



# WASTE2COAG

Brine and Metal Wastes Valorisation to Produce  
Coagulants for Wastewater Treatment

## 3rd Newsletter

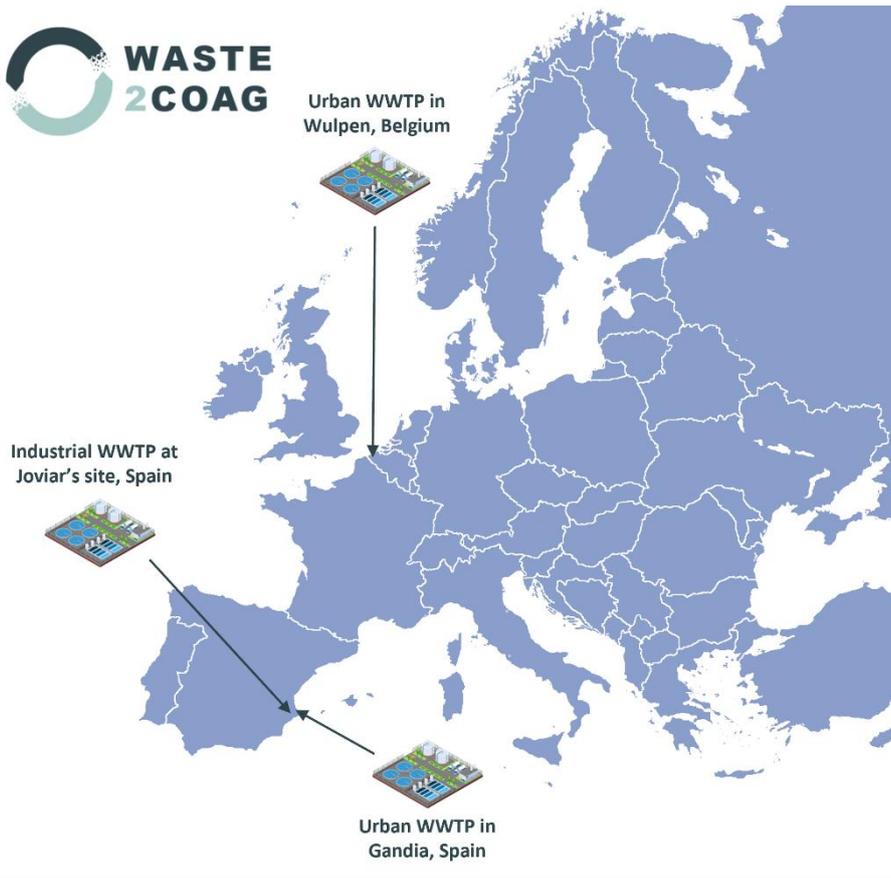
***Welcome to the 3<sup>rd</sup> LIFE Waste2Coag newsletter where we will be presenting the project progress over the past year***

LIFE Waste2Coag is a European funded project under the LIFE programme (GA no LIFE20 ENV/ES/000430) which aims to demonstrate an innovative and cost-efficient technology, the **Electrolytic System (ELS)**, based on the **electrolysis of brines to produce coagulants for the removal of pollutants in urban and industrial wastewater**.

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## Technical Updates

Within the LIFE Waste2Coag project there are **three demonstration sites: two urban wastewater treatment plants (WWTPs)**, one in Gandia (Spain) operated by Global Omnium (GOMSL), and one in Wulpen (Belgium) operated by Aquafin NV (AQUAFIN), and **one industrial wastewater treatment plant** at the production site of project partner Creaciones Joviar (JOVIAR) in Ibi (Spain). The brines being processed at these three sites differ in origin and conductivity, allowing the project consortium to validate the ELS with different operational conditions and test the coagulants with different types of wastewater.



## JOVIAR Demonstration Trial

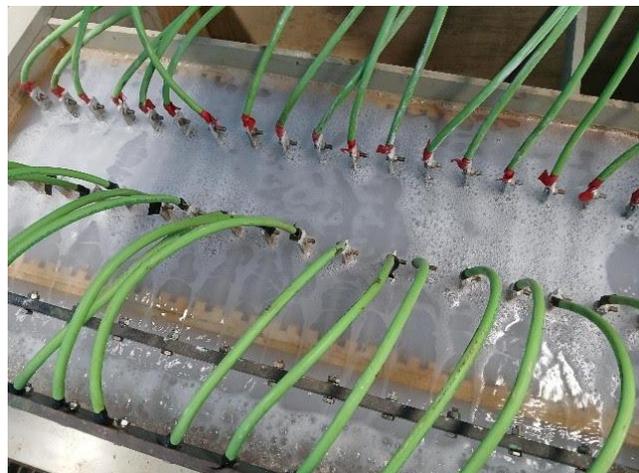
Over the second half of 2024, the ELS technology was installed by project partners at JOVIAR's industrial WWTP where **aluminium-based and iron-based coagulants** were produced, by valorising brines generated by demineralisation processes. These coagulants **eliminated the pollutants** in the industrial wastewater, enabling JOVIAR to continue **complying with legal discharge limits** and **reducing operational cost** by avoiding purchasing conventional coagulants.



After the successful operation of the ELS technology at JOVIAR's industrial WWTP, at the beginning of 2025 the ELS prototype was moved to Gandia (Spain) for the first validation trial in a municipal setting in a WWTP managed by GOMSL.

## Gandia Demonstration Trial

Brines received in Gandia WWTP were used as electrolyte in the ELS prototype with **aluminium-based electrodes** to obtain coagulants with a metal concentration of **1000 mgAl/L**. The coagulants were previously validated through jar-test, and when applied to urban wastewater coming from the primary clarifier, they were proved to be **effective in removing pollutants**. The validation was carried out in a small WWTP unit treating around 1 m<sup>3</sup>/h of wastewater.



These results will support the validation of the coagulant efficiency in the next demonstration study: a full-scale municipal WWTP in Wulpen (Belgium), managed by AQUAFIN.

Check out the **video** on the Gandia WWTP demonstration trial by Lucía López from GOMSL.



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## Partners Collaboration

### 1<sup>st</sup> Innovation Workshop

On 26 March 2025, the **1<sup>st</sup> Innovation Workshop** of the LIFE Waste2Coag project was held at **AIDIMME Technology Institute** in Valencia (Spain). Co-hosted by Isle Utilities (ISLE) and AIDIMME, the event brought together over **10 key stakeholders** from industrial sectors including wastewater, metal processing, and manufacturing to explore project results from the **JOVIAR industrial case study**.

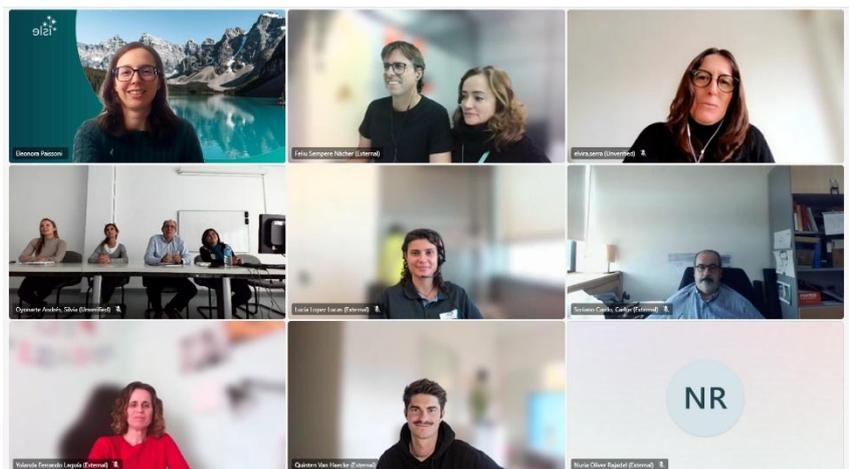
Stakeholders agreed that the project's innovations support circular economy goals and offer practical benefits like cost savings and resource recovery. The Innovation Workshop highlighted the critical role of collaboration in advancing the LIFE Waste2Coag ELS technology to market.



### [Press Release](#)

## 7<sup>th</sup> Coordination Committee Meeting

On 12 November 2025, the LIFE Waste2Coag consortium met online to discuss the latest achievements and upcoming next steps for the last six months of the project. Partners provided an update on the progress of the different project Actions and discussed the forthcoming engagement activities planned for 2026, including the 2<sup>nd</sup> Innovation Workshop.



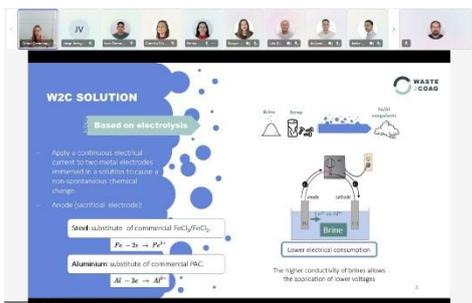
## Networking with EU projects

### Infoday LIFE Replay on End-of-waste Criteria

On 13 March 2025, Feliu Sempere from GOMSL represented the LIFE Waste2Coag project at the Infoday LIFE Replay, focused on the **end-of-waste** concept and its practical and legal implications for the sustainable future of Spanish companies.



### EU Green Week Webinar on Circular Economy



Hosted by the projects LIFE POLITEX and LIFE ANHIDRA, AIDIMME presented the LIFE Waste2Coag project at a EU Green Week Partner Event focused on **EU initiatives on recycling, waste recovering and resource use reduction during manufacturing of goods.**

[Watch full webinar](#)

### Webinar with LIFE Projects from the Valencian Region

AIDIMME participated in a webinar organised by REDIT and the Valencian Chamber of Commerce to present the **new 2025 LIFE call for proposals and the outstanding results of relevant LIFE projects.** The event was aimed at companies, public, and private



organisations that wished to submit proposals and participate in projects eligible for financial support from the programme.

## Industry Events and Conferences

### Showcasing Brine Recovery Innovations at IWA Resource Recovery Conference

GOMSL, AQUAFIN and ISLE attended the IWA Resource Recovery Conference in Leeuwarden (The Netherlands) in May 2025. The LIFE Waste2Coag consortium presented in a **keynote** the latest advancements of the ELS technology during the “Salt and Brines” session, showcasing how LIFE Waste2Coag contributes to the **circular economy in the water sector**.



[Press Release](#)

## Latest Developments in Desalination at AEDyR Congress

In June 2025, GOMSL, AIDIMME and AQUAFIN participated in the 14<sup>th</sup> International Congress of AEDyR (Spanish Association of Desalination and Reuse) in Tenerife (Spain). The event brought together experts in **desalination, reuse, and water treatment**, from companies and public institutions to discuss the latest developments in these fields. AIDIMME presented the work carried out within the LIFE Waste2Coag project in the technical session "Water Reuse and Effluent Valorization".



## Efiaqua 2025: Water Resilience to Climate Change

In November 2025, GOMSL attended Efiaqua 2025 at Feria Valencia to disseminate the LIFE Waste2Coag with **project leaflets and videos**. The Ecofira, Efiaqua, Eco Chemical Solutions, Energy Global Expo & Congress (EGEC), and Laboralia trade fairs brought together around 8,000 professionals over three days to discuss the latest solutions in circular economy, renewable energy and water management.



## What's Next?

As we are entering the last phase of the project, which will end in April 2026, project partners are focusing on the **third demonstration trial** for the validation of the ELS technology in a full-scale municipal WWTP. The progress of this third case study will allow the consortium to refine **exploitation and replication strategies**. Dissemination and engagement activities will continue, including the organisation of the 2<sup>nd</sup> Innovation Workshop, bringing together several key stakeholders to support in the definition of the post-project exploitation steps.

*To find out more about the LIFE Waste2Coag project, visit our website, and for regular updates do not forget to follow us on LinkedIn, X and YouTube.*



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