

Project ID	DIP094		
Long Title	Smart Islands		
Short Title			
Keywords	Community; Rural; Multi-sector/Grid; Electricity; Heat; Transport; Solar PV; Heat Pumps; Direct Electric Storage; Smart Grids; Demand Response; Active Network Management; LV Grid Monitoring; Smart Devices; Electric & Hybrid Vehicles; Social Impacts;		
Location (Town, Region, Country)	Isles of Scilly		England
Latitude and Longitude	49.56N		6.19W
OSGB code	SV 89 12		
Status	Ongoing		
Start Date	2017		
End Date	Undefined		
Description	<p>A £10.8 million project will create an ambitious smart energy system that will provide a model to support the transition to low carbon sustainable communities.</p> <p>It will be innovative in its scale and range of technologies, linking for example; rooftop solar panels, solar gardens, batteries, domestic heat pumps and electric vehicles through an Internet of things (IoT). It will balance supply, storage and demand, allowing the islands to scale up renewable generation and increase their energy independence.</p> <p>Rooftop solar photovoltaic (PV) systems will be installed on 100 homes, a tenth of the island's housing stock, and two 50kW solar gardens will be built. They will deliver at least 448kW of renewable energy and reduce the islands' carbon footprint.</p> <p>Energy management systems will be installed in the 100 solar homes and in 190 of the islands businesses. Ten of these will be smart homes piloting a variety of additional smart energy technologies including smart batteries and air source heat pumps. These technologies have the potential to significantly increase savings from solar PV.</p> <p>This smart energy system will be a key enabler for the Isles of Scilly to connect further renewable power towards the Smart Islands target of 40% renewable generation, and it will support their ambition to reduce energy bills for local people and see 40% of vehicles being electric or low-carbon by 2025.</p>		
Sectors	Grid		
Funding Sources	ERDF		
Budget £	£10.8 million		
Partners	Hitachi Europe, The Duchy of Cornwall, Tresco Estate, The Council of the Isles of Scilly, the Islands' Partnership, Moixa, PassivSystems		

Energy vectors	Electricity, Heat, Transport
Scale (lab/site/ small/community/region/national)	Community
Technologies demonstrated	LV grid monitoring, smart controls, heat pumps, solar PV, active network management, battery storage, large-scale smart grid; EV charging, smart appliances
Economic models demonstrated	Community engagement
Other concepts demonstrated	Demand response
Industry engagement	
Consumer engagement	
Project Reports (incl. links)	<a href="https://irp-cdn.multiscreensite.com/7ca463a8/files/uploaded/SEI-news2-web.pdf">https://irp-cdn.multiscreensite.com/7ca463a8/files/uploaded/SEI-news2-web.pdf</a>
Datasets (incl. links)	
Website/social media	<a href="https://smartislands.org/">https://smartislands.org/</a> <a href="http://www.smartenergyislands.net/">http://www.smartenergyislands.net/</a>
Information sources	As above