



The UK's most ambitious retrofit upgrades programme featuring ground source heat pumps in social housing is set to halve the energy costs of over 130 residents following a landmark scheme delivered by Trent & Dove Housing and Cornish ground source heat pump manufacturer, Kensa Heat Pumps.

Thanks to a pioneering system devised by Kensa Heat Pumps, the scheme will be the UK's largest example of "micro district" ground source heat networks retrofitted into existing properties – all within a challenging three month schedule.

Spread across a total of 15 different sites, the scheme will see the replacement of night storage heaters in up to 133 one and two bedroom bungalows. The heat pumps will be connected to Kensa's innovative "ground source heat network" system, harnessing support funding through a combination of the Energy Company Obligation (ECO) and the Non Domestic Renewable Heat Incentive (RHI).

The "ground source heat network" design sees an ultra-quiet Kensa Shoebox ground source heat pump and new radiator based heating system installed inside each dwelling and connected to a network of communal ground arrays on each site, typically with every pair of bungalows sharing a communal borehole. The ground source heat pumps installed within each property's airing cupboard provide 100% of the heating and domestic hot water requirements, and are expected to halve the tenants' heating costs compared with the electric heating systems that are to be replaced.

Commenting on the scheme, Trent & Dove Housing Director of Property Services, Steve Grocock explains:



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