

LCITP TRANSFORMATION LOW CARBON (TLC) DEMONSTRATOR (2017)

The TLC Demonstrator call was specifically designed to support the delivery of transformational low carbon energy infrastructure projects in Scotland.

Project Title	Project Location	Project Summary	Project Status	LCITP Capital Support	Estimated Greenhouse Gas Savings per annum	Estimated Jobs Created
Fair Isle Unified Low Carbon, Electricity Storage and Generation Project	ZE2 9JU	The project installed a combination of Wind Turbines, Solar Arrays and battery storage. This is providing the Island with renewable, stable, 24 hour power for the first time.	Operational	£3,542,820	119-192 tCO ₂ e	No estimate available
Shetland Tidal Array	ZE2 9DD	The project deployed the world's first fully operational, grid connected offshore tidal array.	Operational	£188,606.00	82 tCO ₂ e	3 FTE
Tackling Fuel Poverty & Grid Balancing with Smart Electric Storage Heat	Various Locations Around Scotland	The project installed 1000 VCharge smart technology units to existing storage heaters, which allowed heaters to be charged at different times based upon resident requirements.	Operational	£420,000	No estimate available	No estimate available

Glenrothes Next Generation Heat	Various Locations within Glenrothes	The project created a heat network in Glenrothes, utilising the heat generated from the RWE Biomass CHP.	Operational	£8,558,570.80	1,968 tCO2e	No estimate available
Stirling Renewable Heat Demonstration Project	FK7 7SY	Heat from waste water is harvested using a waste water heat recovery system. The system utilises electricity generated from the previously existing AD plant.	Operational	£1,995,331,00	1,062 tCO2e	17 FTE
Queens Quay and Clydebank Heating Network	G81 1SE	The project is using water source heat pumps to create a heat network at Queens Quay, Clydebank.	Operational	£6,000,000	783 tCO2e	18 FTE
Low Carbon District Energy Hub	DD4 9BX	A ground source heat pump and solar thermal array provides heat to the newly constructed Regional Performance Centre.	Operational	£2,900,000	536 tCO2e	16 FTE
Aqualibrium - Campbeltown	PA28 6EG	The project retrofitted the leisure centre at Campbeltown to utilise heat recovered from sewage water.	Operational	£517,516.72	108 tCO2e	No estimate available

Dundee and Angus Residual Waste Combined Heat and Power Project	DD4 0NS	The project installed a steam connection from the Energy from Waste plant to the Michelin factory. The steam would replace the need for use of gas boilers	Operational	£1,687,000	7,650 tCO2e	25 FTE
---	---------	--	-------------	------------	-------------	--------

LCITP LOW CARBON INNOVATION FUND INVITATION (IFI) DEMONSTRATOR (2018)

The Low Carbon Innovation Funding invitation was designed to accelerate the delivery of large-scale, innovative low-carbon infrastructure projects that support the ambitions set out within the Scottish Energy Strategy.

Project Title	Project Location	Project Summary	Project Status	LCITP Capital Support	Estimated Greenhouse Gas Savings per annum	Estimated Jobs Created
Aviva Low Carbon Transition Programme	PH2 0NH	The project will install Solar Canopies and smart storage batteries at Aviva's Offices in Perth. The energy will be used for EV Charging and building use.	Operational	£1,506,102	952.4 tCO2e	No estimate available
Grid Forming Algorithm Project	KA6 7QA.	The project uses a complex algorithm to modify existing non-synchronous renewable energy generation to enable them to act as synchronous generators allowing them to	Operational	£447,000	No estimate available	No estimate available

		provide stability to the electricity grid.				
--	--	---	--	--	--	--