

Project ID	DIP055		
Long Title	IODiCUS - Interoperable Open Digital Control Unit System		
Short Title	Localised energy systems		
Location (Town, Region, Country)	South East		England
X and Y coordinates	51.461394		-2.601704
OSGB code			
Status	Completed		
Start Date	2015		
End Date	2016		
Description	<p>The Interoperable Open Digital Control Unit System Project (IODiCUS) seeks to demonstrate the technical viability and future market for a connected energy network, in buildings with microgeneration and local energy storage and optimised interaction with the electricity grid. The project builds on the "Interoperability of energy harvesting, storage and use" feasibility study funded under the TSB Buildings Better Connected Call and will utilise algorithms executing dynamic decision making of the use of microgenerated electricity locally to the building, options for local storage, or for selling to, or buying back from, the electricity grid. It will use a representative set of buildings, residences and dwellings in and around the University of Bristol to demonstrate the efficacy of a Localised Energy System. It will develop Open Digital Control Units and Secure Communication Devices for measuring each energy input, store or output and develop algorithms that aim to delivering stable loads despite intermittency. IODiCUS will evaluate the technical and commercial merits, along with the future needs and constraints of the residential or business customer.</p>		
Sectors	Non-domestic, network		
Funding Sources	Innovate UK		
Budget £	£386,182		
Partners	Telemetry Associates Limited, Critical Software Technologies Limited, Smart Homes & Buildings Association Limited, Secure Controls (UK) Limited, University of Bristol, Smart Homes & Buildings Association (2016) Ltd, Trusted Renewables Ltd		
Energy vectors	Electricity, network		

Scale (lab/small/community/region/national)	Community
Technologies demonstrated	Interoperable Open Digital Control Unit System
Economic models demonstrated	
Other concepts demonstrated	
Industry engagement	
Consumer engagement	
Project Reports (incl. links)	
Datasets (incl. links)	
Website/social media	http://gtr.ukri.org/projects?ref=102001
Information sources	As above