Project ID	DIP016	DIP016		
Long Title	Creative Energy Homes			
Short Title	СЕН			
Keywords	Heat Pumps; Direct Ele Heating; Demand Resp	Small-scale; Urban; Domestic; Electricity; Heat; Solar Thermal; Heat Pumps; Direct Electric Storage; Microgrids; District Heating; Demand Response; Smart Devices; Social Impacts; Stakeholder Engagement & Behaviour Change;		
Location (Town, Region, Country)	Nottingham	England		
Latitude and Longitude	52.94N	1.20W		
OSGB code	SK 541 382	SK 541 382		
Status	Ongoing	Ongoing		
Start Date	2016	2016		
End Date	2019	2019		
Description	Creative Energy Homes is a £1.9m project that is a key resource, particularly with respect to micro-smart grids, energy storage, demand-side management and occupants' acceptance of innovative technologies.			
	leading firms including; Bullivant, the Mark Gro with the University to i	The seven-house development provides a living test-site for leading firms including; E.ON, David Wilson Homes, BASF, Roger Bullivant, the Mark Group, Tarmac and Saint Gobain, to work with the University to investigate the integration of energy efficient technologies into houses.		
	The Energy Technologies Institute (ETI) is to invest nearly £500,000 to support the continued development of the University of Nottingham's Creative Energy Homes project.			
	Park Campus in Notting semi-detached propert and acts as a test bed f	The existing Creative Energy Homes scheme at the University Park Campus in Nottingham consists of four detached and three semi-detached properties built to different building regulations and acts as a test bed for the integration of new energy efficient technologies into houses.		
	develop the existing Cr to become a fully flexib power network demon heat network with hear	The ETI investment into the three-year project will further develop the existing Creative Energy Homes scheme allowing it to become a fully flexible integrated community smart heat and power network demonstration test facility. A new small-scale heat network with heat storage capability to provide heat directly to the homes on the scheme will be introduced.		
Sectors	Domestic			
Funding Sources	Internal	Internal		
Budget £	£1.9million (CEH) / £50	£1.9million (CEH) / £500,000 (Smart Grid)		
Partners		University of Nottingham, E.ON, David Wilson Homes, BASF, Roger Bullivant, the Mark Group, Tarmac, Saint Gobain, ETI.		
Energy vectors	Electricity, Heat	Electricity, Heat		

Scale (lab/site/ small/community/region/national)	Small	
Technologies demonstrated	Smart controls, demand response devices, heat pumps, battey storage, low energy buildings, microgrids, heat network, solar thermal, biomass boiler, micro-CHP, micro wind	
Economic models demonstrated		
Other concepts demonstrated	Demand response, post occupancy studies	
Industry engagement	Industry partners	
Consumer engagement		
Project Reports (incl. links)	Microgrid paper. https://ieeexplore.ieee.org/document/6837018/	
Datasets (incl. links)		
Website/social media	https://www.nottingham.ac.uk/creative-energy- homes/index.aspx http://www.eti.co.uk/news/eti-to-invest-500000-to-further- develop-the-university-of-nottinghams-creative-energy-homes- project	
Information sources	As above	