Project ID	DIP050		
Long Title	HyDeploy		
Short Title			
Keywords	Single Site; Multi-sector/Grid; Heat; Hydrogen; Nat. Gas; Fuel Generation; Physical Storage; Policy; Energy Strategy Development;		
Location (Town, Region, Country)	Keele	Staffordshire	England
Latitude and Longitude	53.00N		2.27W
OSGB code	SJ 822 453		
Status	Ongoing		
Start Date	2017		
End Date	2020		
Description	The project will demonstrate that natural gas containing levels of hydrogen beyond those in the GS(M)R specification can be distributed and utilised safely & efficiently for the first time in a section of the UK distribution network. Successful demonstration has the potential to facilitate 29TWh pa of decarbonised heat in the GB, and more by unlocking extensive hydrogen use. The UK has committed to substantial carbon savings; heat contributes to a third of its current emissions. Reducing heating carbon intensity via hydrogen over the gas grid provides a customer-focused solution, but is limited by the current tight GS (M) R UK limits. Objectives: The project provides a body of practical, reference able data that is an essential pre-requisite to enable wider deployment of hydrogen and therefore delivery of cost-effective, non-disruptive carbon savings to the customer.		
Sectors	Non-domestic		
Funding Sources	Network Innovation Competition		
Budget £	£7.635 million		
Partners	National Grid Gas Distribution, Cadent, Keele University, ITM Power, Northern Gas Networks, Health & Safety Laboratory, Progressive Energy		
Energy vectors	Heat		
Scale (lab/site/small/community/region/national)	Site		
Technologies demonstrated	Hydrogen generation, alternative grid fuels		
Economic models demonstrated			
Other concepts demonstrated	Fuel generation from constrained renewables		
Industry engagement			

Consumer engagement	
Project Reports (incl. links)	Progress report. http://www.smarternetworks.org/project/nggdgn03/documents
Datasets (incl. links)	
Website/social media	https://hydeploy.co.uk/
Information sources	http://www.smarternetworks.org/project/nggdgn03