



# INNOVATION FUND

Deployment of net-zero and innovative technologies

**CarBatteryReFactory: Assembly plant for serial production of industrial energy storage systems based on second-life car batteries and disruptive full-pack technology.**

The Innovation Fund is 100% funded by the EU Emissions Trading System

## | Project Factsheet

Energy supply is rapidly turning decentralized and going digital. Electromobility will be the new mobility standard. Turnkey energy storage containers, made from vehicle batteries, will enable high cost savings for industry and grid operators. But so far there is a lack of standardised, industrial (and thus economic and scalable solutions) for the re-use of car batteries. Since over ten years FENECON, a German SME, recognizes the potential of these upheavals; it continues to develop innovative solutions for containerized storage systems. Strong partnerships with the automotive industry led to the implementation of the complete car battery pack, allowing the use of BMS, housing and temperature management. The innovative use of 2nd life batteries in a stationary storage system significantly improves their carbon footprint; no dismantling, rebuilding, or partial scrapping is necessary. An efficient 2nd life battery market will

**COORDINATOR**  
FENECON GMBH

**LOCATION**  
Germany

**CATEGORY**  
Energy Storage (ES)

**SECTOR**  
Other energy storage

**AMOUNT OF INNOVATION FUND GRANT**  
EUR 4,499,400

**EXPECTED GHG EMISSIONS AVOIDANCE**  
1,391,601 tonnes CO2 equivalent

**STARTING DATE**  
01 January, 2022

**ENTRY INTO OPERATION DATE**  
31 December, 2023

**FINANCIAL CLOSE DATE**  
30 June, 2022

be created as added value after being used in the vehicle, before the ultimate recycling process. Since 2019 the disruptive system FENECON Industrial is tested as a plug-and-play version for stationary and mobile use. Additionally, an open-source, manufacturer-independent and platform-based energy management software was initiated and developed by FENECON, thus allowing all manner of combined applications. Now it is the right time to scale up. FENECON invests in the construction of a plant with an assembly for efficient and

sustainable serial production for the disruptive system. This is the CarBatteryReFactory project, a main pillar of the company's future, boosting its growth in terms of turnover and number of employees while reducing the GHG emissions considerably. For the initial market introduction FENECON begins the commercialization on the European markets. The CarBatteryReFactory intends to become the European leader of 2nd life battery energy storage systems.

## | Beneficiaries

FENECON GMBH

Germany