

# Ground Source Heat Pumps

Carnon Contracting installed its first Ground Loop system for Heat Pumps at the National Forest Millennium Discovery Centre, in Leicestershire in the spring of 2000. Since then we have been involved in a variety of projects involving Ground Source Heat Pumps and specialise in the below ground aspects of the technology.

We install horizontal and vertical loop arrays and all of the associated pipework back to the pump.

Our experience includes 40+ borehole systems for large corporate clients and 1-4 borehole systems for domestic heating projects.



*Retrofitting Domestic Properties with GSHP at Ludgvan Nr Penzance for Penwith Housing Association and Powergen*

We carry out all the below ground works required including boreholes to depths in excess of 70m, installing and grouting the vertical loops, trenching and pipe fitting and charging and commissioning of the ground loop.

All the pipework is HDPE or MDPE pipe with a design life in excess of 50 years and is joined by electrofusion techniques.

During the pipework installation procedure the system is pressure tested to ensure its integrity.



*Geothermal heat pump system installation in Tolvaddon, Cornwall*

We have a close relationship with local Heat Pump suppliers and can liaise with the supplier to ensure correct matching of the heat pump to the ground source system.



*Installation of Vertical Loop Boreholes at Pencoys School, Four Lanes in Cornwall.*



Old Mine Offices • Wheal Jane  
Baldhu • Truro • Cornwall TR3 6EE

**T** +44(0)1872 562011  
+44(0)1872 562013  
+44(0)1872 562017

**F** +44(0)1872 562020

**E** [carnon@wheal-jane.co.uk](mailto:carnon@wheal-jane.co.uk)



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