PRESS RELEASE

EU battery recycling project REVITALISE heads to Stuttgart summit after busy summer of dissemination

- REVITALISE consortium partners have presented project results at three European events over the past four months, covering direct recycling, green hydrometallurgy and life cycle sustainability assessment.
- The project now looks ahead to the EV Battery Recycling Summit Europe in Stuttgart on 17 September, where Associate Professor Sulalit Bandyopadhyay will present the project's latest results.

Trondheim – [July 2026] – The REVITALISE consortium has taken its research on next-generation battery recycling to audiences across Europe this spring and summer, with appearances at a project seminar in Aveiro, the Life Cycle Innovation Conference in Berlin and the Batt-Bridge sustainability webinar. The project, which is developing processes capable of recovering 89% or more of critical materials from end-of-life batteries, will close out the year at the EV Battery Recycling Summit Europe in Stuttgart on 17 September.

"It's been a busy few months for REVITALISE. We've taken the project's story to partners and audiences in Aveiro, at LCIC in Berlin and, most recently, at the Batt-Bridge webinar in July," said ***Dr Laura Pilon, Iconiq Innovation****. "I want to thank our partners for making time for these dissemination activities while they're focused on delivering technical results in this final stretch of the project. As we head toward Stuttgart, our last major event before REVITALISE wraps up, we're looking forward to sharing how far the project has come and what it means for the wider battery recycling community."*

Seminar and consortium meeting, Aveiro – 21 to 22 May

On 21st May 2026, REVITALISE partners and the wider community of battery recycling researchers convened at the University of Aveiro for a seminar where some of the latest findings in battery recycling were reported and discussed. The seminar themes included direct recycling, lithium recovery, hydrometallurgy (and the use of novel solvents) and computational tools to support accelerate innovation. Some interesting discussions centered around the potential loss of up to 30% of electrode materials as scrap during battery production, and how direct recycling approaches can ensure those materials are brought back into production. Battery recycling is also emerging as a route to gaining increased security of supply of critical raw materials in Europe.

Technical progress within the REVITALISE project continues to move forward, and with only a few months remaining in the project, we look forward to sharing details of our final outcomes later in the year. For a preview of some our results, you can read our latest open access scientific publications:

- From NTNU: "Selective lithium extraction from acid chloride leachates of spent batteries" https://doi.org/10.1038/s41598-026-43332-y

- From Eurecat: "Sustainable strategies for the recycling of sodium-ion battery cathodes using organic acids" https://doi.org/10.1002/bte2.70082

Life Cycle Innovation Conference, Berlin – 1 to 3 July

The Life Cycle Innovation Conference (LCIC) in Berlin offers an opportunity for life cycle analysis practitioners to come together to "think in creative ways about how to foster sustainability efforts around

the world and link these to innovation processes". To achieve this goal, the conference programme is highly interactive and offers the opportunity to share best practice and new ideas.

REVITALISE contributed to the "Safeguarding Sustainability in Battery Recycling" workshop at this conference, which was hosted jointly by Violeta Vargas Parra (Eurecat, REVITALISE), Professor Guido Sonnemann (University of Bordeaux, ReUse) and Andreas Bittner (CellCircle, ReUse). The session opened with an introduction to the aims of the projects involved, before turning to how each is approaching life cycle assessment methodology. The workshop closed with an interactive discussion, covering topics such as:

- The difficulty of benchmarking new recycling routes against incumbent processes when comparative data are limited, confidential, or not reported in a harmonised way;
- The scale-up gap between lab-scale results and industrial performance, particularly regarding energy use, chemical consumption, recovery yields and process efficiency;
- The debate over the most useful functional unit for comparing recycling routes, whether by mass of black mass processed, mass of recovered product, or energy capacity of the cell.

"Life cycle assessment is essential to move recycling technologies from assumptions to evidence, but research-stage assessments need transparent data, scenario-based modelling and honest communication of their limitations," said ***Violeta Vargas Parra, Eurecat****, who co-hosted the REVITALISE workshop at LCIC. "Looking ahead, we need harmonised data requirements, clearer guidance on functional units and scale-up, and practical tools that make battery recycling assessments more comparable and useful for decision-making."*

Batt-Bridge sustainability webinar – 9 July

REVITALISE also took part in the Batt-Bridge webinar on 9 July, joining five sister Horizon Europe projects, CIRCUBATT, RENOVATE, ReUse, STREAMS and HighMag, for a discussion on how to assess and communicate the sustainability of new battery recycling technologies. Violeta Vargas Parra (Eurecat), presenting for REVITALISE, argued that no single indicator captures recycling performance on its own: carbon footprint, water use and material criticality all need to be assessed together for the trade-offs between different routes to become visible. Panellists agreed that communicating this complexity is one of the sector's biggest challenges, since reporting varies from project to project with no harmonised guidance on which of the dozen or so environmental indicators matter most to a given audience. Fellow panellists described their own responses to the same problem, including STREAMS' work on a short, publicly understandable "circular fact sheet" and RENOVATE's practice of focusing feedback to technology developers around four headline impact categories rather than the full technical set.

Looking ahead: EV Battery Recycling Summit Europe, Stuttgart – 17 September

REVITALISE will exhibit at the EV Battery Recycling Summit Europe, held at the Mövenpick Hotel Stuttgart Messe & Congress on 17 September 2026, where Associate Professor Sulalit Bandyopadhyay (NTNU) will present the project's latest research results in a session titled "Closing the Loop in Battery Recycling: Integrating Direct Recycling and Hydrometallurgy for Full Material Recovery".

The session will cover:

- An overview of REVITALISE, a Horizon Europe initiative developing sustainable recycling solutions for Li-ion and Na-ion batteries;
- Key challenges in current battery recycling, including inefficiency, high cost and environmental impact;
- Advances in pre-processing, separation and delamination techniques for producing high-quality recyclable streams;
- Development of direct recycling methods to recover and recondition cathode and anode materials while preserving their structure;

- Innovative hydrometallurgical flowsheets for selective lithium recovery and efficient extraction of critical metals;
- Implementation of water remediation and closed-loop processes to minimise waste and improve sustainability;
- The overall REVITALISE process flowsheet, combining direct recycling of active materials with hydrometallurgical processes;
- Insights into process design, techno-economic and environmental assessment, and the pathway toward scalable industrial deployment.

The REVITALISE team looks forward to welcoming industry colleagues to the session and continuing the conversation afterwards.

About REVITALISE

REVITALISE is an EU-funded project developing breakthrough battery recycling technologies that recover 89% or more of critical materials from end-of-life batteries. The process combines direct recycling of active materials, greener hydrometallurgical processing and closed-loop water remediation, recovering more, wasting less and reducing the CO2 emissions associated with battery production and recycling.

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Social Media

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