

NEW ROUTES TOWARDS SUSTAINABLE REUSE & RECYCLING OF LITHIUM-ION BATTERIES (LIBS)



BATTERIES REUSE AND DIRECT PRODUCTION OF HIGH-PERFORMANCE CATHODIC AND ANODIC MATERIALS AND OTHER RAW MATERIALS FROM BATTERIES RECYCLING USING LOW- COST AND ENVIRONMENTALLY FRIENDLY TECHNOLOGIES



The RHINOCEROS project proposes novel, cost-effective, scalable and low-carbon technologies for the reuse of end-of-life LIBs or their recycling as high-performance battery materials at high recycling rates and purity.



The aim of the RHINOCEROS project is to develop and improve economically and environmentally viable routes for re-using and recycling end-of-life LIBs from electric vehicles and stationary energy storage systems. Demonstrating this sustainable process for EoL LIBs will contribute to decreasing Europe's import dependency on critical battery raw materials.

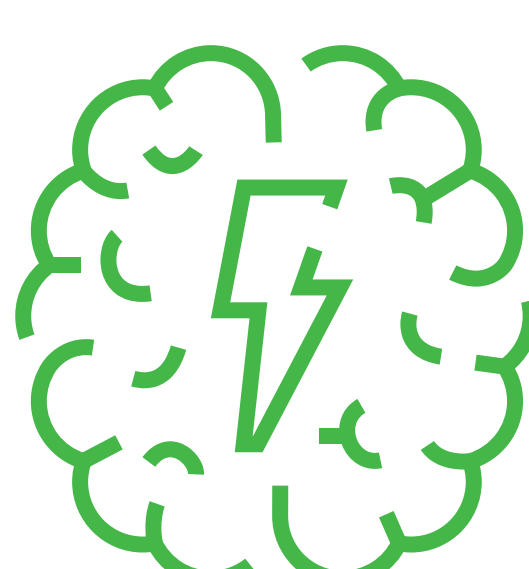


New breakthrough scientific discovery on repurposing and reusing LIBs for second-life applications;

Recycling of all the materials present in LIBs, such as metals, graphite, fluorinated compounds and polymers, active materials, etc.



Sustainable, safe, low-carbon footprint technologies;
Zero liquid waste discharge process.



Pilot recycling process which will accelerate the growth of innovative, competitive and sustainable battery recycling and manufacturing industry.

Safer processes for operators;



Less toxic waste released;
Strengthened resilience, lowered dependency on CRMs imports required by the emerging European green energy and climate strategy.



**HORIZON EUROPE
FUNDING PROGRAM**



€ 8.943.025
EU CONTRIBUTION



16
PARTNERS



9
COUNTRIES



ACCUREC



ECO Recycling

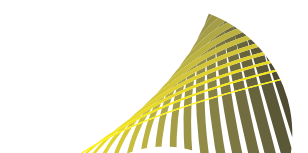
ARKEMA



LEITET
managing technologies



UiA University of Agder



FORD OTOSAN

Leverton HELM

STAY IN TOUCH

PROJECT COORDINATION



Dr. Amal Siriwardana
TECNALIA
amal.siriwardana@tecnalia.com



Álvaro Manjón Fernández
TECNALIA
alvaro.manjon@tecnalia.com



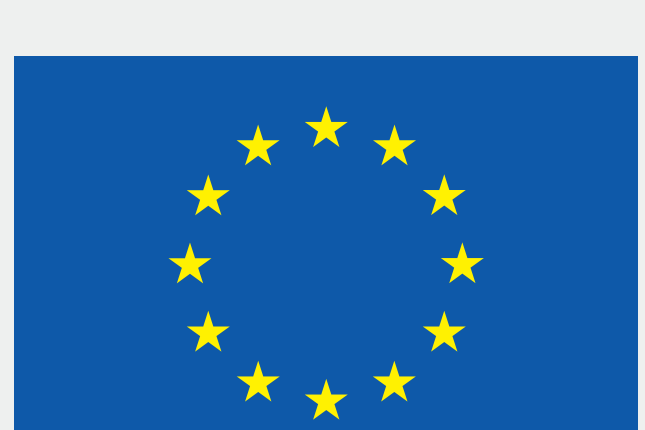
rhinoceros-project.eu

in

#rhinoceros-horizon-europe



@EuRhinoceros



Funded by the European Union under Grant Agreement No 101069685. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Climate, Infrastructure and Environment Executive Agency (CINEA). Neither the European Union nor the granting authority can be held responsible for them.