

PROJECT

## E6 Evolution

### Dual Fuel Euro6 Engine Conversion Feasibility Study

**Funding:** European (Horizon 2020)

**Duration:** Jul 2015 - Dec 2015

**Status:** Complete

**Total project cost:** €71,429

**EU contribution:** €50,000



**Call for proposal:** H2020-SMEINST-1-2015

[CORDIS RCN : 197395](#)

#### Objectives:

G-Volution has been a pioneer of the use of dual fuel technology in heavy road haulage vehicles in the UK and Europe, with current operators using dual fuel on a daily basis reporting real world CO<sub>2</sub> emissions reductions of at least 15%, with consequent reductions in NO<sub>x</sub> and particulate emissions. The Company has invested heavily in development for more than 8 years, producing a range of patented technologies. The new Euro 6 solution has been developed from GV's patented Euro 5 solution, itself installed on a significant number of vehicle fleets, and demonstrated as part of the current Innovate UK Low carbon truck and refuelling infrastructure trial.

Commercial developments over the last year or so have led to initial sales success through the acceptance of the technology as a solution that provides the qualities demanded for future transport worldwide.

The objective of the overall project is to develop the current prototype Euro 6 prototype vehicle to provide the first commercially available retrofit solution for Euro6 engines. The strategic intent is to accelerate growth and increase penetration across Europe, USA and Asia by reducing the cost & increasing the reliability of the system while developing strategic partners in key European and World markets.

This first part proposal intends to examine the feasibility and route to:

- Refine design for components and controls in line with OEM quality standards.
- Re-engineer ancilliary items to comply with OEM acceptable safety and other standards.
- Set targets for cost reduction based on market sizes and expectations and operating cost savings.
- Investigate, and set up, a suitable professional supply chain to meet cost targets and quality.
- Investigate certification and homologation routes for various territories/continents.
- Produce a marketing and delivery plan that addresses business model by territory.
- Carry out an IP inventory, both current and arising.
- Raise TRL from 5-6 to 8-9, market ready.

#### 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:

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**G-Volution Ltd****Address:**

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LONDON  
W1B 5DB  
United Kingdom

**EU Contribution:** €50,000

**Technologies:**

Road vehicle propulsion  
Retrofit solution for Euro6 engines

**Development phase:** Demonstration/prototyping/Pilot Production

**STRIA Roadmaps:** Low-emission alternative energy for transport

**Transport mode:** Road transport

**Transport sectors:** Freight transport  
Societal/Economic issues, Environmental/Emissions aspects,

**Transport policies:** Decarbonisation

**Geo-spatial type:** Other