

Partnership focused on the second life of electric vehicle batteries launched between Entech, Stellantis, Talendi and Bretagne Sud University

Quimper, 7 June 2022 – Entech (FR0014004362 - ALESE), the technology company specialised in smart renewable energy storage and management, is announcing, as the consortium coordinator, the launch of the Automotive Batteries Reuse (ABR) Project, supported by the Brittany Region, Quimper Bretagne Occidentale and Rennes Métropole. The consortium, bringing together Stellantis, Talendi, Université Bretagne Sud (Institut de Recherche Dupuy de Lôme, UMR CNRS 6027) and Entech, will be working to develop second life storage solutions with automotive batteries.

“Developing a dedicated sector and innovations around the decommissioning of automotive batteries (diagnostics, security, data, etc.) and offering solutions to optimise the second life of batteries”. This is the objective set out with the ABR Project, led by Entech, in association with Stellantis, Talendi and Université Bretagne Sud (Institut de Recherche Dupuy de Lôme, UMR CNRS 6027).

The project will receive €495.8k of funding over two years from the Brittany Region, Quimper Bretagne Occidentale and Rennes Métropole. The ABR Project has also been awarded a label by the ID4CAR accelerator, recognising the project’s innovative features and the relevance of the economic outlets being looked into.

For Christopher Franquet, Entech’s Chairman and CEO: *“The second life of electric vehicle batteries could represent a vast market, but there are still a number of obstacles that need to be cleared for this market to be economically viable. Entech is one of the players with the capabilities needed to develop the new technologies that will enable this sector to develop and grow”.*

The electric vehicle market is expected to continue growing over the coming years, with an increasingly wide range of vehicles available from manufacturers and the widespread deployment of charge points nationwide. Several scenarios support this trend for growth in electric mobility, which could represent 80% of the European market by 2050. This strong development of electric vehicles needs to be accompanied by a review looking at the end-of-life of batteries. While the lifespan of a Lithium-ion battery for mobility is around 12 years, it then retains up to 75% of its storage capacity for stationary use.

Based on these parameters, the second life batteries available in 2030 could represent a total capacity of 140 GWh. Alongside this, the market for stationary storage to meet network requirements is also continuing to progress. By 2030, it is expected to reach 160 GWh/year, with 35 GWh/year in Europe. Second life storage solutions could therefore cover a large part of the stationary market’s needs.

A storage sector focused on second life batteries could be developed, subject to the rollout of innovations around the dismantling of automotive batteries and solutions to optimise the second life of batteries.

This is the goal with the ABR Project, led by Entech, which will make it possible to develop several aspects relating to second life batteries:

- The market positioning of the systems: What economic model for creating value with second life batteries? What business model to adopt? What is the outlook for the coming years?
- The management of packs at the end of their first life on board vehicles: improving diagnostics in order to effectively allocate batteries for a second life or for recycling;

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- The management of packs during their second life, on stationary storage applications, with:
 - A storage container directly incorporating packs as they have been removed from vehicles, for charge transfers or network services
 - A storage unit for recharging “small-scale mobility” or the residential sector, in partnership with Talendi for decommissioning packs into modules
 - The development of a digital twin for containers to assess / predict battery health;

The second life packs will be supplied to Entech and Talendi by Stellantis as part of this project, in line with Stellantis’ desire to transition to a virtuous circle for the management of its used batteries, developing adapted solutions in partnership with the consortium.

The ABR Project follows on from two previous Entech projects that have already focused on second life aspects with the integration of Stellantis packs into container-based storage systems.

About Entech

Faced with the technological challenges posed by the strong growth of new energies within the energy mix, Entech enables the massive integration of renewable energies and access to energy thanks to storage and electrical conversion solutions controlled by intelligent software systems.

Builder of the new energies, Entech develops, builds and operates production plants and storage systems – batteries or hydrogen – on-grid or off-grid. Founded in Quimper in 2016, Entech has already completed more than 250 projects worldwide and today employs 93 people.

Selected in 2021 by “La French Tech” in its Green20 programme and recognised by numerous awards for its capacity to innovate in supporting the energy transition, Entech is committed to acting on a daily basis as a responsible company, not only from an environmental point of view but also from a social and societal one. For more information: <https://entech-se.com/>

Contact: Calyptus

Mathieu Calleux / Maisie Mouret

entech@calyptus.net

+33 (0)1 53 65 37 90 / 37 91

About Stellantis

Stellantis N.V. (NYSE / MTA / Euronext Paris: STLA) is one of the world’s leading automakers and a mobility provider. Its storied and iconic brands embody the passion of their visionary founders and today’s customers in their innovative products and services, including Abarth, Alfa Romeo, Chrysler, Citroën, Dodge, DS Automobiles, Fiat, Jeep®, Lancia, Maserati, Opel, Peugeot, Ram, Vauxhall, Free2move and Leasys.

Powered by our diversity, we lead the way the world moves – aspiring to become the greatest sustainable mobility tech company, not the biggest, while creating added value for all stakeholders as well as the communities in which it operates.

For more information, visit www.stellantis.com.

About Talendi

Talendi is a key French Adapted Company (“Entreprise Adaptée”), certified ISO 9001, EN 9100 and committed to exemplary CSR. The mastery of its numerous skills in cabling, industrial assembly, mechanics and also in document dematerialisation and digital printing enables it to work in sectors that are as demanding as they are diversified (railways, automobile, aeronautics, agriculture, renewable energies, tertiary sector, etc.). Talendi is also committed to the development of local services associated with the circular economy.

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Talendi's participation in the ABR Project is fully in line with its diversification strategy. As an integrator/assembler, the company brings its resources to bear on the production of energy storage cabinets dedicated to mobility or tertiary recharging applications.

Founded in 1975, Talendi currently employs 550 people, including 420 disabled people in its Adapted Company (EA) or one of its 2 ESATs (Etablissements ou Services d'Accompagnement par le Travail).

Talendi is a social economy company, recognised as being in the public interest and has been awarded the "Industry of the Future" label.

For more information: <https://www.talendi.com/>

About Université Bretagne Sud, (Dupuy de Lôme Research Institute, UMR CNRS 6027)

As an enterprising and committed university, Université Bretagne Sud is developing 4 major work priorities: Sea & Coastal, Industry of the Future, Environment, Health & Disability, Cyber & Data Intelligence, representing 4 innovation, research and training ecosystems. The University has chosen to position itself in these areas of differentiation linked to specific territorial characteristics and unprecedented academic roots.

Within the framework of the ABR project, the UBS, represented by the Dupuy de Lôme Research Institute, a CNRS laboratory specialising in materials and marine engineering, will be involved in the diagnosis of batteries at the end of their first life cycle, and in the development of digital twin algorithms for the second life cycle application in stationary storage.

More information: <https://www.irdl.fr/>