Project ID	DIP011			
Long Title	Cockle Park Farm			
Short Title	Cockle			
Keywords	Single Site; Rural; Non-domestic; Electricity; Heat; Solar PV; Bioenergy; Heat Pumps; CHP; Anaerobic Digestion; Hydrogen; Fuel Generation; Waste Management; Direct Electric Storage; Microgrid; Environmental Impacts; Energy Strategy Development;			
Location (Town, Region, Country)	Morpeth	Northumberla	and	England
Latitude and Longitude	54.34N 1.41W		·	
OSGB code	NZ 201 912			
Status	Ongoing			
Start Date	2016 (CESI Start)			
End Date	Undefined			
Description	Cockle Park Farm is a working 307-hectare mixed farm situated near Morpeth. The farm is owned and operated by Newcastle University.			
	The energy system at Cockle Park Farm includes:			
	 Grid-connect ar Solar photovolt Electricity powe Combined heat 	naerobic digesto aics er pump	er	
	The farm's energy system are used to learn more about:			
	 Harvesting by-products from the anaerobic digester Making use of excess heat or humidity from animal barns to use in a farm heat network How we can calculate the carbon footprint of the farm How to meet the energy trilemma for the farm, balancing cost, carbon and resilience 			
Sectors	Non-domestic			
Funding Sources	Centre for Energy System Integration			
Budget £	Undefined			
Partners	University of Newcastle			
Energy vectors	Electricity, heat			
Scale (lab/site/small /community/region/national)	Site			
Technologies demonstrated	Anaerobic digestion – waste feedstock, solar PV, heat pumps			
Economic models demonstrated				
Other concepts demonstrated	Waste-to-energy, sustainable farming			
Industry engagement				
Consumer engagement				

Project Reports (incl. links)	Brochure. <u>http://www.ncl.ac.uk/media/wwwnclacuk/instituteforsustainability/</u> <u>files/Cockle%20Park%20Farm%20leaflet.pdf</u> Research paper. <u>https://ieeexplore.ieee.org/abstract/document/8315825/</u>
Datasets (incl. links)	
Website/social media	http://www.ncl.ac.uk/cesi/research/demo/cpf/
Information sources	As above