Project ID	DIP039	DIP039		
Long Title	Flexible Networks for a Low Carbon Future			
Short Title	Flexible Networks			
Keywords	Community; Multi-sector/Grid; Electricity; Power Quality & Grid Integration; Active Network Management; LV Grid Monitoring			
Location (Town, Region, Country)	3 Locations (see below)			
Latitude and Longitude	n/a		n/a	
OSGB code	n/a			
Status	Complete			
Start Date	2012			
End Date	2014			
Description	faster, lower cost, DNO-lead the network. The propose demand on the electricity transition to a low carbon dependence on electricity applications. The project was to be identified and manage faster delivery of approprious through a number of innocustomer benefits enabling transition to new generation objectives: The project invanalysis in to precisely detail deployment of novel technoperation, including flexible ensure representative and involves three carefully seand SP Manweb, covering customer demographics: Seand SP Manweb, covering customer demographics seand SP Manweb,	Flexible Networks for a Low Carbon Future aims to create a faster, lower cost, DNO-led solution to increasing the capacity of the network. The proposed solution will facilitate an increasing demand on the electricity network, as customers make the transition to a low carbon economy and increase their dependence on electricity for heating, transport and other applications. The project will also enable future network trends to be identified and managed in a forward looking manner with faster delivery of appropriate and cost-effective solutions. The solution will provide a 20% increase in network capacity through a number of innovative measures. This will create customer benefits enabling more customers to make the transition to new generation and demand technologies. Objectives: The project involves enhanced monitoring and analysis in to precisely determine existing performance, and the deployment of novel technology for improved network operation, including flexible control and dynamic rating. To ensure representative and replicable outputs, the project involves three carefully selected trial areas across SP Distribution and SP Manweb, covering various network topology and customer demographics: St Andrews in Scotland, Wrexham in		
	· ·	Multi-sector/Grid		
Funding Sources		Low Carbon Network Fund		
Budget £		£6.36 million		
Partners		SP Energy Networks, University of Strathclyde, TNEI, Nortech		
Energy vectors	· ·	Electricity		
Scale (lab/site/small /community/region/national)	Community	Community		
Technologies demonstrated	Active network management, network data acquisition			
Economic models demonstrated				

Demonstrator Proforma Version 1 3/5/18

Other concepts demonstrated	Grid constraint mitigation	
Industry engagement		
Consumer engagement		
Project Reports (incl. links)	Extensive library, including closedown report, at project website. Paper: https://strathprints.strath.ac.uk/57913/	
Datasets (incl. links)		
Website/social media	https://www.spenergynetworks.co.uk/pages/ flexible networks for a low carbon future.aspx	
Information sources	http://www.smarternetworks.org/project/spt2003	