



ONE PLANETS CONSULTANTS LTD

GROUND SOURCE HEAT PUMPS

One Planets Consultants can supply Ground Source Heat Pumps from leading manufacturers in the UK & Europe, from small 4kW single phase units to larger three phase models. Our market-leading range of heat pumps offers the right solution for every project.



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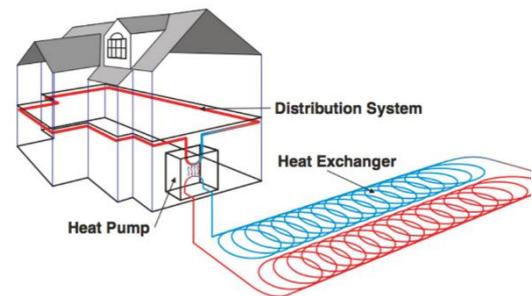
GROUND SOURCE HEAT PUMPS (GSHP)

Using renewable heat stored in the earth is an efficient and effective way to provide all of your heating and hot water requirements, all year round.

At One Planets Consultants, we have the design expertise to specify the most suitable Ground Source Heat Pump to achieve the best performance and best value solution for each project. The designed system will allow GSHP's to provide a total heating and hot water solution, they are very efficient systems and will provide a constant comfortable temperature in your home.

GSHP's do require some electricity to run but typically generate up to *four times as much heat energy as they consume* providing a Co-efficient of Performance (COP) of 4:1, sometimes even higher.

GSHP's use a series of buried pipes commonly known as the 'Ground Loop' to circulate a mix of water and glycol which collects the stored solar energy from the earth and moves it to your building.



At a depth of just one metre, the soil temperature is a consistent 10 – 13°C, a correctly sized ground loop will balance the collection of heat with solar replenishing throughout the year. The ground temperature gently warms the glycol mix as it is pumped around the ground loop before passing through a heat exchanger inside the heat pump.

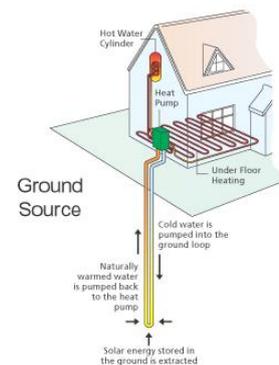
The size of your home and how much heat you require will determine the size of the ground loop that is required. There are a variety of ground loop solutions.



Horizontal Ground Loop. The simplest option; with the pipe buried at 1m, laid straight or in a 'slinky' coil to reduce the length of the trench.

Borehole or Vertical Ground Loop. Where there is limited space, vertical loops can be inserted or bore holes can be drilled to accommodate the required ground loop.

GSHP's work with underfloor heating or radiators or even a mix of both, OPC offer a full design service can specify and design a distribution system to suit you and your property.



FUNDING

Qualifying systems can claim the Renewable Heat Incentive (RHI), this Government scheme started in 2014 rewards adopters of renewable heating technologies such as GSHP's. Switching to a Ground Source Heat Pump saves energy and helps the UK reduce its carbon emissions and meets its renewable energy targets.

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