



TEMPEST to Showcase Next-Generation Battery Innovations at the Road Transport Research conference 2025

- TEMPEST, an EU-funded project, is advancing safe, recyclable, lightweight, and high-performance batteries for transportation applications.
- The project will present its innovative results in road transport at the 2025 RTR Conference, alongside its clustering group of four innovative EU projects focused on sustainable battery solutions.

Bordeaux, France – February 5, 2025. – [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.

Jeremy Warren, the TEMPEST project coordinator, will chair the upcoming presentation of the project at the **Road Transport Research Conference 2025 (RTR)**. This is the 8th edition of the event, highlighting results and scientific achievements of EU-funded road transport research projects. The RTR will take place from February 11 to February 13, 2025, at The EGG in Brussels.

TEMPEST will be joined by four initiatives from the **EU-INGENIOuS** clustering group: **BATSS**, **EXTENDED**, **NEXTBAT**, and **VERSAPRINT**—which will host a **key session** titled *High-performance and Safe-by-Design Next Generation Battery Systems for Road Transport Applications*, on February 11, from 4:30 to 6:45 p.m. Together, these initiatives are driving innovation in battery technologies with a shared commitment to enhancing safety, efficiency, and environmental sustainability.

For the first time, TEMPEST will be among the research projects in road transport featured at the event, sharing insights from Horizon 2020 and Horizon Europe programs. These programs address critical areas such as Green Vehicles, Urban Mobility, Logistics, Intelligent Transport Systems, Safety, and Automated Road Transport. Participants will gain a comprehensive view of ongoing research and its tangible benefits for the environment, economy, and European society.

The **program** for the RTR Conference is now available, providing details about the featured projects and sessions, co-organised by [2Zero](#), [European Road Transport Research Advisory Council \(ERTRAC\)](#), [CCAM](#), [Batt4EU](#), and the [European Commission](#).

For more information, visit the RTR Conference website: [RTR Conference Provisional Programme 2025](#), or copy paste this link in your browser <https://rtrconference.eu/wp-content/uploads/2025/01/RTR-Conference-Draft-Programme-2025-22-jan-2025.pdf>



EU-INGENIOuS clustering group: TEMPEST, BATSS, EXTENDED, NEXTBAT, and VERSAPRINT

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 inštitut - National Institute of Chemistry, Tekniker, the Universities of Kaunas, Patras, and Bath, Sustainable Innovations. 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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<https://cordis.europa.eu/project/id/101103681>