Building up strategic reserves of Lithium to ensure the green and digital transformation of the European economy

LiCORNE

Lithium recovery and battery-grade materials production from European resources

€ 6,766,313.00	48 months	16 partners	From 10 countries	Complete Li supply chain

OBJECTIVES

The LiCORNE project aims to establish the first ever Li supply chain in Europe, increasing the European Li processing and refining capacity for producing battery-grade chemicals from ores, geothermal and continental brines, tailings and off-specification cathode materials (waste).

CONCEPT

14 different ground-breaking technologies



IMPACT

Building up the competitive production of Li from European resources

LiCORNE will allow European Li to be mined, processed, and refined in the EU at a competitive cost and environmentally friendly way, and in the vicinity of gigafactories, securing therefore materials supply and reducing significantly the cost of transport and associated GHG emissions.

EXPECTED MID-TERM OUTCOMES

- Process development and validation on a wide range of feedstock to demonstrate the robustness and flexibility of innovative technologies, that are equally safe and cost-effective
- Reduced GHG emissions, increased energy efficiency, and more efficient resource use and yield
- Establishment of a unique platform built on combined knowledge and resources to produce battery-grade materials (LiOH, Li_2CO_3 or Li-metal) from European sources
- New business opportunities and models for the European industry, creating additional jobs from increased processing and refining capacity

EXPECTED LONG-TERM OUTCOMES

- Increased competitiveness of the European battery ecosystem through generated knowledge and leading-edge techs.
- Accelerated growth of innovative, competitive and sustainable battery manufacturing industry in Europe
- Increased overall sustainability and improved LCA of each segment of the battery value chain
- Development and establishment of innovative recycling network and technologies in line with the European Circular Economy Action Plan (March 2020)

STAY IN TOUCH

Project coordination
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