

Project ID	DIP034		
Long Title	Entire		
Short Title			
Keywords	Region; Multi-sector/Grid; Electricity; Power Quality & Grid Integration; Smart Grids; Demand Response; Active Network Management; Smart Devices; Energy Strategy Development;		
Location (Town, Region, Country)		East Midlands	England
Latitude and Longitude	52.26N	1.16W	
OSGB code	SP 57 62		
Status	Ongoing		
Start Date	2016		
End Date	2020		
Description	<p>DNOs have been running limited scope trials in order to assess the potential of DSR as an enhancement to existing network operations. These have to date not addressed the issue of customer participation in multiple DSR schemes and the need for a service provider that can aggregate and optimise capacity to meet the requirements of multiple schemes (SO, TO, DNO & Supplier) and maximise value to asset owners. If this is not addressed it is unlikely that DNOs will be in a position to recruit participants for the exclusive purpose of constraint management due to higher, or more frequent, income stream from non-DNO sources.</p> <p>Prior DSR trials have so far been limited in their scope with only small sample groups being engaged to offer quite limited functionality specifically for distribution constraint management. As the name 'Entire' suggests, we will now extend the previously limited scope to fully develop and test the skills, relationships and systems necessary for a DNO to provide a comprehensive DSR capability. We will be doing this in areas within the WPD network that are may be due a significant capital upgrade but where the certainty of immediate need is absent. The project will also demonstrate how DSR can be used to defer capital investment that can sometimes take up to 10 years.</p> <p>Linked to FALCON project (follow-on).</p>		
Sectors	Grid		
Funding Sources	Network Innovation Allowance		
Budget £	£1.97 million		
Partners	Western Power Distribution, Smart Grid Consultancy		
Energy vectors	Electricity		
Scale (lab/site/ small/community/region/national)	Region		
Technologies demonstrated	LV grid monitoring, smart controls, demand response devices, active network management		

Economic models demonstrated	Grid services, new commercial models, deferred network investment
Other concepts demonstrated	Demand response, grid constraint mitigation
Industry engagement	
Consumer engagement	
Project Reports (incl. links)	Library: http://www.smarternetworks.org/project/nia_wpd_017/documents
Datasets (incl. links)	
Website/social media	https://www.westernpower.co.uk/Innovation/Projects/Current-Projects/Project-ENTIRE.aspx
Information sources	http://www.smarternetworks.org/project/nia_wpd_017