



## **Introducing the STREAMS Project *Sustainable Technologies for Reducing Europe's battery raw Materials dependence***

### ***Driving Europe's Battery Independence and Sustainability***

Embarking on a groundbreaking mission, the STREAMS Project aims to revolutionise Europe's position in the battery manufacturing landscape. Funded by the Horizon Europe Programme under Grant Agreement No. 101137771, this pioneering initiative aims to strengthen the domestic battery materials supply chain, diminish Europe's reliance on imported raw materials, and boost its resilience, competitiveness, and strategic autonomy in the global battery manufacturing industry.

Over a time period of three years, STREAMS will address the critical imperative to support Europe's economic foundation, aligning it with the green and digital transitions, while reducing dependence on Critical Raw Materials (CRMs) from external sources.

Led by the AIT Austrian Institute of Technology GMBH, STREAMS addresses the European Union's challenges in sourcing critical raw materials for batteries, encompassing lithium, nickel, cobalt, and beyond. This initiative aligns closely with sustainable development goals, targeting clean energy, decent work, responsible consumption, and climate action. Positioned strategically, STREAMS contributes significantly to Europe's battery independence by pioneering sustainable technologies for raw material recovery, in accordance with the Strategic Action Plan on Batteries and proposed regulations.

To achieve its objectives effectively, STREAMS will focus on several key areas:

1. **Strengthening the domestic supply chain:** STREAMS will bolster Europe's battery materials supply chain, diminishing dependency on imported raw materials and bolstering resilience, competitiveness, and strategic autonomy in the global battery manufacturing industry.
2. **Comprehensive technological solutions:** the project will develop at least 12 innovative, flexible and scalable technologies for the sustainable production of battery-grade precursors, anode, and cathode active materials.

3. **Utilisation of diverse material streams:** STREAMS will advocate for the utilisation of various primary and secondary sources, along with recycled battery mass, to further diminish reliance on third countries.
4. **Circular models for sustainability:** by establishing circular models, manufacturing battery cells at a pilot scale, and testing according to established standards, STREAMS will identify optimal conditions for future exploitation of project results.

STREAMS stands at the forefront of Europe's efforts to secure its position in the global battery manufacturing industry while advancing sustainability and resilience objectives. Through collaboration, innovation, and commitment, we will help reshaping the future of battery technology and propel Europe towards a greener, more sustainable future!

STREAMS brings together an excellent consortium of 19 partners from 13 different countries. The consortium is composed of 5 Research centres/organisations, 4 Universities and 10 Industries & SMEs.

The consortium is well balanced and each partner has a clear role defined and brings a specific contribution along the value chain of the project.

Evolution Energy Minerals (ASX: EV1), is pleased to be providing our Chilalo graphite to the team. The project demonstrates the quality of Chilalo graphite, its suitability for batteries, and its ability to complement recovered graphite in a circular economy initiative. While our internal R&D efforts have demonstrated the success of processing Chilalo graphite into anode material using chemical purification methods, this project demonstrates the ability to use thermal purification methods with success as well.

“We are enjoying our collaboration with US and European companies and look forward to continuing milestones in this project. It is exciting to be working with innovative companies as well as important to support Europe’s position in the battery economy.” – Stacy Newstead, CEO of Downstream activities for EV1

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# STREAMS

SUSTAINABLE TECHNOLOGIES  
FOR REDUCING EUROPE'S BATTERY  
RAW MATERIALS DEPENDANCE

