

Project ID	DIP116		
Long Title	V2GO: Vehicle-To-Grid Oxford		
Short Title	V2GO		
Keywords	Small-scale; Multi-sector/Grid; Electricity; Transport; Vehicle-to-Grid; Electric & Hybrid Vehicles; Smart Transport Networks; Transport System Enablers; Energy Strategy Development;		
Location (Town, Region, Country)	Oxford		England
Latitude and Longitude	51.75N		1.25W
OSGB code	SP 51 06		
Status	Ongoing		
Start Date	2018		
End Date	2020		
Description	<p>V2GO (Vehicle-To-Grid Oxford) will develop, trial and evaluate potential business models, on- and off-vehicle hardware and products and services by engaging with UK fleet operators. Fleet vehicles account for 56% of new registrations and are quickly (i.e., <3 years) turned over into the private market.</p> <p>A better understanding of fleet operators' attitudes and valuations of different V2G technologies, products and services could create additional pathways for increasing the uptake of Ultra Low Emission Vehicles (ULEVs). The energy storage capacity of electric vehicles (EVs), present new opportunities and value propositions for V2G power system services (e.g., potentially alleviate the need for generation and transmission investments; increasing network efficiency and energy security. Given the size and use patterns of fleets, they could generate economies of scale that will help realise V2G opportunities and maximise their values.</p> <p>The project will address three objectives:</p> <ol style="list-style-type: none"> 1. To build confidence in and demonstrate the value of V2G to fleet operators; 2. To engage with and understand ULEV owner's attitudes to V2G services and technologies; 3. To demonstrate the technical and commercial potential for ULEVs through the power grid and vehicle-to-building to directly and indirectly support the electricity system. <p>These objectives will be met through a real-world demonstrator trial (WP3), a portfolio of research (WP4; WP5), development of V2G business models, products and services (WP2, WP4) and exploitation and dissemination (WP6, WP7). The trial will run for 20 months and involve at least 100 EVs from different sized fleets including Royal Mail, UPS, DPD, DL, EDF Energy, Oxford County Council, University of Oxford and Addison Lee."</p>		
Sectors	Transport		

Funding Sources	InnovateUK
Budget £	£4.13 million
Partners	EDF Energy R&D UK Centre, Arrival, Fleet Innovations, JUUCE, Oxfordshire County Council, University of Oxford, Upside Energy
Energy vectors	Electricity, Transport
Scale (lab/site /small/community/region/national)	Small
Technologies demonstrated	EV charging, vehicle-to-grid
Economic models demonstrated	Grid services, new commercial models
Other concepts demonstrated	Consumer impact analysis
Industry engagement	
Consumer engagement	
Project Reports (incl. links)	
Datasets (incl. links)	
Website/social media	https://www.gov.uk/government/news/30-million-investment-in-revolutionary-v2g-technologies?sf181693563=1 http://www.v2g.co.uk/
Information sources	https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/681321/Innovation_in_Vehicle-To-Grid_V2G_Systems_-_Real-World_Demonstrators_-_Competition_Results.pdf