

HORIZON-CL5-2027-03-D5-05 – High-Voltage, MCS-Compatible Modular Powertrain (HDV) (2ZERO Partnership)



Proposed Approach

BetterFleet will focus on system-level integration, deployment planning, and operational validation of high-voltage HDV systems.

- Fleet–charging–grid integration modelling for high-voltage (MCS-compatible) systems
- Duty cycle and utilisation modelling to validate performance of modular powertrains
- Depot energy and grid optimisation, including high-power charging and load management
- TCO and lifecycle cost modelling vs lower-voltage systems
- Demonstration support (deployment planning, KPI tracking: uptime, energy use, degradation)
- Replication strategies for scaling across real fleet use cases

Organisational Capabilities

[BetterFleet](#) is a fleet electrification SME specialising in system-level optimisation.

- Fleet + energy modelling and simulation
- Charging strategy and infrastructure design
- Grid impact and load management
- TCO and commercial strategy
- Global project delivery (EU, NA, APAC)

Experience

- **Transport for Greater Manchester (UK):** Analysis of charger and battery health, uptime and repeated faults across an existing estate of 200+ chargers and vehicles, demonstrating smart charging behaviours, providing fleet management recommendations to inform future procurement and strategy
- **Metropolitan Police (UK): Go Ahead Group:** Live management and monitoring of London-wide depot charging infrastructure (300 chargers across 40 locations), delivery of key features to balance operational pressures with tight power constraints
- **Leicestershire County Council (UK):** Fleet transition plan for 277 vehicles, including detailed modelling of vehicle usage, depot constraints, infrastructure needs, and financially viable decarbonisation pathways
- **City of Newcastle (UK):** Developed a data-driven transition plan for 341 vehicles across two depots, including cost, emissions, and infrastructure scenario modelling to support a zero-emissions fleet by 2030

Administrative Information

Role: Partner (system modelling, planning, and optimisation lead)

Contact Details:

Name: Benoit Laflamme
Email: benoitl@betterfleet.com
Phone: +44 7476 421656

Country: UK / Australia / United States / Canada

Organisation: BetterFleet (EVenergi LLC)

PIC: 864479036