

WESTERN POWER DISTRIBUTION CARCONNECT



Project Description

The overall aim of this project is to equip GB Distribution Network Operators with the tools and solutions to enable them to manage plug-in vehicle (PIV) market growth and PIV/V2G (vehicle-to-grid) induced LV network stresses as soon as they arise.

The project will conduct a mass market trial of PIV/V2G demand control services, that will inform the development of an LV Network Assessment Tool and functional specification and commercial framework for PIV Demand Control services, that, together, will enable DNOs to adopt and implement PIV demand Control services efficiently as PIV market penetration grows.



Areas of Work

The large scale field trial will recruit up to 700 new PIV drivers, across the UK, with a focus on the newly established OLEV Go Ultra Low City Scheme in WPD's licence areas, namely Milton Keynes, Bristol, Nottingham and Derby. This will provide data to further inform a network planning and PIV modelling tool. A monitoring algorithm will be developed to achieve visibility of the level of PIV penetration on LV networks. A PIV charger test system at EA Technology's site in Capenhurst will test up to 14 PIV chargers. The electric vehicle demand control services workstream will develop and demonstrate the effectiveness of this technology, as well as the business case for rollout.

Collaboration Partners: EA Technology, DriveElectric, Lucy Electric GridKey and TRL.

Electric Nation: CarConnect's customer-facing brand for trial recruitment.

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