



Press release 7/2020

EUROPEAN NEWCONTROL PROJECT: FLASH BATTERY IS AT THE FRONT OF THE PACK.

Flash Battery is part of a pool including research organisations, universities, and companies from multiple European countries, with the shared goal of developing advanced control systems for the technologies facilitating electric mobility

Sant'Ilario d'Enza (RE), 23 October 2020 – Flash Battery is forging ahead uninterrupted with the development of a **technologically advanced high-voltage battery pack** as part of the European NewControl project.

The synergy created among the diverse members of the Flash Battery R&D department (HW and FW developers, customisers and designers) led by Technical Director and Co-Founder **Alan Pastorelli**, has given rise to the customisation of the proprietary BMS "**Battery Management System**" and the introduction of **evolved diagnostic algorithms** able to monitor both environmental and system data. Thus the company will contribute to the realisation of the **European project NewControl**, which has among its primary objectives the creation of a stable and highly efficient propulsion system as part of an intelligent ecosystem designed from a predictive and reactive perspective.

Part of the EU Framework Programme for Research and Innovation **Horizon 2020**, the NewControl project (which will conclude in 2022) is aimed at the development of **advanced control systems** in the field of enabling technologies for **electric mobility** (autonomous driving, PowerTrain, batteries, etc.) and proposes itself in particular as a **reference point** for the **affirmation of electric and highly-automated vehicles on the market**.

"The concrete goal," explains **Marco Righi, CEO of Flash Battery**, "is to develop virtualised **platforms** for vehicular subassemblies capable of supporting **highly automated driving** (realising functions such as perception, cognition and control) to introduce the concept of mobility as a service for the next generation of highly automated vehicles."

"The project," Righi continues, "also aims to set a trajectory towards greater user acceptance of **automated control functions**, developing systems that contribute to the **safety** and **sustainability of mobility**, both on the road and in industrial settings, where intelligent modes of transport help improve **operating efficiency** as well as **reducing emissions**."

It is therefore in this context that Flash Battery is putting the finishing touches on the realisation of a high-voltage energy storage platform on which two kinds of algorithms can be developed: those for managing the state of the cells for automotive use, and those for managing energy use by utilities onboard the vehicle.

The European contribution to the NewControl project is equivalent to **11 million euros**, against an expected total investment of almost **38 million**, with substantial resources deployed by nearly **50 partners specialised in diverse fields** to form a complete value chain: from semiconductors to OEMs and sensor technology, integration and electric batteries.

Flash Battery is part of a pool including **research organisations, universities** (including those of Pisa, Modena and Reggio Emilia, Technische Universität Delft, Universidad Carlos III de Madrid, and the Politecnico di Torino) and companies from multiple European countries.



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"Within the framework of **Horizon 2020**" – underlines **Alan Pastorelli**, CTO and Co-Founder of Flash Battery – "NewControl is part of the **ECSEL** (Electronics Components and Systems for European Leadership) **programme** that uses the Joint Undertaking (JU) to finance **European industrial competitiveness** in the **field of electronic components and systems at the international level.**"

"This is how, as happened in this case, public-private partnerships are born between key players in the industrial and academic worlds, in synergy to contribute to the technological development of the European ecosystem."

This synergy will be on full display on **27 and 28 October**, the dates of the **Virtual ECA2030** – Electric, Connected and Automated Mobility for the 2030 customer, a **networking event** organised by **Mobility.E Lighthouse**.

Flash Battery will also be actively involved here, because the consortium involved in the realisation of the NewControl project has been invited to present that very initiative, as it coincides perfectly with the central theme of the conference.

As the name suggests, **it is about electrification, connectivity, and autonomous driving.**

Flash Battery srl was established in 2012. It has 56 employees and boasted a turnover of EUR 14 million in 2019. The company designs and manufactures lithium batteries for industrial machinery and electric vehicles supplied to manufacturers with medium production volumes and high customisation needs.

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