Project ID	DIP065	DIP065			
Long Title	Network Equilibrium				
Short Title					
Keywords	Region; Multi-sector/Grid; Electricity; Power Quality & Grid Integration; Smart Grids; Active Network Management; LV Grid Monitoring; Energy Strategy Development;				
Location (Town, Region, Country)		Devon/Son	nerset	England	
Latitude and Longitude	51.02N		3.11W		
OSGB code	ST 22 24				
Status	Ongoing	Ongoing			
Start Date	2015				
End Date	2019				
Description	The focus of Network Equilibrium is to balance voltages and power flows across the distribution system, using three Methods to integrate distributed generation within electricity networks more efficiently and delivering major benefits to distribution customers.				
	The Problem that Network Equilibrium addresses is electricity infrastructure in the UK was originally dedeveloped for passive power distribution requirements result, the integration of significant levels of low care technologies (LCTs) within our present electricity necause voltage management and thermal issues. For usual (BAU) roll-out we need to develop solutions, strategic engineering approach, considering the whole and not solving constraints on a piecemeal basis. The will be investigated using three Methods, and their to 33kV and 11kV distribution networks assessed.				
Sectors	Grid				
Funding Sources		Low Carbon Network Fund			
Budget £		£13.1 million			
Partners	Western Power Distribu Newcastle University, Pa			SP Energy Networks,	
Energy vectors	Electricity				
Scale (lab/site/ small/community/region/national)	Region				
Technologies demonstrated	LV grid monitoring, sma large-scale smart grid	LV grid monitoring, smart controls, active network management, large-scale smart grid			
Economic models demonstrated	Deferred network inves	Deferred network investment			
Other concepts demonstrated	Grid constraint mitigation				
Industry engagement					

Demonstrator Proforma Version 1 3/5/18

Consumer engagement	
Project Reports (incl. links)	Library: http://www.smarternetworks.org/project/wpdt206-2/documents
Datasets (incl. links)	
Website/social media	https://www.westernpower.co.uk/Innovation/Projects/Current- Projects/Network-Equilibrium.aspx
Information sources	http://www.smarternetworks.org/project/wpdt206-2