

All the SEATBELT team wishes you a happy new year 2025



Solid-statE lithium  
metal bAttery  
wiTh in situ  
hyBrid ELecTrolyte

Newsletter n°3  
1<sup>st</sup> quarter 2025

Generate a local EU industry  
that revolves around a cost-effective,  
robust **all-solid-state Li battery**  
comprising sustainable materials by 2026.

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Solid-state lithium  
metal battery  
with in situ  
hybrid electrolyte



## GENERAL NEWS

- ≡ The D1.2 deliverable has been submitted on due time (June, 30<sup>th</sup> 2024): “Sustainability Assessment”, linked to the Work Package 1 (“Cell Target Requirements”).
- ≡ The D3.1 deliverable has been submitted on due time (August, 30<sup>th</sup> 2024): “LFMP development”, linked to the Work Package 3 (“Cathode Development”).
- ≡ A research engineer has been recruited to reinforce CNRS SEATBELT’s team in order to perform experimental analysis of the mechanical behavior of a solid-state battery mono-cell and its interfaces.

## RECENT PROGRESS: focus on WP1 – Cell Target Requirement

- ≡ Sustainability assessment (LCA/LCC/SLCA) methodology for SEATBELT product system defined.
- ≡ Most of consortium partners actively involved in data collection for LCA/LCC/SLCA purposes.
- ≡ Environmental performances of benchmark LFP cell recycling processes evaluated.

## RECENT EVENTS

- ≡ Didier Devaux from CNRS presented the SEATBELT Project and its latest breakthroughs during the BEPA workshop, held alongside the Battery Innovation Day conference in Barcelona in late November 2024.
- ≡ The #10 PGA took place onsite, at CEMEA’s in Bratislava, Slovakia in Oct. 2024.

## UPCOMING EVENTS

- ≡ Next onsite PGA meeting will be held in ÜLM (Germany) in March at ZSW ;
- ≡ Irune Villaluenga (POLYMAT) will speak during the **SOLID4B** cluster’s webinar about the academic research of polymer materials.

## #10 PGA at CEMEA, Bratislava (SK)



## ENGINE 2025 winter school organized by CNRS & POLYMAT

The 4th edition of ENGINE winter school offers training in **electrochemistry for energy applications** across all relevant **length scales** (from local (nm) to bulk (cm)) with a focus on **recycling**. This training will be based on **courses and lectures**, and will be punctuated by **visits to the ESF** (synchrotron X-ray) and **ILL** (neutron scattering) facilities.

**Date & Location:** Feb, 24-28, 2025 - Grenoble



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