and individual contacts with researchers
Research center		Joint Research Centre (JRC) of the European Commission	via invitations to project activities
Research center		ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development)	via invitations to project activities
Research center		TNO (Netherlands Organization for Applied Scientific Research)	via invitations to project activities
Research center		SINTEF	via invitations to project activities
Steelmaking production companies		ArcelorMittal	via invitations to project activities
Steelmaking production companies		Danieli Group	via invitations to project activities
Steelmaking production companies		Marcegaglia	via invitations to project activities

3 Engagement Strategy and Activities

BioRECAST targeted stakeholders have been and will continue to be approached both in person and online. Events and activities will be carefully selected to reach a large number of stakeholders. Sector participation in conferences, involvement in fairs or exhibitions, publications, and BioRECAST webinars & workshops and events can be utilized to engage a wide group of stakeholders effectively.

Furthermore, apart from the previously suggested methods, social media channels and the BioRECAST website as well as project publications, newsletters and posts will be used to increase the project's visibility and effectively reach a targeted number of stakeholders/audiences.

The activities boosted engagement during the first half of the project are given below.

3.1 Social Media Channels

Project social media channels are actively used to inform and keep stakeholders engaged and up to date. Project news and upcoming events are regularly shared, and BioRECAST's participation in various conferences and events is continuously promoted. By inviting contacts to follow BioRECAST social media channels and tagging all project partners and relevant stakeholders in posts, outreach is maximised.

LinkedIn is the main social media platform, attracting the largest audience and generating the most impact and engagement for the project, with 166 followers from over 28 countries within the EU and beyond.

Some LinkedIn posts announcing webinars and conference attendance are shared as examples below.

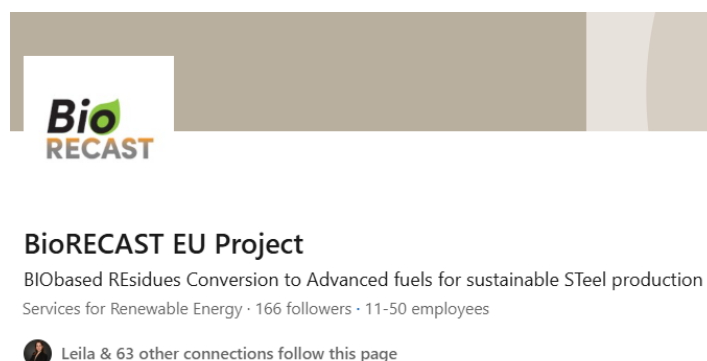


Figure 1: BioRECAST LinkedIn Profile



Figure 2: BioRECAST webinar announcement

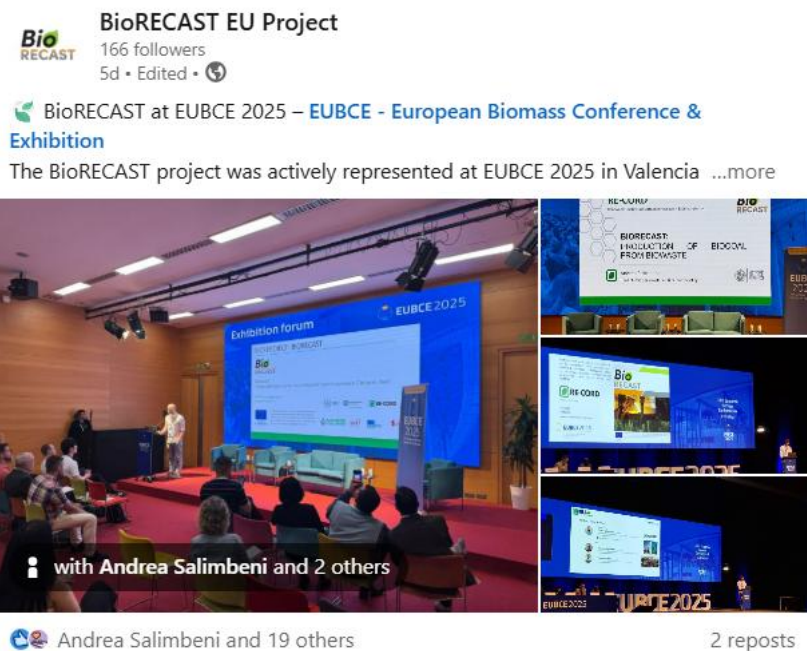


Figure 3: BioRECAST conference attendance

3.2 Website

The BioRECAST website is another platform to engage more stakeholders in the project. It is mentioned in all communication materials as well as during presentations at conferences and webinars. The website is regularly updated with news, pictures, and public deliverables submitted as part of the project.

Below (in Figure 4) is a list of website visitors who have accepted cookies, in compliance with the EU's GDPR regulations.

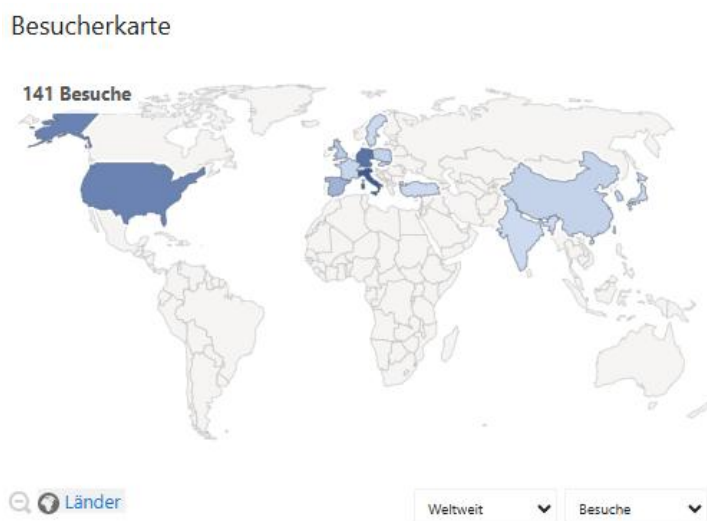


Figure 4: BioRECAST website visitor information

3.3 Conference attendance and other collaborations

In-person appearances of the BioRECAST project are also highly effective for engaging target stakeholders and are strongly encouraged within the project. A key performance indicator relates to attendance at topic-related conferences and events, with the aim of attending at least six in-person events during the project's lifetime.

As of month 20 of the project, we are already ahead of this target, having attended five in-person events. You can find the list of these events below:

Clustering activities

The BioRECAST project was presented at the following two clustering events, which featured projects with similar themes focused on decarbonising the steel industry:

- BioRECAST Presentation at **TGA1 IRON AND STEELMAKING**
- **SecCarb4Steel - ESTEP workshop (online)**: Recent project activities on national and European level following secondary carbon carriers' usage.

Conferences

- **Biogas Italy 2024**: Politecnico di Torino presented at the benchmark conference for agricultural biogas and biomethane in Rome on 13 March 2024. The presentation was titled "Biomethane Market: Developments and Achievements in the EU and Italy."



Figure 5: BioRECAST appearance at the Biogas Italy 2024

- **EUBCE 2024**: The European Biomass Conference and Exhibition is one of the largest and most important international conferences focused on biomass, bioenergy, and related technologies. BioRECAST was presented orally by our coordinator, Politecnico di Torino in the session called "Biomass Valorisation for Polymers and Liquids" on June 25th.



Figure 6: BioRECAST presentation at EUBCE 2024

- **EUBCE 2025:** Similarly, at the 2025 edition of EUBCE, On the 10th of June 2025 BioRECAST was presented by our partner RE-CORD during the **oral session** titled “Production Processes of Waste into Biofuels and Bioproducts.” The BioRECAST presentation was named: “Optimization and Scaling Up Validation of an Integrated Slow Pyrolysis and Leaching Process Addressing Steel Sector Decarbonization through Biocoal Production from Green Waste and OFMSW.” Additionally, the BioRECAST project was showcased again by our RE-CORD colleagues at the **exhibition forum through a workshop** titled “The Role of Biomass in the Decarbonization of the European Metallurgical Industry and Visit of an Industrial Pilot Plant for Hydrothermal Carbonization,” featuring the presentation “BioRECAST: Production of Biocoal from Biowaste.”



Figure 7: BioRECAST workshop at EUBCE 2025



Figure 8: BioRECAST presentation at EUBCE 2025

3.4 Webinar series & BioRECAST workshops

As part of the stakeholder strategy starting from month 12 of the project, online webinars will be organised every six months. These events will initially focus on presenting BioRECAST to a wider audience. Subsequent webinars will provide a forum for debate to discuss the project's proposed model and keep stakeholders informed and up to date throughout the project.

The first BioRECAST webinar "Defossilizing the Steel Sector" successfully engaged a diverse and representative group of stakeholders across multiple sectors. A total of over 70 organisations from 30 countries participated, including academia, private companies, research institutes, NGOs, national bodies, EU institutions and independent consultants. (See Table 3 and Figure 9 below)

Table 3: Organisations and stakeholder category of the webinar participants

Organisation	Category
Aarhus University	Academia
Air Liquide	Private Company
Alfred H Knight	Private Company
BEST - Bioenergy and Sustainable Technologies	Research Institute
BTG Biomass Technology Group BV	Private Company
BioShare AB	Private Company
Bioenergy Europe	NGO
CERTH	Research Institute
CFLS	Research Institute
CLIC Innovation	Research Institute
CMQ	Academia
CONTACTICA	Private Company
Chalmers University of Technology	Academia
Danish Technological Institute (DTI)	Research Institute
Davant Commodities Ltd UK	Private Company
Deutsch Biomass Research Center (DBFZ)	Research Institute
Drax	Private Company
ENV Services Limited	Private Company
eAmbiente	Private Company
European Commission	EU Body
European Commission Joint Research Centre	EU Body
CIRCE	Research Institute
Freelance Engineer	Other
GazoTech	Private Company
Höganäs AB	Private Company
IES-UPM	Academia
IHE Delft Institute for Water Education	Academia
IREC	Research Institute
Indian Institute of Technology Ropar	Academia
Industrial Accessories Company	Private Company
Inspiratus technologies	Private Company
Institute of Technology and Life Sciences	Research Institute
LG Chem Europe	Private Company
Lulea university of technology	Academia
Lund University	Academia
Maersk	Private Company
Mawogani	Private Company
Meva Energy AB	Private Company
Mohawk College	Academia
NTNU	Academia
Natural Resources Canada	National Body
NingboTech	Academia

Optimum Energias Renováveis	Private Company
Politecnico di Milano	Academia
Politecnico di Torino	Academia
Queen's University	Academia
Quebec Metallurgy Center	Research Institute
RSB	NGO
RWTH Aachen University	Academia
Ricardo	Private Company
SFTec Oy	Private Company
SIDENOR	Private Company
SINTEF Energy Research	Research Institute
SOCAR Green	Private Company
STEMS-CNR	Research Institute
SUNY ESF	Academia
Sener	Private Company
Swerim AB	Research Institute
TME	Private Company
TNO	Research Institute
TU/e	Academia
TUBITAK	National Body
TUM	Academia
Technip Energies Italy	Private Company
Toyota Motor Europe	Private Company
UNIFEI	Academia
UQTR	Academia
USTHB	Academia
University of Lisbon	Academia
University of Stuttgart	Academia
University of Tehran	Academia
University of Tokyo	Academia
University of Western Macedonia	Academia
University of the Sunshine Coast	Academia
WAI Environmental Solutions AS	Private Company
WIP Renewable Energies	Private Company
World Steel Association	NGO

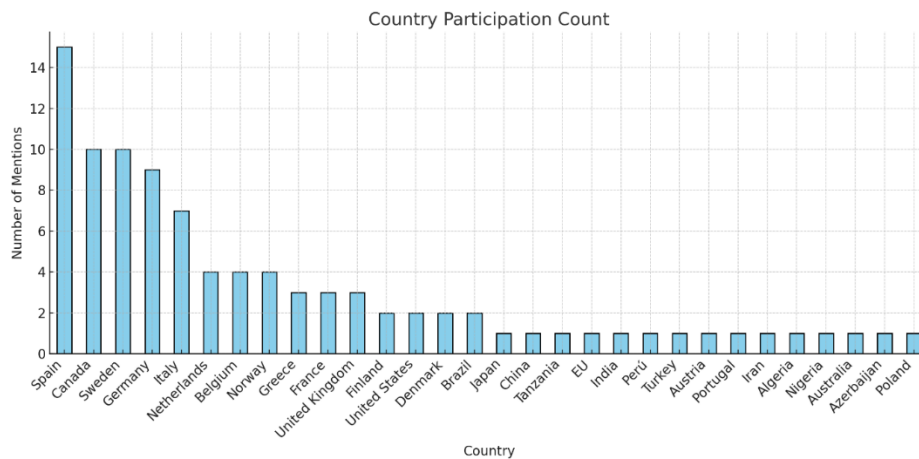


Figure 9: Webinar participants' country distribution

Following the webinar, the recording and presentations were shared with all attendees via email to reinforce the information exchange and allow further dissemination within their organisations. BioRECAST partners remain committed to maintaining regular contact with these stakeholders, ensuring continued engagement throughout the project lifecycle via upcoming webinars, workshops, and collaborative activities.

Below, you can find the webinar promotional materials, pictures from the BioRECAST project presentation.



Figure 10: Webinar banner

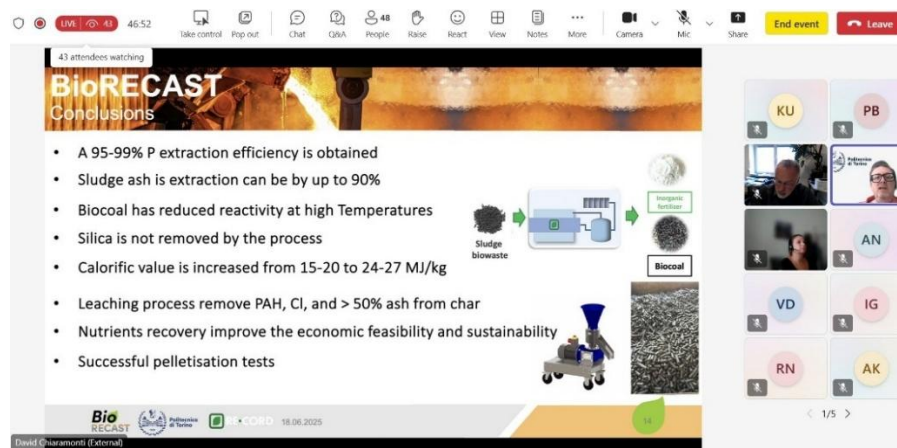


Figure 11: BioRECAST presentation

WIP will also help organise side events and workshops in the second and third years of the project to catalyse stakeholders' attention on BioRECAST during these high-level European events. These events will especially help engage research communities, academia, and industry players. In total, three workshops will be organised. During the planning of these events, liaison will be sought with relevant communities, clustering initiatives, and sister projects to maximise the impact and visibility of BioRECAST even further.

3.5 Publications and BioRECAST Promotion Materials

Scientific publications, newsletters, and project promotional materials are additional ways to collaborate with and engage target stakeholders. Written literature has the potential to disseminate and exploit project results throughout the project duration and beyond. These materials are shared through multiple channels, with all project content available on the project website and LinkedIn account, maximizing their visibility.

3.5.1 Newsletters

BioRECAST newsletters are published twice a year and include information about the project, partners, project news, past and upcoming events, public deliverables, and project materials. In addition to the project newsletter, BioRECAST is featured in partner organisation newsletters as well as in newsletters from some target stakeholders, such as the EERA Bioenergy newsletter. Below, you can find pictures of BioRECAST appearances in various newsletters.

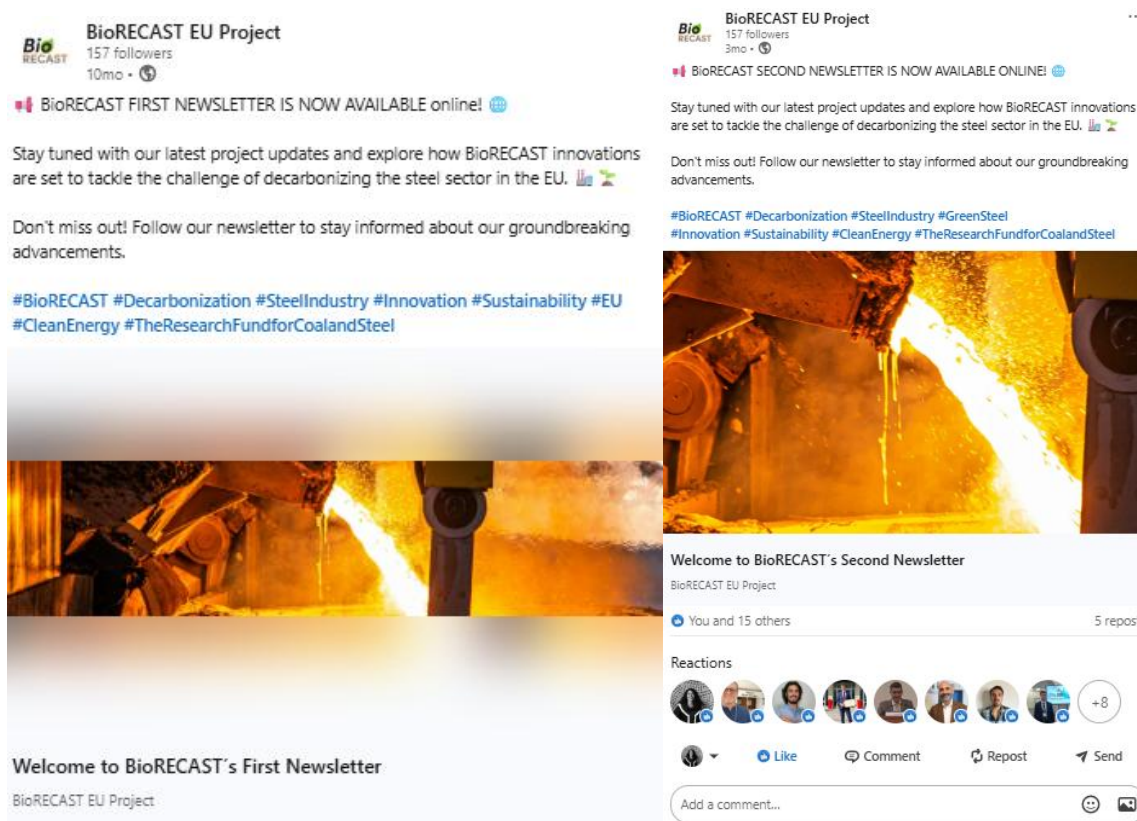
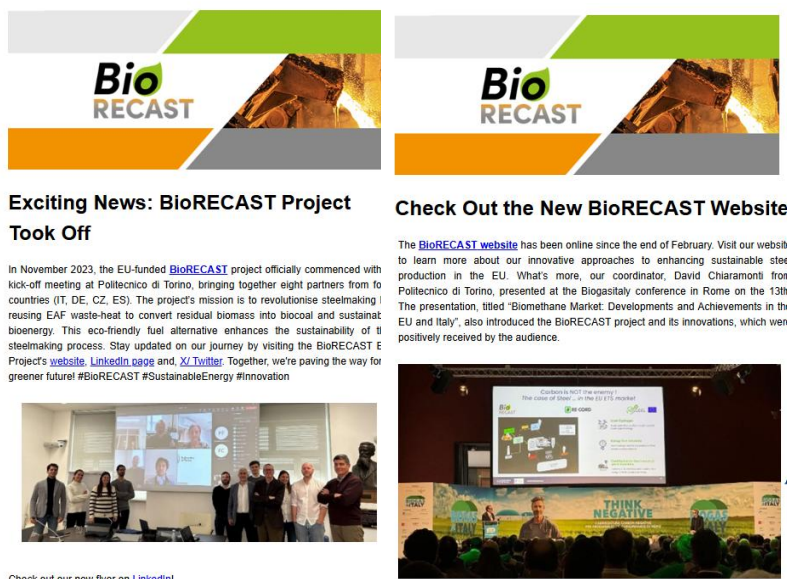


Figure 12: BioRECAST project newsletters



Exciting News: BioRECAST Project Took Off

In November 2023, the EU-funded [BioRECAST](#) project officially commenced with kick-off meeting at Politecnico di Torino, bringing together eight partners from 10 countries (IT, DE, CZ, ES). The project's mission is to revolutionise steelmaking by reusing EAF waste-heat to convert residual biomass into biocoal and sustain bioenergy. This eco-friendly fuel alternative enhances the sustainability of the steelmaking process. Stay updated on our journey by visiting the BioRECAST Project's [website](#), [LinkedIn page](#) and [X/Twitter](#). Together, we're paving the way for greener future! #BioRECAST #SustainableEnergy #Innovation



Check out our new flyer on [LinkedIn!](#)

Check Out the New BioRECAST Website

The [BioRECAST website](#) has been online since the end of February. Visit our website to learn more about our innovative approaches to enhancing sustainable steel production in the EU. What's more, our coordinator, David Chiamonti from Politecnico di Torino, presented at the BiogasItaly conference in Rome on the 13th. The presentation, titled "Biomethane Market: Developments and Achievements in the EU and Italy", also introduced the BioRECAST project and its innovations, which were positively received by the audience.



Figure 13: BioRECAST featured in the WIP newsletters

BIORECAST PROJECT ON THE LATEST EERA BIOENERGY NEWSLETTER: ISSUE 21

EERA Bioenergy JP • Following
EERA Bioenergy Secretariat en EERA - The European Energy Research Alliance
1 mo •

"The main objective of [BioRECAST EU Project](#) is to foster the consumption of [#biowaste](#) streams as renewable carbon and energy source for the steel sector and, at the same time, to valorise the waste heat of EAF steelmaking. ...more



BioRECAST- Biobased Residues Conversion to Advanced Fuels for Sustainable Steel Production

Exciting news! The BioRECAST project has been featured in the latest EERA Bioenergy Newsletter!

Check the [last issue](#) to discover more about our innovative work and how we are shaping the future of bioenergy.

Special thanks to [EERA Bioenergy JP](#)

Figure 14: BioRECAST featured in the EERA Bioenergy newsletter

3.5.2 Press Release

Press releases are used to update stakeholders about project milestones, important findings, and results. So far, one press release has been published regarding the project kick-off. However, as progress is made in the various work packages and tasks, more press releases will be issued to engage target stakeholders.

BioRECAST - BIObased RESidues Conversion to Advanced fuels for sustainable STEEL production

The EU-funded BioRECAST project (upcoming website: www.biorecast.eu) officially started in November 2023, and the launch of the project is now announced through this press release. The first consortium meeting took place in a hybrid format (online and in person), with all eight partners from four countries (IT, DE, ES, CZ), during the kick-off meeting on the 20th of November at the premises of the coordinating partner, Polytechnic of Turin. Consortium partners include the Polytechnic of Turin, RE-CORD, the Polytechnic of Milan, SIDENOR, CALVISANO, HTT Engineering, Rina Consulting and WIP Renewable Energies.

BioRECAST Project

Steel sector decarbonization is a key challenge for the EU Green deal targets. BioRECAST proposes a "new and improved steelmaking technique", reusing waste-heat of electric arc furnace from steel company for the on-site conversion of residual biomass into bio-coal and sustainable bioenergy, to be used as alternative sustainable fuels for steelmaking process, increasing the sustainability of steel company, particularly Electric Arc Furnace (EAF) process. The project work plan includes: bio-coal production tests in a 100 kg/h plant, bio-coal industrial tests in EAFs; pyrogases combustion trials and design of new pyro-gas burner to be used in EAFs, and the executive design based on two industrial case studies of a new integrated pyro-EAF steelmaking plant.

Project Objectives

BioRECAST addresses the research objective for steel: "New and improved steelmaking and finishing techniques". The project also aims to the research objective "Decarbonisation and Modernisation of steel sector", of the European Green Deal Communication. In particular, the main scope of BioRECAST is to foster the consumption of biomass streams as renewable carbon and energy source for the steel sector and, at the same time, to valorise the waste heat of EAF steelmaking. The project pathway towards the achievement of this goal is based on innovative solutions:

1. The production of bio-coal from residual biomass streams of suitable quality to be used as coal substitute in EAF steelmaking processes;
2. The valorisation of EAF hot flue gases to supply the thermal energy required for the pyrolysis process, enabling the use of the pyrolysis gases (Pyrogases) as renewable energy source in the steel sector.
3. Assessment of best available solution for pyro-gas valorization in the steel making company.

Follow us on [Linkedin](#), [X \(Twitter\)](#) to stay tuned!

Contact

Coordinator: David Chiaramonti, Viviana Negro, Politecnico di Torino
Email: david.chiaramonti@polito.it; viviana.negro@polito.it



BioRECAST Consortium Partners



This project has received funding from the European Union's funding programme "The Research Fund for Coal and Steel" under grant agreement No 101112601. Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or European Research Executive Agency. Neither the European Union nor the granting authority can be held responsible for them.



This project has received funding from the European Union's funding programme "The Research Fund for Coal and Steel" under grant agreement No 101112601. Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or European Research Executive Agency. Neither the European Union nor the granting authority can be held responsible for them.

Figure 15: BioRECAST first press release

3.5.3 BioRECAST Flyer

BioRECAST project materials are produced to inform and communicate the project's progress to stakeholders. Depending on partner needs and the events attended, project materials are created and will be updated as the project advances. See the project flyer below (Figure 16). Distributing these materials electronically is prioritised over physical distribution, taking environmental concerns into account and considering the event and target stakeholder group.

BioRECAST

BIObased RESidues Conversion to Advanced fuels for sustainable STEEL production

What is BioRECAST?
Research Fund for Coal and Steel co-funded BioRECAST proposes a "New and improved steelmaking technique", reusing EAF waste-heat for the on-site conversion of residual biomass into bio-coal and sustainable bioenergy, to be used as alternative sustainable fuels for steelmaking process, increasing the sustainability of EAF process.

BioRECAST Objective
One of the main factors influencing the sustainability of the steel making processes is the intensive use of fossil coal as an energy and carbon source. The innovative BioRECAST project aims to assess and validate the application of residual organic waste as alternative sources to produce bio-coal and coal gases for steel making processes, fostering the whole sector decarbonization.

BioRECAST Innovation
The project pathway towards the achievement of this goal is based on two innovative solutions:
1. The production of bio-coal from residual biomass streams of suitable quality to be used as coal substitute in EAF steelmaking processes;
2. The valorisation of EAF hot flue gases to supply the thermal energy required for the pyrolysis process, enabling the use of the pyrolysis gases (Pyrogases) as renewable energy source in the steel sector.
3. Assessment of best available solution for pyro-gas valorization in the steel making company.

Partners
POLITECNICO DI TORINO, POLITECNICO MILANO 1863, RE-CORD, sidenor, ACCIAIERIE DI CALVISANO, WIP RENEWABLE ENERGIES, RINA, HTT.

Project Dissemination & Communication
WIP Renewable Energies, Germany
Olgu Birgi olgu.birgi@wip-munich.de
Rainer Janssen rainer.janssen@wip-munich.de

Project Coordinator
Politecnico di Torino, Italy
David Chiaramonti david.chiaramonti@polito.it
Viviana Negro viviana.negro@polito.it

www.biorecast.eu
Follow us to stay tuned! [in](#) [X](#)

The BioRECAST project has received funding from the European Union's funding programme "Research Fund for Coal and Steel" under grant agreement No 101112601. Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or European Research Executive Agency. Neither the European Union nor the granting authority can be held responsible for them.

Figure 16: BioRECAST flyer

3.5.4 Scientific Publications

The project outcomes will be published in international scientific and technical literature and/or scientific open access repositories. Scientific publications are an effective tool to reach the research and academic target groups and to foster collaboration and further engagement opportunities with these audiences. The highest-impact open access journals relevant to the scientific disciplines involved will be identified, and the opportunity for open access publication will be carefully assessed. Additionally, results will be presented at relevant international conferences, workshops, and other events through oral and poster presentations, which will further enhance stakeholder engagement.

So far, no scientific publications have been made apart from conference proceedings (see figure 17); however, publication activities will accelerate towards the end of the project as more concrete results emerge after all work packages are completed.

Paper details	
Title:	Hard-to-abate? The Biorecast Project for the Decarbonization of Steel Sector
Author(s):	Riorda, A., Chiaramonti, D., Negro, V.
Document(s):	 Slide presentation Download FREE pdf
Keywords:	industrial scale application, biochar, integration
Topic:	Biomass Conversion to Bio-based Products and Chemicals
Subtopic:	Co-production of biofuels and biochemicals
Event:	32nd European Biomass Conference and Exhibition
Session:	6BO.11.4
ISBN:	978-88-89407-24-0
Price:	FREE

Figure 17: BioRECAST presentation at EUBCE 2024 conference proceeding

4 Conclusion

Until month 20 of the BioRECAST project, a strong stakeholder engagement strategy has been followed, which will become even more intense during the second half of the project with the biannual webinar series, BioRECAST workshops, events, publications, and in-person attendance at conferences and other related events. To engage stakeholders in a more organised way, target stakeholders will be continuously identified and updated with the help of consortium members and contacted by the most relevant project partner to increase the chances of positive response. At the same time, the best methods and channels to approach stakeholders will be determined, and various engagement strategies will be used to onboard the right target stakeholders.

Attention to data privacy is being given and will continue to be given. The stakeholder contact database is not shared with any third parties, and participant consent is always obtained for any webinar or workshop involving video recording.