

H2020-SC5-2018-2: PLASTICS TO BE CLEANED BY SORTING AND SEPARATION OF PLASTICS AND SUBSEQUENT RECYCLING OF POLYMERS, BROMINE FLAME RETARDANTS AND ANTIMONY TRIOXIDE

D6.4 PLAST2BCLEANED STAKEHOLDER ENGAGEMENT V0.3

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TABLE OF CONTENTS

1.	Terms, definitions and abbreviated terms	5
2.	EXECUTIVE SUMMARY	6
2.1	Context of WP6	6
2.2	Objective of task 6.4	6
3	OBJECTIVES	7
4.	Overview on stakeholder's engagement actions	8
4.1	Engagement actions and stakeholders	8
AN	NEX 1: stakeholder list	16





1. TERMS, DEFINITIONS AND ABBREVIATED TERMS

Abbreviate	Abbreviated Terms						
Acronym	Definition	Acronym	Definition				
ACEA	European Automobile Manufacturers Association	BSEF	Bromine council				
EERA	European Electric Recycle Association	Cefic	European Chemical Industry Council				
EASME	European Agency for Small and Medium-size Enterprises	Eumeps	European Manufacturers of EPS				
IARC	International Automobile Recycling Conference	I2A	Internation Antimony Association				
IERC	International Electronics Recycling Congress	М	Month				
PU Europe	Manufacturers of PU	SE	Stakeholder Engagement				
PRE	Plastics Recycling Europe	KPI	Key Performance Indicator				
LPLC	Low Pop Limit Concentration	UTC	Unintentional Trace contamination				
WEEE	Waste Electric & Electronic Equipment	WP	Work Package				
POP	Persistent Organic Pollutants	SoC	Substance of Concern				
P2BC	Plastics2BCleaned	EV	Electronic Vehicles				
WEEE	Waste of Electrical and Electronic Equipment	B&C	Building and construction				
EEE	Electrical and Electronic Equipment	OEM	Original Equipment Manufacturer				
UTC	Unintentional Trace Concentration	LPLC	Low POP Limit Concentration				
B&C	Building and Construction	CEN/CE NELEC,	The European Committee for Standardisation (CEN) and the European Committe for Electro technical standardisation (CENELEC)				





2. EXECUTIVE SUMMARY

This document is the PLAST2bCLEANED project's (contract no. 821087) deliverable D6.4 Stakeholder Engagement (M57), led by ICL. Throughout this document, a complete description of the activities carried out during the months 1 (M1)-until M 57 in terms of Stakeholder Engagement (SE) will be further explained.

All PLAST2bCLEANED partners contributed to SE activities in line with the aims and goals of the plan.

2.1 CONTEXT OF WP6

The objectives of the Work Package 6 (WP6) are:

- To enable potential future exploitation of the results to their full potential by engaging the relevant stakeholder to inform them about the outcome and relevance of the PLAST2bCLEANED project.
- To ensure that the findings of the project are widely communicated to the relevant stakeholders like recyclers, OEM manufactures in EV, B&C and E&E and end WEEE users.
- To document undertaken and proposed SE activities.
- To ensure the project results reach the relevant stakeholders and value chain who will use and implement them.

2.2 OBJECTIVE OF TASK 6.4

Project's Grant Agreement of task deliverable D6.4 is to provide stakeholder engagement actions.

A detailed overview of the SE outlining the project's target audiences, and strategies for engaging the stakeholders is produced in alignment with project deliverables D6.2 and D6.3. This is the Final version of the SE – M57 (February 2024).





3 OBJECTIVES

The objective is to create awareness and an overview on stakeholder engagement including actions such as list of stakeholders, including plastics and Flame Retardant producers, WEEE recyclers and end users. Involvement of stakeholders along the value chain right from the beginning of the project to raise awareness about PLAST2bCLEANED technologies and developments.





4. OVERVIEW ON STAKEHOLDER'S ENGAGEMENT ACTIONS

4.1 ENGAGEMENT ACTIONS AND STAKEHOLDERS

During the start of the project, an extensive Excelsheet database listing the relevant stakeholders was produced with support of the PLAST2bCLEANED members. This list was uploaded to the project SharePoint and updated frequently. This stakeholder list included related industry, relevant associations, and media contacts.

It was further used in the project as a guide to communicate the activities, progress, engagement and result of the PLAST2bCLEANED project (with list of companies, associations, institutions and various organisations listed in the Annex 1.

The E&E Equipment application manufactures and its value chain were approached via different channels, both online, and offline. Social media and recycling related conferences were used to engage in interactions wherever the PLAST2bCLEANED process was presented. Examples of interactions include members from EERA and OEMs such as Philips...

The flame-retardant industry was involved during the project via BSEF and especially with focus on the development of the achieved cleaning up values of the BFRs (removal efficiency).

Via cooperation with Plastics Recycle Europe(PRE), their members were informed about the PLAST2cCLEANED progress. Moreover PLAST2bCLEANED cooperated with PRE at the European Commission Competent authorities (in June and Nov 2023) to discuss the UTC and the LPLCs at the Basel convention in Geneva April 2023.

The connection with the relevant stakeholders was further strengthened via <u>YouTube</u>, our PLAST2bCLEANED website (https://plast2bcleaned.eu/) and LinkedIn and Twitter accounts, plus the distribution of the Newsletters.

The European Chemical Industry Council (Cefic) was approached and supportive to get the dissolution purification process as a defined process in their overall recycling technologies. ICL, as a member of CEN/CENELEC, was able to inform them about this new innovative recycling technologies where POPs and SoCs are safely removed and as such the polymer can be recovered.

There were also interactions with stakeholders from other applications of the PLAST2bCLEANED technology. These are described below:





Automotive application: during the IARC2023 Geneva, a presentation was given around the process and results of the PLAST2bCLEANED process to the EV manufacturers including the involved recycler partners.

Building and Construction: during several meetings with Eumeps and PU Europe, an update was given about the progress of the PLAST2bCLEANED project.

To engage with the authorities, in several personal discussions during the European Competent authority meetings the PLAST2bCLEANED project was explained including the challenges of the changing of legislation like LPLC and UTC.

All additional stakeholder engagement activities of the PLAST2bCLEANED communication and dissemination team can be found in chapter 6.2 and 6.3.

During the first 18 months of the project, the different PLAST2bCLEANED members have attended 12 events to disseminate the project to external audiences. More than 100 flyers have been distributed and PLAST2bCLEANED has reached more than 1,000 stakeholders.

As apparent from the text above, among these stakeholders, PLAST2bCLEANED has mainly focused in reaching the chemical and polymer industries, as well as policymakers.

Below, the complete list of events attended in Period 1 (P1) and the partner responsible for the action. More information can be found in the dissemination tables saved on the project SharePoint.

- Kunststoffen 2019- Coolrec
- FRPM 2019 ICL Group
- European Congress of Chemical Engineering 2019 -TNO
- Workshop CEN / CENELEC 2019 Coolrec
- Fire Resistance in Plastics 2019 ICL Group & Campine
- EIES 2019 TNO
- IERC 2022 ICL Group
- IARC 2021 ICL Group
- Plastics Congress S3 2020 TNO
- EMPACK 2020 TNO
- E-Waste World Virtual Summit 2020 TNO
- Webinar Don't waste it Solving the dark side of today's plastic 2021 TNO

PLAST2bCLEANED also interacted with other similar EU initiatives by the end of the project. PLAST2bCLEANED has established collaborations with the following projects and





organisations: PureNano, CREATOR, Circular Flooring, React, Remadyl, Nontox, EPS Sure, PolyStyreneLoop, LIFEPlasPlus, Plastics Circularity Multiplier.

As part of the Horizon Results Booster activities, PLAST2bCLEANED led a webinar to disseminate the project goals and progress of the five projects working together as a group. 124 participants from 25 different countries registered for the venue, 74 of them finally attending.



Figure 1: PLAST2bCLEANED presentation during the horizon booster webinar

As part of its clustering activities, PLAST2bCLEANED participated at the <u>NONTOX project</u> <u>final conference</u> presenting PLAST2bCLEANED's latest updates, spoke at the <u>webinar</u> entitled *Boosting Plastics Recycling* organised by the EU projects PRIMUS and CREATOR, as well as was part of the <u>Processes4Planet forum 2023</u>. Likewise, together with other initiatives, PLAST2bCLEANED attended the <u>InnovationForum4Plastics</u> workshop in Brussels in 2023, as part of the upscaling solutions timeslot.

A section on the website was opened to offer more information on those related initiatives. For instance, a joint webinar organized by CREATOR and PLAST2bCLEANED was highlighted. Joint meetings with the rest of the projects have been held. Lein Tange from ICL Group is a member of the advisory board of Nontox. Coolrec is also involved in this project and was involved in looking for synergies among both projects. Input from PolyStyreneLoop economics was taken into account where-ever applicable to PLAST2bCLEANED..





During M19-M36 of the project, the different PLAST2bCLEANED members have attended 13 events to disseminate the project to external audiences. More than 200 flyers have been distributed and PLAST2bCLEANED has reached more than 700 stakeholders.

Also during Period 2 (P2), PLAST2bCLEANED has mainly focused on reaching stakeholders from the chemical and polymer industries, as well as policymakers.

Below, the complete list of events attended from P2 and the partner responsible for the action. More information can be found on the dissemination tables (Annex 2 of the Third Communication and Dissemination Plan).

- Plastics Recycling Show Europe 2021 Coolrec
- EASME workshop 2021 ALL
- AMI Fire Resistance in Plastics 2022 ICL Group
- Innovatieexpo 2021 TNO
- DECHEMA. Annual meeting of the ProcessNet specialist groups Fraunhofer ICT
- ACHEMA 2021- Fraunhofer ICT
- IARC 2021 and 2023. ICL Group
- Infohappening 2021. Campine
- WEEE Forum 2021. TNO.
- Brightlands Polymer Days 2021. TNO
- IERC 2022, Coolrec
- World Plastic Summit 2022. TNO
- ElectroPlast 2022. ICL Group



Figure 2: From left to right, PLAST2bCLEANED at the NONTOX project general assembly meeting and PLAST2bCLEANED during the first LIFE PlasPLUS project dedicate event

In this sense, PLAST2bCLEANED has sought continuous synergies among related plastic recycling projects. Apart from the collaboration already described, PLAST2bCLEANED has participated in different cross discussions covering topics like life cycle assessment





and costing, exploitation routes and a joint contribution to the <u>public consultation on</u> <u>the regulation on persistent organic pollutants.</u> Likewise, PLAST2bCLEANED participated at the <u>LIFEPLASPLUS first dedicated event</u> and showcased as well the project advancement at the <u>NONTOX General Assembly meeting</u> on November 16, 2021 (see Figure 2).

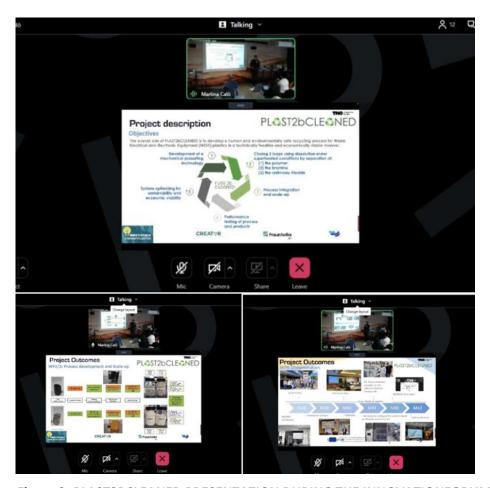


Figure 3: PLAST2BCLEANED PRESENTATION DURING THE INNOVATIONFORUM4PLASTICS

Also during Period 3 (P3), PLAST2bCLEANED's partners were attending relevant events during M37-M57 of the project, where 500 flyers were distributed and reaching out more than 2.000 stakeholders.

Below, the complete list of events attended and the partner(s) responsible for the action in P3 is shown.





Name of the event	Partn er	Date	Link
Life Cycle Assessment for Waste Manageme nt and Resource Optimisatio n conference	TNO	June 2022	https://plast2bcleaned.eu/2022/06/14/plast2bcleaned-life-cycle-assessment-waste-management-resource-optimisation-conference/
Antimony Day	Cam pine /ICL	Septe mber 2022	https://twitter.com/plast2bcleaned/status/1579713538016575 488
Valbree conference	ICL	Octob er 2022	https://plast2bcleaned.eu/2022/10/03/icl-presents- plast2bcleaned-valbree-conference/
Centexbel	Cam pine	Octob er 2022	https://www.linkedin.com/posts/plast2bcleaned_circular- sustainable-safe-activity-6990563921212411905- igOy?utm_source=share&utm_medium=member_desktop
Nontox project final event	TNO	Nove mber 2022	https://plast2bcleaned.eu/2022/11/11/plast2bcleaned- participates-nontox-project-final-event/
AMI conference	ICL	Dece mber 2022	https://plast2bcleaned.eu/2022/12/13/ami-conference-fire- resistance-plastics-hosts-plast2bcleaned/
Innovation Forum4Plast ics	All part ners	March 2023	https://www.linkedin.com/feed/update/urn:li:activity:7033761 148462112768/





ElectroPlast conference	FHF	April 2023	https://plast2bcleaned.eu/2023/04/03/plast2bcleaned-at- electro-plast-2023/
Care Innovation	Gaik er	May 2023	https://plast2bcleaned.eu/2023/05/16/plast2bcleaned- attended-care-innovation-2023/
ACLIMA	Gaik er	May 2023	https://plast2bcleaned.eu/2023/05/22/aclima-host- plast2bcleaned-at-their-technology-pills-session/
Plastics Recycling Show Europe	Cool	May 2023	https://plast2bcleaned.eu/2023/05/29/plast2bcleaned- attends-plastics-recycling-show-europe-2023/
SETAC Europe	FHF	June 2023	https://plast2bcleaned.eu/2023/06/12/plast2bcleaned- setac-europe-annual-meeting/
Boosting plastics recycling	Cool rec / ICL	June 2023	https://plast2bcleaned.eu/2023/06/26/coolrec-and-icl- group-plast2bcleaned-partners-project-attended-the- boosting-plastics-recycling-webinar/
FRPM conference	ICL	July 2023	https://plast2bcleaned.eu/2023/07/17/icl-group- presentsplast2bcleaned-at-the-frpm23-conference/
Life-cycle manageme nt conference	TNO	Septe mber 2023	https://plast2bcleaned.eu/2023/09/10/plas2bcleaned-at-the- lcm-2023/
Processes4P lanet Forum	TNO	Septe mber 2023	https://plast2bcleaned.eu/2023/09/26/plast2bcleaned- poster-processes4plater/

Likewise, during this period P3 PLAST2Bcleaned has led the organization of two events, one as part of the IERC conference, as well as its final webinar. (Complete information can be found in the table below).





Name of the event	Partner	Date	Link
IERC conference	All partners	January 2024	https://plast2bcleaned.eu/2024/01/22/p2bc-ierc- 2024/
Final webinar (online)	All partners	February 2024	https://us06web.zoom.us/webinar/register/WN_V WjnQlBqR9eXRHNZALq0zg#/registration



Figure 3: PLAST2bCLEANED's final webinar

By presenting PLAST2bCLEANED at many events in all 57 months to the relevant stakeholders, the recycling project is well presented and the value chain informed about the innovative technologies to handle WEEE plastics containing SoC plus contaminants, and finally being able to have an improved innovative technology to recycle the polymer, antimony and bromine while the SoC are removed.





ANNEX 1: STAKEHOLDER LIST

Table 1 - List of stakeholders - does not contain contact person name, surname, e-mail or phone number. More complete list can be found under excel database itself:

TABLE 1 - LIST OF STAKEHOLDERS

ORGANIZATION
ASEA
CEN / CENELEC
European Plastics Converters EuPC
Plastics Recyclers Europe
European Energy Research Alliance EERA
FEAD Fédération Européenne des Activités de la Dépollution et de l'Environnement
EURIC
NRK
GO FOR CYCLE COBEREC
FEDEREC
BVSE
EIT RAW MATERIALS
CRM GROUP
BSEF
KARLSRUHE INSTITUTE OF TECHNology
Polymer Degradation Discussion Group
ECP4
Polymer Processing Society
SPE Composites Division
Circular Economy Club
APPLiA
European Recycling Platform
ElSevier
Springer
Recycling Magazine
Plasticos y caucho
Chemical engineering
Renewable Energy Focus
Renewable Energy Magazine
Renewable Energy Wolrd Magazine





Chemical Industry Journal

Chemistry world

Chemicals technology

Plastics Business

European Plastic Product Manufacturer

Plastics & Rubber World

Plastics Today

Plastics Technology

PlasticsEurope

Chemical industry journal

European Council of Vinyl Manufacturers (ECVM) / VINYLPLUS

Polymer Processing Society

Essenscia Polymatters

BAP - Bulgarian Association Polymers

Croatian Chamber of Commerce

Association of Chemical Industry of the Czech Republic

Plastindustrien

Finnish Plastics Industries Federation

Association Hellenic Plastics Industries (AHPI)

Hungarian Plastics Association

Plastics Industries Association (P.I.A.)

Federation of Norwegian Process Ind. (PIL)

Polish Chamber of Chemical Industry

Associação Portuguesa da Indústria de Plásticos (APIP)

ASPAPLAST - the Romanian Plastics Processor Employer's Assocition

Association of Chemical and Pharmaceutical Industry of the Slovak Republic

Chemical & Rubber Association (CRA)

Spanish Confederation of Plastics Industry (ANAIP)

Plast- & Kemiföretagen (The Swedish Plastics & Chemicals Federation)

KUNSTSTOFF.swiss

Turkish Plastics Industry Foundation (PAGEV)

British Plastics Federation (B.P.F.)

Chemistry Australia National Office

Canadian Plastics Industry Association

Association of International Chemical Manufacturers (AICM)

China Plastics Processing Industry Association (CPPIA)

Malasian Plastics Industry





Plastics Federation of South Africa antimony association iza goqcircle: Belgian waste and recycling association ovam: flemish governement dpi: Dutch Polymer Institute ISPT: Institute for Sustainable Process Technology Duurzaam bedrijfsleven AfvalOnline Cefic MPM Environment Intelligence GmbH KU Leuven CIRC-PACK CIRCULAR FLOORING CREATOR DECOAT DEMETO FiberEUse EASME HARMONI iCAREPLAST ISOPREP Multicycle Multicycle Multicycle Montox PLASTICIRCLE PolyCE POLYNSPIRE PUReSmart REMADYL RepairaD SMARTFAN TERMINUS	Federation of Philippine Industries, Inc.
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