Road Mobility

BROKERAGE
EVENT

Ewa Domke, Sebastian Bykuć

Institute of Fluid-Flow Machinery Polish Academy of Sciences (IMP PAN)

KEZO Research Centre – Living Lab

Poland

edomke@imp.gda.pl

sbykuc@imp.gda.pl

Energy-aware Software-defined EVs Integrated with Local Energy Systems

Call: HORIZON-CL5-2026-05-D5-02 Energy-efficient software-defined EVs (2ZERO)
Deadline: 14 April 2026
Call: HORIZON-CL5-2026-10-D6-01: Flagship-pilot: large-scale demonstrations of CCAM (CCAM Partnership)

The WP/Task of the project will demonstrate **software-defined electric vehicles** operating as **active elements of local energy systems**, enabling: higher overall energy efficiency, intelligent charging and V2X services, reduced grid impact and emissions. The concept focuses on **system-level optimisation**, combining EV software, energy management systems and real-world infrastructure. **Demonstration of V2G, V2B, V2H technologies in real life.**

Consortium: EV and software-defined vehicle manufacturers, EMS / digital platform providers, Energy and charging infrastructure providers, Cities and local authorities, Research organisations. **IMP PAN / KEZO role:** Living Lab demonstrator & energy system integration partner.

Profile of the partners sought: We are looking for partners with expertise in: software-defined EV architectures, vehicle software, digital twins, AI-based optimisation, smart charging and V2X technologies, OEMs and Tier-1 suppliers, cities interested in EV and energy integration pilots

Specific contribution to the topic

IMP PAN / KEZO will contribute:

Integration of software-defined EVs with **local energy systems**

Design and testing of **energy-aware EV operation strategies**

V2G / V2B / V2H services in real conditions

Energy efficiency and flexibility assessment

Support for system architecture and validation

Thank you