

Welcome to the **LIFE ELEKTRA**

Newsletter

Issue #02



ELEKTRA



Project funded by **LIFE**
LIFE22-CCM-ES-LIFE ELEKTRA

Over the past months LIFE ELEKTRA has advanced its mission to remove nitrates, recover resources and generate green hydrogen through electrochemical solutions tested in real operational settings. This edition summarises recent outreach, scientific progress and collaborative milestones, from major sector conferences to a high-impact journal publication and strengthened cluster partnerships.

About LIFE ELEKTRA

LIFE ELEKTRA is an EU-funded innovation project developing an integrated electrochemical denitrification system that removes nitrates from water while producing green hydrogen and recovering salts, combining technical innovation, renewable hybridisation and circular-economy principles.

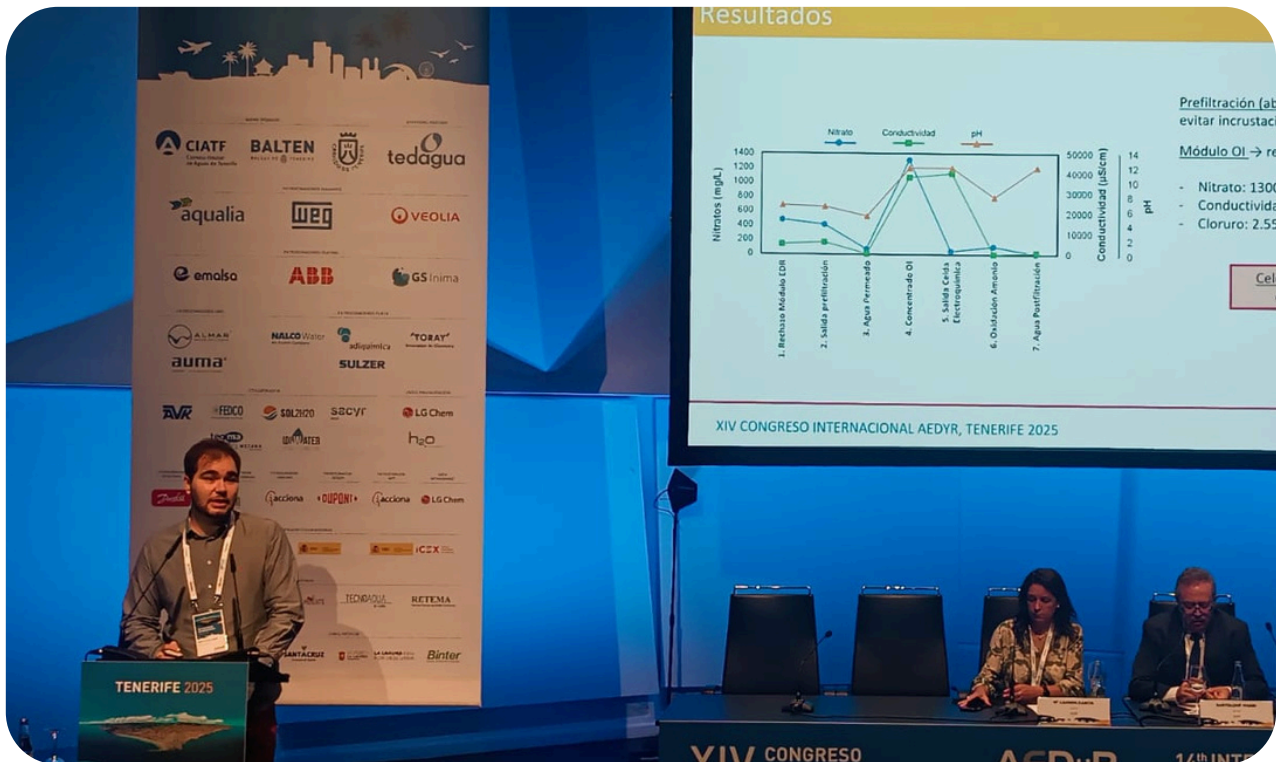
Coordinated by Aguas De Valencia and working with academic, technology and industrial partners, the project pilots solutions in Spain, the Canary Islands and Malta to prove replicability and deliver environmental, social and economic benefits.



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Participation at AEDyR 2025



LIFE ELEKTRA participated in the XIV AEDyR International Congress in Tenerife, a leading forum on desalination and reuse, where project partners shared the technical approach and pilot plans for electrochemical denitrification and circular valorisation in island and coastal contexts. The event reinforced regional interest in on-site solutions for nitrate-affected waters and helped consolidate local partnerships for pilot deployment.

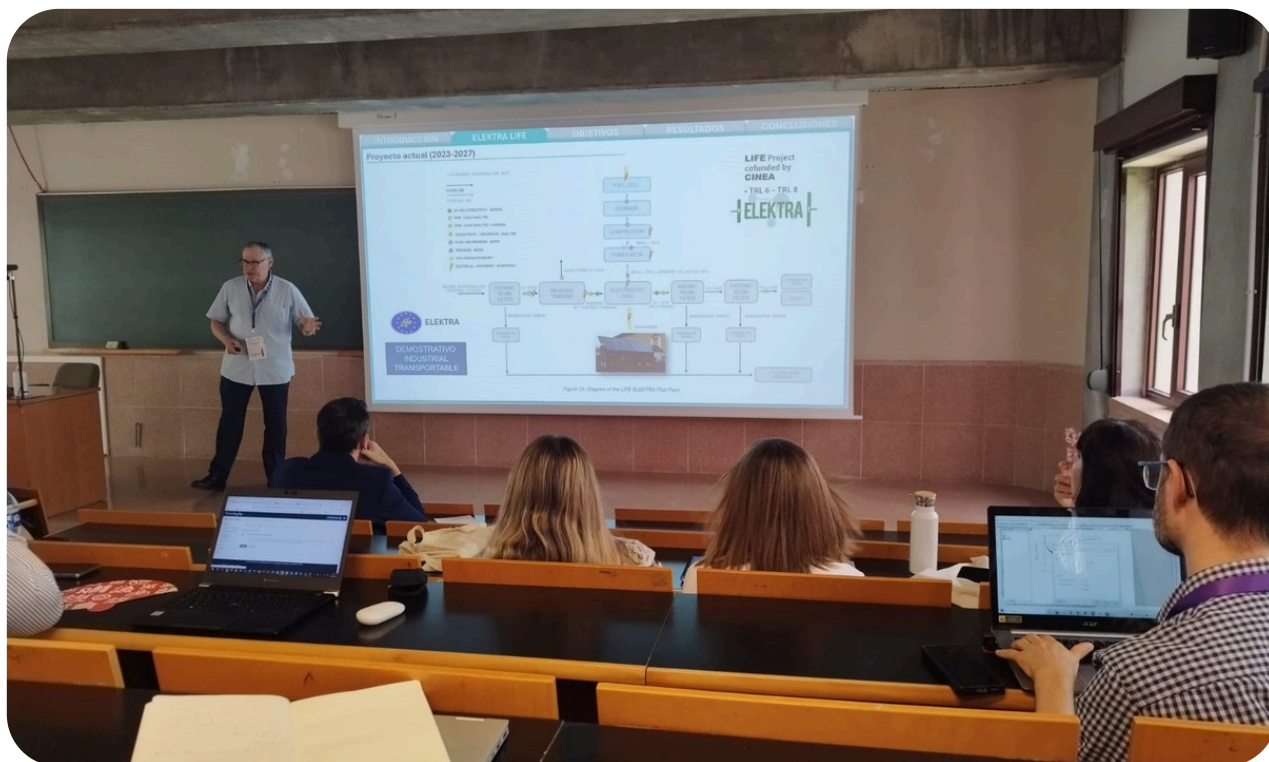
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Presenting at 45GERSEQ in Tenerife



At the 45th meeting of GERSEQ (Reunión del Grupo de Electroquímica de la Real Sociedad Española de Química), researchers belonging to Spanish partner University of Alicante presented LIFE ELEKTRA's advances in electrocatalytic materials and 3D electrode design, underlining the project's progress toward robust, scalable electrodes for nitrate electroreduction and industrial implementation.

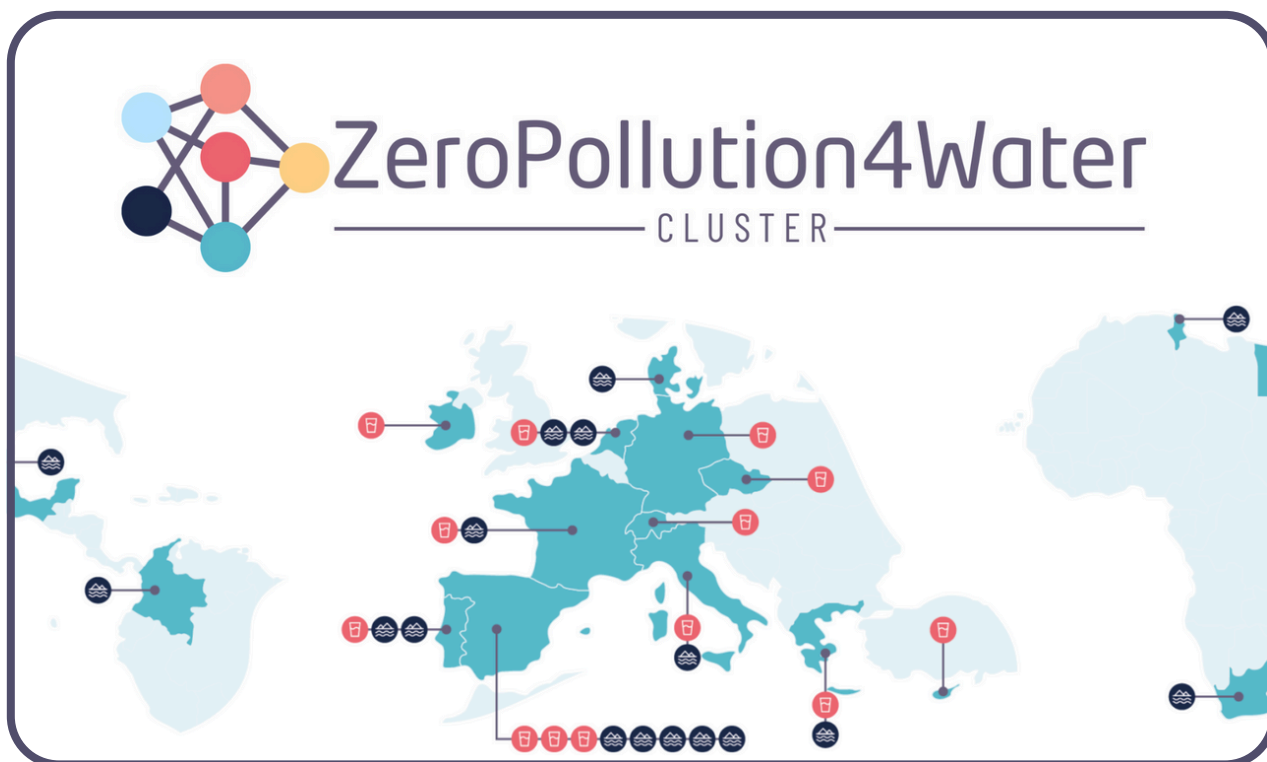
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Official Membership of the ZeroPollution4Water Cluster



We are glad to share that LIFE ELEKTRA has joined the ZeroPollution4Water Cluster, integrating its demonstration results and technical expertise into a larger network of EU projects committed to prevent water pollution and accelerate scalable treatment, monitoring and policy solutions across Europe. This membership will amplify knowledge exchange and uptake pathways for our circular water-energy innovations.

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H2OforAll Final Conference in Coimbra



Miguel Capilla from Aguas De Valencia represented LIFE ELEKTRA as an official partner of the ZP4W Cluster at the H2OforAll final event, where we contributed to cross-project dialogues on drinking-water safety and innovative treatment options. The conference was an opportunity to present ELEKTRA's pilot learnings to regulators, utilities and research partners and to strengthen ties within the ZP4W community.

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Scientific Publication in Chemical Engineering Journal



Chemical Engineering Journal

Volume 525, 1 December 2025, 169991



Design, fabrication and evaluation of a 3D $\text{Bi}_{58}\text{Sn}_{42}$ electrode for electrochemical denitrification: toward industrial implementation

Javier Sanchis-Carbonell^a, Alfonso Sáez-Fernández^b  , Miguel A. Montiel^b,
María Pedro-Monzonís^a, Vicente Montiel^b

A major scientific milestone: consortium researchers published “Design, fabrication and evaluation of a 3D $\text{Bi}_{58}\text{Sn}_{42}$ electrode for electrochemical denitrification: toward industrial implementation” in the Chemical Engineering Journal. The paper documents the electrode design and performance that underpin ELEKTRA’s pilot strategy and represents a key step in translating lab research into field-ready technology.

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Presentation at EFIAQUA 2025



At EFIAQUA 2025 in Valencia, project partners AVSA and ITE showcased LIFE ELEKTRA's practical pathway for nitrate removal, hydrogen valorisation and hybrid renewable operation, with AVSA engaging visitors at its stand and ITE presenting technical results and replication strategies to industry peers. The fair provided a targeted stage to reach utilities, municipal buyers and technology integrators.

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