Project ID	DIP057		
Long Title	Levenmouth Community Energy Project		
Short Title	LCEP		
Keywords	Single Site; Town; Non-domestic; Transport; Solar PV; Wind; CHP; Hydrogen; Fuel Generation; Fuel Cells; Physical Storage; Microgrids; Alternative Fuel Vehicles; Transport System Enablers; Energy Strategy Development;		
Location (Town, Region, Country)	Levenmouth	Fife	Scotland
Latitude and Longitude	56.11N	3.00W	
OSGB code	NT 380 997		
Status	Ongoing		
Start Date	2015		
End Date	2016		
Description	In 2015, Bright Green Hydrogen and a consortium of organisations (principally Fife Council and Toshiba) applied and were successful in obtaining a grant of £4.4 million from the Local Energy Scotland Challenge Fund. This new project was entitled the Levenmouth Community Energy Project (LCEP). 160kW solar power was added in to complement the existing 750kW wind turbine, with newer larger hydrogen storage facilities, electrolysers and fuel cells added. The innovative Toshiba hydrogen energy management system allows 8 buildings in the Methil Docks Business Park to be actively managed as part of a renewable energy micro-grid. When the hydrogen storage is full, excess electricity can be exported to the National Grid. The second aspect of LCEP is renewable transport. Bright Green Hydrogen have a fleet of 10 Renault HyKangoo vans for lease that are electric with hydrogen range extenders. Fife Council operates 5 Ford Transit vans which run on a diesel/hydrogen mix, and 2 refuse collection vehicles which also run on a diesel/hydrogen mix (a world first). All vehicles are able to be refuelled at our demonstration site in the Methil Docks Business Park, with council vehicles able to refuel at their Bankhead depot.”		
Sectors	Non-domestic, transport		
Funding Sources	Local Energy Challenge Fund		
Budget £	£4.4 million		
Partners	Bright Green Hydrogen Ltd., Fife Council, Toshiba		
Energy vectors	Electricity, Power-to-Fuel, Low Carbon Transport, Storage, Low Carbon Heat		
Scale (lab/site/small /community/region/national)	Site		

Technologies demonstrated	Fuel cell, solar PV, hydrogen vehicles, hydrogen generation, hydrogen storage, CHP, wind
Economic models demonstrated	Hydrogen economy development
Other concepts demonstrated	Fuel generation from constrained renewables
Industry engagement	
Consumer engagement	
Project Reports (incl. links)	
Datasets (incl. links)	
Website/social media	http://www.brightgreenhydrogen.org.uk/home/levenmouth-community-energy-project-2/
Information sources	As above