

Project ID	DIP066		
Long Title	Network Management on the Isles of Scilly		
Short Title			
Keywords	Community; Rural; Multi-sector/Grid; Electricity; Power Quality & Grid Integration; Smart Grids; Active Network Management; LV Grid Monitoring; Energy Strategy Development; Data Acquisition;		
Location (Town, Region, Country)	Isles of Scilly		England
Latitude and Longitude	49.56N		6.19W
OSGB code	SV 89 12		
Status	Complete		
Start Date	2011		
End Date	2016		
Description	<p>The Isles of Scilly is a small cluster of islands off the coast of Cornwall that have a stated intention of becoming energy self-sufficient. The climate afforded by its location provides a large potential for this energy to be supplied using renewable low carbon technologies, such as photovoltaic (PV) generation, wind turbines or tidal power schemes.</p> <p>This project has deployed and assessed several technological solutions to form an overarching smart grid covering every substation on the Isles. On completion it has produced a platform for further low carbon related research and development activities.</p> <p>Due to its islanded position, the Isles of Scilly provides a discrete platform to study the effect of low carbon technologies on an electrical network and learning from this can be applied on other electrical networks in the UK.</p> <p>This report details the work undertaken as part of the LCN funded Tier 1 project Network Management on the Isles of Scilly. The project had three aims which were covered across the project lifespan:</p> <ul style="list-style-type: none"> • Establish a real-time monitoring system on all the distribution substations • Maximise existing generation facilities • Control the generation using new methods 		
Sectors	Domestic, non-domestic, grid		
Funding Sources	Low Carbon Network Fund		
Budget £	£1.3 million		
Partners	Western Power Distribution, Duchy of Cornwall, IGE, Islanders on St. Agnes, Isles of Scilly Council, Power Electrics, PowerPlus Communications Radius, Transition Scilly		
Energy vectors	Electricity		

Scale (lab/site/ small/community/region/national)	Community
Technologies demonstrated	LV grid monitoring, active network management, large-scale smart grid, network data acquisition,
Economic models demonstrated	Deferred network investment
Other concepts demonstrated	Grid constraint mitigation
Industry engagement	
Consumer engagement	
Project Reports (incl. links)	Closedown report: https://www.westernpower.co.uk/docs/Innovation/Closed-projects/Isles-of-Scilly/Isles-of-Scilly-Closedown-Report-FINAL-v2.aspx Library: http://www.smarternetworks.org/project/wpdt1002/documents
Datasets (incl. links)	
Website/social media	https://www.westernpower.co.uk/Innovation/Projects/Closed-Projects/Isles-of-Scilly.aspx
Information sources	http://www.smarternetworks.org/project/wpdt1002