

**Geothermal Radial Drilling
Client Reference**



Client:	Mr & Mrs R. Mostyn
Address:	Hemel Hempstead
Type of building:	Terraced Cottage Approx: 1,500 sqft
Previous heating system:	Gas fired boiler
Heating system:	Newly installed underfloor heating in 70% incl. Lounge, Conservatory, Bedrooms (3) and Bathrooms (2). Existing radiators to be retained.
Heat Pump:	Kensa 12kW CoP 4.0
Heat Pump Installer:	Better Planet Ltd Contact: Mr Stuart Gadsden
Collector req:	8kW
Geology:	Mudstone
Borehole Configuration:	5 Boreholes of 50m length
Operational:	July 2010
Client comment:	<p>I am thoroughly delighted with this installation. There are two aspects to this joy. The long term reduction in energy required to heat the house and the elegant provision of a ground source array using the radial drilling technique. We did not have the land available to do a slinky array and drilling 5 bore holes 15m apart would have been a challenge also. Even if 5 vertical bore holes could have been considered, the disruption and extra expense of connecting them all to the heat pump would have added thousands of pounds to the job.</p> <p>The exciting thing about radial drilling is that it opens up the possibility of ground source heat pumps to tens (if not, hundreds) of thousands of households that could not consider it before. In a future that needs to eke out energy efficiencies, this is nothing less than a breakthrough! It not only makes ground arrays possible to those with a moderate sized garden... its less messy and considerably cheaper than older methods.</p>