PROJECT

iPHEV

Advanced Plug-in Hybrid Electric Drive System for Commercial Fleet Trucks

Funding: European (Horizon 2020)

Duration: Sep 2015 - Feb 2016

Status: Complete

Total project cost: €71,429

EU contribution: €50,000

Call for proposal: H2020-SMEINST-1-2015

CORDIS RCN : 198550

Objectives:

Economic, environmental and energy security factors provide a rational basis for switching to more efficient and less polluting vehicle technologies. Another even more important reason for the development of such technologies is the need to improve the air quality in the cities. Fleet users keep looking for cost-cutting solutions in order to remain competitive; they need to adapt to their customers' requirements for more sustainable transport solutions and to prepare for the future market demand and regulations.

We have a multiple value proposal for commercial fleet managers – a cutting-edge iPHEV system that can be installed in new LCVs to save fuel costs per work cycle, reduce emissions and noise, improve capacity, and cut operation and maintenance costs. The system can be installed in different OEMs models with a retarder. iPHEV can be used in 3.5t LCV: utility work trucks, delivery vans, and minibuses. Furthermore, we are planning to develop and implement the system in MCV.

The iPHEV proved to be an efficient part of the vehicle and the tests confirmed the compliance to the specification of the overall system and proper operation under real on-road conditions. The performance indicators show the viability of the prototypes in Iveco Daily models.

Development of high-impact Plug-in Hybrid technologies that may lead to the reduction of greenhouse gas emissions and fuel efficiency is an urgent need in many global areas, including Europe. iPHEV demonstrations have already received a lot of attention from potential customers and government representatives in Norway, Sweden and Denmark.

For the purpose of the iPHEV project justification, we are going to prepare a technical/practical and economic feasibility study, including business plan. Subject to positive recommendations of the feasibility study, we are going to submit a proposal under H2020 SME Instrument Phase 2.

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:

Elinta

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Terminalo g. 3,
LT-54469 Kauno raj.
Lithuania

EU Contribution: €50,000

Technologies:

Information systems
ICT support system for drivers of EV and hybrid freight vehicles

Development phase: Implementation

STRIA Roadmaps: Transport electrification

Transport mode: Road transport

Transport sectors: Freight transport

Transport policies: Societal/Economic issues, Environmental/Emissions aspects, Decarbonisation

Geo-spatial type: Other