

Project ID	DIP105		
Long Title	Stirling Renewable Heat Project		
Short Title			
Keywords	Community; Town; Non-domestic; Electricity; Heat; Transport; Bioenergy; CHP; Waste Heat Recovery; Waste Management; Fuel Cell; Microgrids; District Heating; Alternative Fueled Vehicles;		
Location (Town, Region, Country)	Stirling		Scotland
Latitude and Longitude	56.12N		3.92W
OSGB code	NS 808 934		
Status	Ongoing		
Start Date	2017		
End Date	2018		
Description	<p>Stirling Council and Scottish Water Horizons and the wider Stirling Community have come together to create, develop and deliver a low carbon infrastructure project to the benefit of the Stirling area. The project involves adding innovative energy generation technology to the waste water treatment plant to harness energy from waste and carbon neutral biogas to deliver affordable, low carbon heat to the Stirling Community with negligible air quality impact.</p> <p>It is intended for this to be an initial seed point for a wider district heat network that would cover the city, in line with Stirling Council's strategy for decarbonising heat. The concept utilises the biogas generated by the existing anaerobic digestion (AD) plant (currently a waste product). The electrical power generated will be used at site to offset grid usage and to power a SHARC waste water heat recovery system which harvests heat from waste water. The heat energy produced from the fuel cell and the SHARC units will be combined and used to supply the proposed district heat network.</p>		
Sectors	Non-domestic		
Funding Sources	Low Carbon Infrastructure Programme		
Budget £	£4.6 million (£2m from LCITP)		
Partners	Stirling Council, Scottish Water Horizons		
Energy vectors	Electricity, Heat		
Scale (lab/site/ small/community/region/national)	Community		
Technologies demonstrated	Waste heat recovery, fuel cell, anaerobic digestion – waste feedstock, biofuel generation, CHP, gas vehicle filling, heat network		
Economic models demonstrated	Private wire microgrid, circular economy		

Other concepts demonstrated	Waste-to-energy
Industry engagement	
Consumer engagement	
Project Reports (incl. links)	http://www.apse.org.uk/apse/assets/File/SC-SWH%20APSE%20Presentation(1).pdf
Datasets (incl. links)	
Website/social media	
Information sources	As above