THE TEMPEST PROJECT AND THE EU-INGENIOUS CLUSTERING GROUP WILL ATTEND BATTERY INNOVATION DAYS 2024

Press Release

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- This hybrid event will take place in Barcelona on November 26 and 27, and online.
- Last year's edition attracted over 1,400 professionals from the battery industry across Europe and beyond.

Bordeaux, France – November 19, 2024. – Following three successful editions, the Battery Innovation Days (BID) are back. Some of Europe's most important Research & Innovation initiatives, including Batteries Europe, Battery 2030+ and the Batteries European Partnership Association —partnered with the Batteries 1st and 2nd IPCEIs) —are co-organizing this event at the Barceló Sants Hotel in Barcelona, Spain, on November 26-27, 2024.

TEMPEST, an EU-funded project, aims to develop and refine a new generation of safe, recyclable, lightweight, and high-performance batteries for various transportation applications by 2026. TEMPEST will participate in the Battery Innovation Days, showcasing its work at an exhibitor booth alongside other projects from the EU-INGENIOuS clustering group: BATSS, EXTENDED, NEXTBAT, and VERSAPRINT. Together, these projects focus on creating safer, more efficient, and environmentally sustainable battery solutions that will support the electrification and green transition, key to advancing the Sustainable Development Goals.

This is the fourth edition of the Battery Innovation Days (BID), an annual event hosted in a new city each year. In 2024, it will take place in Barcelona and be hosted by Acció, the Agency for Business Competitiveness, with support from the Government of Catalonia.

Battery Innovation Days offers attendees the opportunity to network with colleagues from diverse backgrounds, gain fresh insights, and stay current on emerging trends and technologies. Key topics in the battery industry will be discussed, and there will also be a Battery Young Research Award ceremony, celebrating academic excellence and honoring students advancing battery research.

TEMPEST's participation in Battery Innovation Days 2024 underscores its commitment to advancing safe, recyclable, and high-performance batteries for the future of transportation.

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TEMPEST: TEMPEST is the European Project to provide a new generation of batteries needed by Europe and its key sectors. Led by RESCOLL, TEMPEST is made up by ABEE, Fraunhofer, IAAPS, the Kemijski Institute, Tekniker, the Kaunas University of Technology, Patras, and Bath, Sustainable Innovations Europe. This project has received €3,614,902.50, is co-funded by the European Union under grant agreement 101103681 and UKRI – UK Research and Innovation under the UK government's Horizon Europe, under grant agreement 10075481.

BATSS: Guided by an innovative Safe-by-Design approach, BATSS aims to develop a cell-to-pack modular battery system concept that ensures exceptional safety and electro-thermal performance for off-road e-vehicles and semi-stationary applications. Through specific thermal, electrical, and mechanical innovations, we will meet industry standards supported by cutting-edge modelling, simulation, and predictive maintenance tools. Beyond performance, we are focused on sustainable end-of-life solutions, including modular assembly, automated disassembly, and second-life exploration. This project has received € 4 990 149,75 of funding from the European Union's Horizon Europe research and innovation programme under Grant Agreement No. 101103821.

EXTENDED: EXTENDED, a Horizon Europe project, is a collaborative effort bringing together 19 partners from 10 EU countries! Our mission is to design, develop, and validate the next-generation battery pack systems that will drive the mass-market adoption of electric vehicles and applications. EXTENDED project has received funding from the European Union's Horizon Europe research and innovation programme under Grant Agreement No 101102278.

NEXTBAT: NEXTBAT is a European project aiming to develop safe-by-design battery systems that reduce the carbon footprint of innovative battery technology and speed up transport electrification. By emphasizing recyclability throughout the production chain, the project aims to lower production costs. It focuses on creating the safest, most sustainable battery system by addressing electrical, thermal, and mechanical safety aspects, and by introducing digitalized production processes and advanced battery management techniques. The project also introduces innovative materials and processes to enhance performance, safety, and recyclability, while striving to establish new industry standards within the European battery sector. Two complementary prototypes will be manufactured as part of the project.

VERSAPRINT: VERSAPRINT is a European project aiming at bringing innovations to the battery system to tackle safety issues, enhance performances as well as decrease the cost and environmental impact. Versatile technical solutions (Building Blocks - BB) will be achieved by additive manufacturing processes and will operate from the heart of the battery system. A simulation platform and decision tool will also be implemented in order to connect the BBs to a varied range of applications such as automobile, aeronautic, waterway transport and others. The project VERSAPRINT is composed of 10 partners: CEA, LEITAT, FEV GmbH, CRF, SONACA, EFESTO, ABEE, LOMARTOV, RWTH, Plastic Omnium. This project has received 4.9 M of funding from the European Union's Horizon Europe research and innovation programme under Grant Agreement No. 101103696.

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