Project ID	DIP019			
Long Title	Demonstrating the Functionality of Automated Demand Response			
Short Title	ADR			
Keywords	Small-scale; Non-domestic; Electricity; Power Quality & Grid Integration; Demand Response; Active Network Management; LV Grid Monitoring; Energy Strategy Development;			
Location (Town, Region, Country)	Bracknell	Berkshire		England
Latitude and Longitude	51.42N 0.75W			
OSGB code	SU 870 693			
Status	Complete			
Start Date	2011			
End Date	2012			
Description	Bracknell's primary transformers are already operating at close to capacity, which means they will not be able to accommodate further significant increases in electricity demand without being substantially upgraded. Furthermore, unless effectively managed, the anticipated changes in demand levels and load profiles will trigger network problems including voltage and thermal constraints. In order that Bracknell can continue to reliably supply electricity to it's customers, there is a need for a solution which safely, quickly and sustainably optimises the use of the available capacity on the network. Objectives: This small-scale project aims to demonstrate that the ADR technology proposed can shed peak loads in the proposed buildings. SEPD will run a pilot project of Honeywell's ADR solution to answer the following questions: • Can the proposed ADR solution produce an aggregated figure of dispatchable demand? • Can it reduce/shift peak loads in facilities and therefore the network? • What data can be collated and what value is it to a DNO and how will it be securely stored? This project will demonstrate the feasibility of this solution and will provide valuable learning for all DNO's in GB. The learning from this trial may also feed into SEPD's New Thames Valley Vision Tier 2			
Sectors	Linked to Thames Valley Vision (TVV) project (precursor). Grid			
Funding Sources	Low Carbon Network Fund			
Budget £	£260,000			
Partners	SSE, Honeywell Building Solutions, Bracknell Forest Council			

Energy vectors	Electricity	
Scale (lab/site/ small/community/region/national)	Small	
Technologies demonstrated	LV grid monitoring, smart controls, demand response devices, active network management	
Economic models demonstrated	Deferred network investment	
Other concepts demonstrated	Demand response, grid constraint mitigation	
Industry engagement	Industry led	
Consumer engagement		
Project Reports (incl. links)	Closedown report: https://www.ssepd.co.uk/WorkArea/DownloadAsset.aspx?id=5236 Library: http://www.smarternetworks.org/project/sset1004/documents	
Datasets (incl. links)		
Website/social media		
Information sources	http://www.smarternetworks.org/project/sset1004	