

Project ID	DIP045		
Long Title	Greenwatt Way		
Short Title			
Keywords	Small-scale; Town; Domestic; Electricity; Heat; Solar PV; Solar Thermal; Bioenergy; Heat Pumps; District Heating; Social Impacts;		
Location (Town, Region, Country)	Slough	Berkshire	Scotland
Latitude and Longitude	51.50N	0.60W	
OSGB code	SU 966 793		
Status	Complete		
Start Date	2008		
End Date	2010		
Description	<p>Greenwatt Way is a development of 10 homes constructed to Code Level 6 of the Code for Sustainable Homes and is part of a two-year monitoring research project to understand the real life, day to day experiences of low carbon living.</p> <p>The project comprises terraced and detached houses and one-bed flats. The initial design phase was constructed to a high fabric performance specification in either lightweight concrete block cavity wall or lightweight timber frame. Both construction methods were included to explore different building techniques and their performance.</p> <p>The houses have a very limited heating demand, in the region of 80% less than homes built to 2006 building regulations. An energy centre was constructed on site to test a variety of renewable energy supplies, including biomass boilers, ground source heat pumps and air source heat pumps. Photovoltaic panels are used on the roofs of all properties.</p>		
Sectors	Domestic		
Funding Sources	Internal (SSE)		
Budget £	£3.5 million		
Partners	SSE, Slough Borough Council, NHBC, BRE, Reading University		
Energy vectors	Electricity, Heat		
Scale (lab/site/ small/community/region/national)	Small		
Technologies demonstrated	Smart meters, heat pumps, solar PV, low energy buildings, heat networks, biomass boiler		
Economic models demonstrated			
Other concepts demonstrated	Post occupancy studies		
Industry engagement			
Consumer engagement			
Project Reports (incl. links)	Paper:		

	<a href="https://www.reading.ac.uk/web/files/tsbe/burzynski_tsbe_conf_2010.pdf">https://www.reading.ac.uk/web/files/tsbe/burzynski_tsbe_conf_2010.pdf</a> Paper: <a href="https://hydrogenoevedev.nrel.gov/pdfs/progress11/v_k_2_swamy_2011.pdf">https://hydrogenoevedev.nrel.gov/pdfs/progress11/v_k_2_swamy_2011.pdf</a> Paper: <a href="https://www.sciencedirect.com/science/article/pii/S0360132316301482">https://www.sciencedirect.com/science/article/pii/S0360132316301482</a>
Datasets (incl. links)	
Website/social media	<a href="https://sse.co.uk/help/energy/energy-efficiency/greenwatt-way#item1">https://sse.co.uk/help/energy/energy-efficiency/greenwatt-way#item1</a>
Information sources	As above