

# Project idea: Electrification KIT for commercial vehicles

## Call area: No. 5

### Contact

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### Project Description

With the unique modular retrofit electrification kit as a game-changing innovation idea, e-troFit meets the requirements of the Green Deal and the Clean Vehicle Directives by retrofitting used and new commercial vehicles sustainably and cost-effectively. The e-troFit KIT is an electrification kit ready for series production and supports bus operators to enter the field of electromobility sustainably at moderate costs. In addition, the e-troFit KIT offers bus manufacturers the opportunity to convert their fleets into saleable electric vehicles.

### Project Objectives

- Offering the most sustainable solution in the commercial vehicle sector worldwide
- market scaling and offering a full life cycle of mobility solutions incl. 2nd life stationary battery storage systems
- make cooperation agreements with bus & truck manufacturers also for new vehicles and not only retrofitting kits from 2024 on
- In 2025 a first series product with solid state battery is planned. At this stage we intend becoming an electricity provider status by offering Life-Cycle-Costing (LCC) solution €/km to customers incl. energy supply.

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### Our know-how...

- Start as a pilot project at vehicle development specialist in-tech GmbH
- TÜV® certification. Fulfilment of the relevant norms and standards for all components (e.g. ISO 6722-1; ECE R100, ECE R10; VDV230). ISO 26262 Compliant Development: Functional Safety & Testing of System and components
- The most employees are located in the department Development & Testing and have a strongly expertise in Mechanical Engineering, System Engineering, Electrical Engineering and SW-Engineering. Features, functionalities and product specifications of the e-troFit Kit are developed and validated inhouse within this department.

### We are looking for...

We are looking for to build a network of lightweight construction experts and companies.

Lightweight construction is an important topic for us, as it enables us to achieve a considerable range increase in the future development of new commercial vehicles due to up to 50% less material consumption. The reduced total weight lowers power consumption and thus increases the range. Our modular battery system makes it possible to expand further battery packs in this way. Furthermore, a reduced total weight reduces seat/landing losses, which can be limiting for the overall registration of the vehicle.