

Project ID	DIP013		
Long Title	Community Energy at Trent Basin		
Short Title	Trent Basin		
Keywords	Community; Urban; Domestic; Electricity; Heat; Solar PV; Heat Pumps; Thermal Storage; Direct Electric Storage; Smart Grids; Microgrids; District Heating; Demand Response; Smart Devices; Social Impacts; Alternative Suppliers & Tariffs;		
Location (Town, Region, Country)	Nottingham		England
Latitude and Longitude	52.86N		1.07W
OSGB code	SK 59 39		
Status	Ongoing		
Start Date	2017		
End Date	Undefined		
Description	<p>Trent Basin has been selected to demonstrate a new way of generating and supplying heat and electricity to homes. The proposal is to generate, store and distribute energy at a neighbourhood level.</p> <p>Homeowners at Trent Basin will be invited to participate in the project and by doing so achieve savings of up to 30% in energy costs.</p> <p>The benefits of Community Energy are lower costs and more efficient use of distributed renewables to reduce the overall carbon emissions from the energy system.</p> <p>Technologies to be employed include Photo Voltaic Panels and communal battery stores and ground source heat pumps.</p>		
Sectors	Domestic		
Funding Sources	InnovateUK		
Budget £	£10 million		
Partners	Energy Research Accelerator, Blueprint, Nottingham and Loughborough Universities, Siemens, AT Kearney, SmartKlub		
Energy vectors	Electricity, Heat		
Scale (lab/site/ small/community/region/national)	Community		
Technologies demonstrated	Solar PV, thermal storage, battery storage, heat pumps, heat network, smart appliances, smart controls		
Economic models demonstrated	Private wire microgrid, community engagement		
Other concepts demonstrated	Demand response		
Industry engagement			
Consumer engagement	350 households		
Project Reports (incl. links)	https://www.trentbasin.co.uk/news/		
Datasets (incl. links)			

Website/social media	https://www.trentbasin.co.uk/ https://www.projectscene.uk/trentbasin/ https://www.nottingham.ac.uk/news/pressreleases/2018/january/europes-largest-community-battery-installed-at-trent-basin.aspx
Information sources	As above