

HORIZON-CL5-2026-05-D5-01: Large Scale Demonstration of Heavy-Duty Battery Electric Vehicles (HD BEV) towards long-haul logistics operations



Proposed Approach, TOGL will provide:

- **Operational brain for HD-BEV fleets**, AI-driven orchestration that optimises vehicles, depots, and charging to cut costs and maximise uptime across EU corridors.
- **Digital tools & data layer**, delivers an open, FAIR data platform connecting OEMs, fleets, and CPOs for shared intelligence and cross-border optimisation.
- **Smart depot management**, deploys V2X-ready, dynamically scheduled charging integrating renewables, storage, and Megawatt Charging Systems (MCS).
- **Fleet flexibility modelling**, unlocks grid and economic value by aggregating heavy-duty fleets into active flexibility assets for DSOs and TSOs.
- **Demonstration & validation**, partners with OEMs and logistics leaders to prove large-scale HD-BEV operations in real European corridors.

Proven leadership in Large-Scale Innovation and Partnerships

- TOGL builds on experience leading and participating in **UK-funded innovation programmes exceeding £10 million**, advancing fleet electrification, smart charging, and energy flexibility.
- We've collaborated with **global business partners, major logistics operators, and vehicle and hardware OEMs** to trial, validate, and commercialise cutting-edge technologies.
- Our network enables us to attract **leading academics, industry experts, and major thought leaders** to joint programmes, positioning TOGL as a trusted orchestrator in Europe's transition to a flexible, zero-carbon energy system.

Organisational Capabilities

- TOGL is a UK SME powering energy flexibility and operational orchestration.
- We turn EVs, batteries, and buildings into active grid assets.
- Using AI and ML, we cut operating costs and unlock new value for logistics and energy operators.
- Driving the next generation of smart, connected energy systems.

Administrative Information

We are looking to be partners on the project.

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