

PROJECT

REBOOT

Retrofit all-Electric Bus for reduced Operator Operating costs in urban Transport (REBOOT)

Funding: European (Horizon 2020)

Duration: Nov 2014 - Apr 2015

Status: Complete

Total project cost: €71,429

EU contribution: €50,000



Call for proposal: H2020-SMEINST-1-2014

[CORDIS RCN : 194740](#)

Objectives:

The REBOOT project aims to significantly improve the competitiveness of European urban bus operators through the development of a retrofit all-electric drive system that replaces diesel engines. The objectives of our project include:

- To develop a retrofit all-electric drive system, battery and recharger pack for an 18 tonne bus that weighs less than 2.2 tonnes (the weight of a diesel drive) with the capacity to travel 160km
- A final system price of €120,000 that delivers a payback to the operator within 3 years
- To deliver an 80% reduction in fuel operating cost for bus operators

In Phase 1, our objectives include:

- Conduct market sounding activities with at least 10 organisations comprising of customers, regulators and industry experts
- Identify and establish strategic partnerships with at least 3 European industry partners in our value chain and 2 research institutions capable of enhancing the development and commercialisation of REBOOT
- Identify and secure at least 1 location and operator for the pilot trial / demonstration of REBOOT
- Evaluate an initial technology concept design using a design simulation package
- Conduct a comprehensive review of the IP landscape and identify management strategies

Parent Programmes:

[H2020-EU.3.4. - Horizon 2020: Smart, Green and Integrated Transport](#)

Institute type: Public institution

Institute name: European Commission

Funding type: Public (EU)

Lead Organisation:

Magnetic Systems Technology Limited

Address:

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SHEFFIELD
S11 8FT
United Kingdom

EU Contribution: €50,000

Technologies:

Electric road vehicles
Retrofit all-electric drive
system

Development phase: Research/Invention

Transport

STRIA Roadmaps: electrification

Transport mode: Road transport

Transport sectors: Passenger transport

Transport policies: Environmental/Emissions aspects

Geo-spatial type: Urban