

A cloud platform to optimise energy use for fleets of electric driverless transport and charging infrastructure

Circular Economy

Green Manufacturing

Low Environmental Footprint

Project consortium



Summary

The aim of the project enerHUB is to develop and deploy a cloud-based software platform allowing a data-driven optimisation of all energy related aspects of the operation of fleets of electric driverless transport systems and the associated charging infrastructure. Accordingly, various AI-based function modules are enabled along the entire life cycle of vehicles, which monitor and best regulate operation based on real-time data. This includes:

- Real-time monitoring of e-vehicle fleets and charging infrastructure
- Predictive maintenance of vehicle energy system and charging infrastructure
- Charging management for e-vehicle fleets in industrial and production segments
- Battery lifecycle tracking for second-life applications
- Digital twins for energy system mapping and adaptive adjustments based on physical values including battery aging factors.

