

Metropolitan Housing Trust - Selston

As part of an ongoing commitment to environmentally friendly housing, Metropolitan Housing Trust specified a total of 7 EarthEnergy™ systems for their housing development at Selston. (An additional 14 bungalows were also included in the scheme.)

Although the overall floor area was around 86m² the houses incorporated high levels of insulation, which meant that each one only required a 5 kW_(TH) heat pump to meet both space heating and domestic hot water requirements.

Because the EarthEnergy™ system was incorporated into the building design at an early stage, the heat pumps could be installed in the most suitable position within each house.

A single borehole was drilled within the footprint of each property directly beneath the location of the heat pump so as to reduce costs by eliminating the need for additional flow and return header pipes. This also reduced the installation time spent on the site.

The EarthEnergy system was installed as part of Powergen's Heatplant scheme.

The EarthEnergy system displays very long life characteristics, requires no routine annual maintenance and drastically reduces CO₂ emissions by 40 – 60%, when compared with a traditional heating or cooling system.



Ground loop Type	1nr borehole per property
Heat Pump sizes	5 kW
Operation	Heating and Hot Water
Client	Metropolitan Housing Trust
Commissioned	September 2003
Heat Pump	Calorex DT5000
Distribution System	Wet Underfloor and Radiators