

Project ID	DIP093		
Long Title	Smart Hooky		
Short Title			
Keywords	Community; Rural; Multi-sector/Grid; Electricity; Power Quality & Grid Integration; Smart Grids; Demand Response; LV Grid Monitoring; Stakeholder Engagement & Behaviour Change; Data Acquisition;		
Location (Town, Region, Country)	Hook Norton	Oxfordshire	England
Latitude and Longitude	52.00N	1.48W	
OSGB code	SP 35 33		
Status	Complete		
Start Date	2012		
End Date	2013		
Description	<p>Western Power Distribution worked with a number of partners to trial a range of new technologies to create one of the UK's first community-scale 'smart grids', through the Smart Hooky Project.</p> <p>Building on the successful Low Carbon Communities Challenge, this trial aimed to help WPD understand how a rural community uses electricity at different times of the day and find out how electricity networks could accommodate more low-carbon technology.</p> <p>The project also looked at delivering the following:</p> <ul style="list-style-type: none"> • Customer engagement and incentive programme; • Community data measurement and display capabilities; • At-scale Power Line Communications (PLC) demonstration; • High Voltage (HV)/Low Voltage (LV) substation monitoring technologies; and • A miniature smart grid telecommunications network using two or more technologies. <p>Smart Hooky also allowed homeowners to understand the impact of their own behaviour on their energy consumption and on the environment, as well as helping the government meet its target of reducing carbon emissions by 80% by 2050.</p>		
Sectors	Domestic, grid		
Funding Sources	Low Carbon Network Fund		
Budget £	£344,000		
Partners	Western Power Distribution, Hook Norton Low Carbon Group, National Energy Foundation, AND Technology		
Energy vectors	Electricity		
Scale (lab/site/ small/community/region/national)	Community		

Technologies demonstrated	LV grid monitoring, demand data acquisition, smart meters, network data acquisition,
Economic models demonstrated	Deferred network investment
Other concepts demonstrated	Demand response, DNO-consumer engagement, grid constraint mitigation
Industry engagement	
Consumer engagement	c. 700 households
Project Reports (incl. links)	Closedown report: https://www.westernpower.co.uk/docs/Innovation/Closed-projects/Smart-Hooky/Smart-Hooky-FINAL-v2-0.aspx Library: http://www.smarternetworks.org/project/cnt1002/documents
Datasets (incl. links)	
Website/social media	https://www.westernpower.co.uk/Innovation/Projects/Closed-Projects/Smart-Hooky.aspx
Information sources	http://www.smarternetworks.org/project/cnt1002