

# Get paid to halve your heating bills

See how ground source heat pumps can reduce your energy bills, generate you an income and improve your park's green credentials.

By installing ground source heat pumps to provide heating and hot water for holiday lodges, park owners can reduce energy bills and generate an attractive income stream through the Government's Renewable Heat Incentive scheme.

Ideal for groups of existing or new lodges, cabins or chalets, Kensa's ground (or water) source heat pump solution provides each lodge with a complete renewable heating and hot water system, delivering 100% of the lodges needs all year round at a fraction of the cost of electric or LPG heating.

As a further incentive, park owners will receive an income stream from the Government's Renewable Heat Incentive (RHI) scheme for 20 years for each unit of heat produced.

- Clean, safe, reliable renewable heating;
- Save over 50% in heating and hot water bills;
- 20 year RHI income stream for the free renewable heat generated;
- Reduce CO<sub>2</sub> emissions by up to 60%;
- Provides 100% of your park's heating & hot water all year round;
- Virtually maintenance free with 20 year operational lifetime;
- No more fuel deliveries;
- Scalable and quick to install.



## Discover how you can access free heat & money

### For holiday lodges

- Heat pump and hot water tank pre-fitted by lodge manufacturer;
- Kensa supply full design and ground array pipework –can be fitted by your preferred ground works contractor;
- You generate an income through the RHI from all the heat produced each year;
- You benefit from the substantial energy cost savings compared to alternative fuel options.

### Ground Source Heat Pumps vs LPG

- No annual gas safety certificate;
- No annual servicing required;
- No LPG distribution network required;
- No LPG storage tanks - creates additional space for another lodge;
- No planned deliveries required;
- Increased lifetime savings - 25 years+;
- 50% cheaper to run;
- Produces stored hot water so better flow rates and economy than LPG boiler.

How does your heating compare?

	Cost p/kWh	RHI payment p/kWh
Electric	£0.11	-
LPG	£0.06	-
<b>GSHP</b>	<b>£0.035</b>	<b>£0.089</b>

## Example: 50 lodges with slinky ground collectors

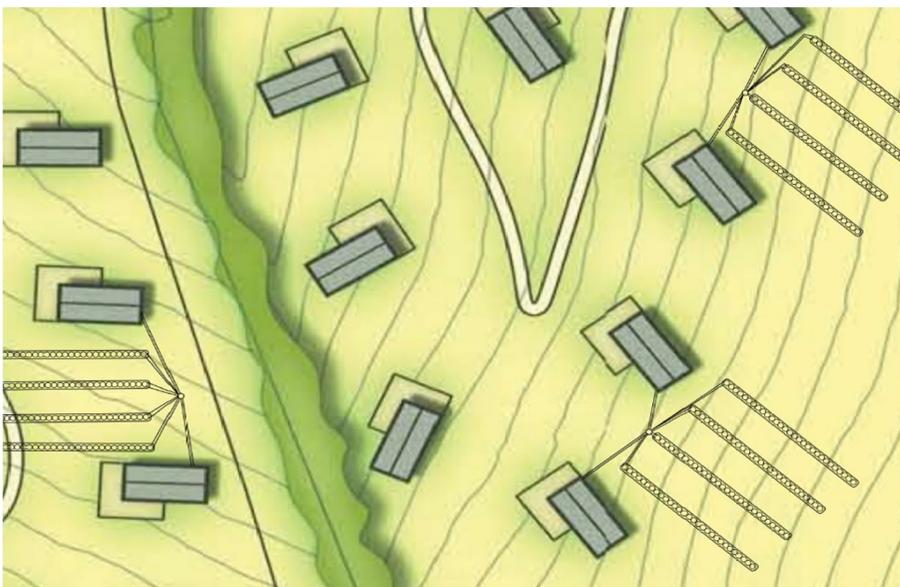
Schemes involving the installation of new holiday lodges –whether for rent or for sale –are ideally suited to the installation of ground source heat pumps, especially where access to mains gas is not available.

The heat pump units and hot water cylinders can be installed by the lodge manufacturer and delivered to site fully fitted, simply requiring connection to the ground array and commissioning.

Where lodges are for private sale the cost of the heat pump will be included in the price of the lodge.

The necessary ground array infrastructure will be provided by the park owner and can easily be installed by ground works contractors already employed to provide other site infrastructure (roads, drainage, etc).

Therefore, like the LPG district network, the install costs and VAT are excluded. However, unlike LPG boilers, heat pumps require no annual cleaning nor gas safety certificates, hence no maintenance costs need to be included in this example.



**Capital costs:** Where lodges are available for sale, only the cost of supplying and installing the ground arrays falls to the park owner. The cost of the heat pump and cylinder would be included in the lodge price. **RHI Income:** Even where the lodge is owned by a private individual, the rules of the RHI scheme allow the park owner to receive 100% of the RHI income. **Energy costs:** These will be borne by the lodge owner, however the park owner may choose to charge an annual "connection fee" to the ground array or a charge per kWh of heat extracted from it. Where lodges are rented as holiday lets, the energy cost savings compared with alternative fuels represent a further financial benefit to the park owner.

Costs:	
Supply of Heat Pumps and Other Materials to Lodge Manufacturer	
Kensa 6kW Shoebox GSHP	50no
215L DHW Cylinder	50no
Power/Heat Meters and Remote Reading equipment	50no
Supply of Ground Array materials and equipment	
50m slinky ground collectors	44no
Manifolds, pipework, fittings, heat transfer fluid	Yes
Technical assistance	
Design and ground works cutting plan	Yes
Onsite project management and support	Yes
MCS accreditation and RHI application	Yes
<b>TOTAL Supply Price</b>	<b>£285,000</b>

Benefits:	
RHI Income	
Predicted annual heating and hot water consumption (kWh)	394,000
Annual RHI income	£35,500
Total RHI income expected over 20 years	£710,000
Energy costs	
Presumed electricity cost per kWh	£0.12
Cost per kWh of heat produced	£0.035
Predicted heat pump annual heating and hot water cost	£275
Predicted LPG running costs (based on £0.35/kWh)	£450
Carbon savings per lodge per year (tCO <sub>2</sub> )	1

## Contact Us:

Paul Dennison, Sales Manager

paul.dennison@thekensagroup.com | 07846 045492 | 0845 680 4328

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