Innovate UK

Results of Competition: OLEV Low Emission Freight Demonstration - Stream 2
Competition Code: 1607_CRD_TRANS_OLEV_LEFD2

Total available funding is £3.09m from Innovate UK (£55k non grant costs)

Note: These proposals have succeeded in the assessment stage of this competition. All are subject to grant offer and conditions being met.

Participant organisation names	Project title	Proposed project costs	Proposed project grant
Advanced Fuel Technologies UK Limited University of Bath Shipton Mill Limited	AFT – a novel, low emission, fuel enrichment technology for freight vehicles	£260,559	£206,325
Project description - provided by applicants			
Fleet operators are under increasing pressure to adopt alternative fuels and technologies to reduce their vehicle emissions and improve air quality. Advanced Fuel Technologies (AFT), a UK-based SME, has developed an innovative fuel technology system to address this unmet market need. In the proposed project it will work with its project partners to further evaluate its system's ability to reduce freight vehicle emissions and improve their fuel efficiency.			

Note: you can see all Innovate UK-funded projects here
https://www.gov.uk/government/publications/innovate-uk-funded-projects Use the Competition Code given above to search for this competition's results

Innovate UK

Results of Competition: OLEV Low Emission Freight Demonstration - Stream 2
Competition Code: 1607_CRD_TRANS_OLEV_LEFD2

Total available funding is £3.09m from Innovate UK (£55k non grant costs)

Note: These proposals have succeeded in the assessment stage of this competition. All are subject to grant offer and conditions being met.

Participant organisation names	Project title	Proposed project costs	Proposed project grant
Wider Aspect Innovation Ltd S. Cartwright & Sons (Coachbuiders) Ltd Royal Mail Group Limited University of Strathclyde	Emission Reduction in LCV using Coanda Jet-Induced Drag Reduction	£286,441	£172,578
Project description - provided by applicants			
This project will develop a fuel save system for large commercial vehicles by utilising the Coanda Effect to reduce aerodynamic drag. The Coanda Effect has been seen in recent products such as the Dyson Air Multiplier Fan and the enhanced diffuser at the rear of a Red Bull F1 car.			

Note: you can see all Innovate UK-funded projects here
https://www.gov.uk/government/publications/innovate-uk-funded-projects Use the Competition Code given above to search for this competition's results

Innovate UK

Results of Competition: **OLEV Low Emission Freight Demonstration - Stream 2**
Competition Code: **1607_CRD_TRANS_OLEV_LEFD2**

Total available funding is £3.09m from Innovate UK (£55k non grant costs)

Note: These proposals have succeeded in the assessment stage of this competition. All are subject to grant offer and conditions being met.

Participant organisation names	Project title	Proposed project costs	Proposed project grant
TotalSim Ltd Dynamon Limited	Aerodynamic Configurator for Transport (ACT): reducing haulage sector drags, costs and emissions	£560,342	£392,240
Project description - provided by applicants			
The ACT project will develop a web based application for performing virtual aerodynamic simulations of HGVs. We usually conduct these studies on Formula One racing cars to help designers make them go faster; instead of making lorries faster, we are interested in reducing the amount of fuel they use and reducing their emissions so they do less harm to the environment. Using technology known as Computational Fluid Dynamics (CFD), the app will calculate how well a lorry cuts through air as it is driven along. Usually, to use CFD you need expensive computers and software. You also need skilled engineers with specialist knowledge to use them. Our app will be jargon free and work in a web browser so the maximum number of people possible can use it. To find how aerodynamic a lorry is, users simply pick from the range of different cabs, trailers, and modifications then click Simulate™, sit back and wait for the computer to work out how efficient that combination is. Giving haulage companies the ability to try out different configurations of HVG quickly and easily will help them to pick the most efficient cabs and trailers to use, dramatically reducing the cost of shipping and reducing greenhouse emissions, making the environment healthier for everyone.			

Note: you can see all Innovate UK-funded projects here
https://www.gov.uk/government/publications/innovate-uk-funded-projects Use the Competition Code given above to search for this competition's results

Innovate UK

Results of Competition: OLEV Low Emission Freight Demonstration - Stream 2
Competition Code: 1607_CRD_TRANS_OLEV_LEFD2

Total available funding is £3.09m from Innovate UK (£55k non grant costs)

Note: These proposals have succeeded in the assessment stage of this competition. All are subject to grant offer and conditions being met.

Participant organisation names	Project title	Proposed project costs	Proposed project grant
Idox Software Limited Paragus Ltd Amey Birmingham Highways Limited Birmingham City Council	Greenwave: Transforming Driving Behaviour for a more Efficient and Environmentally Friendly Fleet	£693,689	£405,776
Project description - provided by applicants			
Greenwave is a ground breaking smartphone application which uses traffic signal data derived from Birmingham City Council's Intelligent Transport System (ITS) to transform fleet driver behaviour through encouraging them through gamification to drive in a more efficient manner, approaching traffic signals at an optimum speed to ride the Greenwave™. Drivers will be awarded with a green score each time they drive, based on both their driving style and how they approach traffic signals. Points will accumulate over the month with a monthly league board rewarding the driver with the highest score, thus gamifying driving behaviour and encouraging more efficient driving styles. The solution, developed by Checkedsafe and CloudAmber, will be deployed as a trial on 12 Masternaut equipped vehicles in Amey's Birmingham Highways utility contract over a 6 month period to monitor the impact on MPG and vehicle emissions with the aim being to deliver a 10% reduction in monthly fuel costs and CO2 emissions. There is no known solution of this type in existence which uses data feeds from existing infrastructure to provide drivers with live updates enabling them to change their driving style.			

Note: you can see all Innovate UK-funded projects here
https://www.gov.uk/government/publications/innovate-uk-funded-projects Use the Competition Code given above to search for this competition's results

Innovate UK

Results of Competition: **OLEV Low Emission Freight Demonstration - Stream 2**
Competition Code: **1607_CRD_TRANS_OLEV_LEFD2**

Total available funding is £3.09m from Innovate UK (£55k non grant costs)

Note: These proposals have succeeded in the assessment stage of this competition. All are subject to grant offer and conditions being met.

Participant organisation names	Project title	Proposed project costs	Proposed project grant
Arcola Energy Ltd Haydale Composite Solutions Ltd Commercial Ltd	Integrated UK zero emission drivetrain for commercial vehicles	£536,985	£362,169
Project description - provided by applicants			
This project will develop a zero emission drivetrain for a 3500kg van with range and payload suitable for normal urban operations. Leading UK fuel cell system integrator Arcola Energy will carry out a full drivertrain design and integration to convert a transit van to full electric mode, with a fuel cell and hydrogen system providing the range required without compromising payload. With cmoposite material experts Haydale composite solutions, the project will also develop a 700bar hydrogen tank and system to suit the emerging refuelling standards and enable the range extension for the vehicle. The vehicle will be trialed by Commercial Group as the first fully zero emssion vehicle in their fleet of hydrogen powered vehicles which is currently the largest in the UK.			

Note: you can see all Innovate UK-funded projects here
https://www.gov.uk/government/publications/innovate-uk-funded-projects Use the Competition Code given above to search for this competition's results

Innovate UK

Results of Competition: **OLEV Low Emission Freight Demonstration - Stream 2**
Competition Code: **1607_CRD_TRANS_OLEV_LEFD2**

Total available funding is £3.09m from Innovate UK (£55k non grant costs)

Note: These proposals have succeeded in the assessment stage of this competition. All are subject to grant offer and conditions being met.

Participant organisation names	Project title	Proposed project costs	Proposed project grant
Magnetic Systems Technology Ltd Royal Borough of Greenwich DG Cities Ltd	eRCV Repowered Electric Refuse Collection Vehicle	£622,135	£465,295
Project description - provided by applicants			
This project demonstrates that a full size 26 T Refuse Collection Vehicle can be converted from diesel to all electric power. The repowered vehicle will be capable of working a two shift daily duty cycle without recharging. The project will demonstrate the benefits of zero emissions and reduced noise, while also extending the asset life of the used vehicle, which was first registered in 2009. The repowering will be undertaken by Magnetic Systems Technology Ltd of Sheffield (MagTec). The Refuse Collection Vehicle is owned and operated by the Royal Borough of Greenwich. Testing of the vehicle's performance and energy efficiency before and after conversion will be undertaken by a suitable test facility.			

Note: you can see all Innovate UK-funded projects here
https://www.gov.uk/government/publications/innovate-uk-funded-projects Use the Competition Code given above to search for this competition's results

Innovate UK

Results of Competition: **OLEV Low Emission Freight Demonstration - Stream 2**
Competition Code: **1607_CRD_TRANS_OLEV_LEFD2**

Total available funding is £3.09m from Innovate UK (£55k non grant costs)

Note: These proposals have succeeded in the assessment stage of this competition. All are subject to grant offer and conditions being met.

Participant organisation names	Project title	Proposed project costs	Proposed project grant
Tevva Motors Limited University of Newcastle Motor Design Ltd	TevvaDrive 3.0. Range Extended Electric Trucks with UK designed and build E-motors and batteries	£1,331,523	£1,081,778
Project description - provided by applicants			
The TevvaDrive 2.0 project builds on Tevva Motor's success in pioneering range extended delivery trucks. Working with client UPS in London, Tevva has already shown that a 7.5 tonne truck using a small diesel engine, from a Ford Focus, to charge batteries which in turn provide power to a traction motor, can reduce fuel usage by 50% whilst eliminating harmful tailpipe emissions in cities. This project builds on this success by taking a highly innovative approach to reduce drivetrain cost, making the vehicles cost effecitive to future clients. Tevva will work with Newcastle University whose highly innovate motor and generator design will both charge batteries and drive the wheels; this drive represents unique UK developed technology which eliminates the need for rare earth magnets and complex vehicle cooling systems. Secondly Tevva will work with Vayon in order to make use of batteries from the Nissan Leaf in these trucks; this will dramatically improve the affordability of the truck, take advantage of the high energy density of these batteries (doubling range or halving battery mass) and even allow the use of 'second life' batteries. These second life batteries are those that have through use reached 80% of their orgininal capacity, no longer usable in a car they are still ideal for use in a truck.			

Note: you can see all Innovate UK-funded projects here
https://www.gov.uk/government/publications/innovate-uk-funded-projects Use the Competition Code given above to search for this competition's results