Project ID	DIP052			
Long Title	HyHouse			
Short Title				
Location (Town, Region, Country)	Sanqhuar Dumfries & Galloway So		Scotland	
Latitude and Longitude	55.34N		4.00W	
OSGB code	NS 729 071			
Status	Complete			
Start Date	2013			
End Date	2015			
Description	Kiwa Gastec was charged with evaluating the risks associated with using hydrogen in a domestic setting. This 'HyHouse' project took place in a two storey, three-bedroom farmhouse in Scotland provided by SSE.  Gas leaks are rare but do occur from time to time from sources as diverse as a defective gas appliance to DIY accidents. The project was designed to prove whether accidental leaks from a pure hydrogen or hydrogen and natural gas mixture supply would have more or less risk attached than a leak from a natural gas supply.  The study involved simulating realistic leaks using five test gases (100% hydrogen, 100% natural gas, and three different mixtures of the two). These gas leak tests were conducted at various rates, and distribution of those gases throughout the house was measured, at three levels of air tightness (to simulate different ages of construction).  Domestic			
Sectors				
Funding Sources	DECC Energy Storage Competition			
Budget £	£400,000			
Partners	SSE, KIWA Gastec, AMEC, SGN, Atkins, National Grid, Air Liquide, BCGA, HSE, IGEM, UK Fuel Cell Assoc.			
Energy vectors	Heat			
Scale (lab/site/ small/community/region/national)	Site			
Technologies demonstrated	Alternative grid fuels			
Economic models demonstrated	Hydrogen economy development			
Other concepts demonstrated	Fuel generation from constrained renewables			
Industry engagement				
Consumer engagement				
Project Reports (incl. links)	https://www.kiwa.co.uk/uploadedFiles/About_Us/GaC/ Hy%20House%20Report.pdf			
Datasets (incl. links)				
Website/social media	http://sse.com/newsandviews/allarticles/2013/11/hy-house-project-			

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	to-explore-hydrogen-safety-risks/ https://services.kiwa.co.uk/energy-carbon-advice/hydrogen/hy-house-kiwa-gastec
Information sources	https://www.gov.uk/government/news/5-million-boost-for-energy-storage-innovation?utm_source=rss&utm_medium=rss&utm_campaign=press-release-5-million-boost-for-energy-storage-innovation