Wallonie

BatFactory

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Reinventing Energy Storage with Sustainable Batteries

Coordinated by UNamur, BatFactory brings together five universities and three research centers to develop high-performance, sustainable batteries for stationary electricity storage, energy communities, and residential applications. The project covers the entire value chain, from the design and functionalization of electrode materials to the manufacturing of instrumented battery cells and packs. It combines new materials, pilot-scale manufacturing processes, sensors, and intelligent management systems to improve battery performance, safety, and lifespan.The research focuses in particular on water-based formulations, plasma treatments, and the use of bio-based or recycled resources to reduce environmental impact and promote circularity. Ecodesign is supported by life cycle assessment, while standardized testing and advanced characterization techniques, including in situ NMR, are used to evaluate the solutions developed.With the support of the MecaTech cluster, BatFactory aims to establish a competitive battery industry in Wallonia, accelerate technology transfer to companies, and support the energy transition.ICS is involved in the project as an advisor and active contributor.

Start and end date: 01/2024 – 06/2027 (prolongation incluse)

Project partners		Funds	Amount (€)	Year
UNamur Coordinateur	UNIVERSITÉ DE NAMUR	Région Wallonne Plan de relance de la Wallonie (PRW) 100%	4 983 896,80	2023
UCLouvain	UCLouvain		824 448,80	2023
ULB	ULB UNIVERSITÉ LIBRE DE BRUXELLES		824 208,45	2023
ULiège	LIÈGE université		2 151 854,86	2023
UMONS	UMONS Université de Mons		915 061,99	2023
CRM	CRM GROUP	PRW (75%) + Fonds propres	588 333,53	2023
Materia Nova	MATERIA NOVA Materials R&D Center		1 080 964,13	2023
Cenaero	Cenaero		591 683,49	2023

Budget total: 11 960 452,05 €, with 11 395 206,76 € funded by the Walloon Region