ABOUT US

Launched in March 2024, Li4Life is a 36-month Horizon Europe project.
The project consortium coordinated by ICAMCyL Foundation (Spain) has 18 organisations from a 7 EU countries and Serbia, one associated partner from the UK. They build a strong interdisciplinary and complementary team from academia to industry.
Li4Life is part of the BATTERY2030+ Initiative

Li4Life - novel domestic battery grade lithium carbonate value chain for green life.
HORIZON Research and Innovation Actions

Funded by the European Union

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CONTACT US

Li4LIFE EU Project

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Visit our site

Li4LIFE

Li4Life ambition is to increase the EU domestic supply of Lithium to contribute the needs of the EU battery industry.

Li4Life will develop and test new technologies for extracting and processing lithium from underutilised deposits and post-mining tailings in Europe.

The technological developments will drive innovative sustainable solutions that can be brought to the market contributing to the Green Transition.

Lithium (Li) is a fundamental raw material for the production of batteries and other technologies that enable a Green Transition, but not enough mineral is sourced from Europe.

GOALS

To support the **EU's** plans to **ecological transition**

To enable Europe to become a **major Li supplier** in the fast-growing European **battery sector**

To **reduce dependency** on Li supplies from **outside Europe**

OBJECTIVES

Li4Life aims to develop an innovative, scalable, energy efficient and environmentally friendly pilot plant for processing and refining Li from European supply.

How we get there

The Li4Life project will use samples from four European sites deposits from Spain, Czech Republic, Finland and Serbia, as well as from mining wastes.
We will define, test, and prove an efficient set of technological processes for the extraction and purification of lithium carbonate.
Strategically we will conduct market analysis,, design new business models, and ensure compliance with EU ecological framework.

How do we measure it

- Up to 100% increase in the selective extraction of Li
- 20% increase in overall recovery of metals
- Reduction of energy requirements by up to 30%
- Full water reuse
- Waste valorisation and environmentally friendly mining practices to achieve zero waste mining
- Validation process of high-grade Li_2CO_3 for batteries (99.99%)

ACTIVITIES

1 **SAMPLING**
Volume sampling of four European reference sites.

2 **MINERAL CONCENTRATE PRODUCTION**
Various processes aimed at separating the ore (the Li mineral) from other minerals present in the rock.

3 **LI-CARBONATE PRODUCTION**
Develop metallurgical methods to obtain battery grade lithium carbonate.

4 **SCALE-UP TO PILOT PLANT**
Integrate the processes in an industrial plant and estimate the economic viability of the industrial production methods.