

Case Study

Country Cottage, 4kW, Aberdeen

The facts:

Property Type:
Retrofit

Property size:
95 m²

Product supplied:
4kW Kensa Compact
Heat Pump with
single compressor

Application:
100% space heating
within the property

Installation:
Vertical Borehole, closed
loop ground array
1m x 70m deep

Cost Savings:
Approximately 54%
running cost savings
over oil.

Fuel Displaced:
Oil

CO₂ Reduction :
57% saving over oil
(based on data from
DBERR)



This remote country cottage is heated using a Kensa 4kW Compact Heat Pump.

Insulation has been upgraded to reduce heat losses and new, larger radiators were installed. The antique sold fuel stove will remain for added heat in very cold weather, complimenting the Kensa heating system.

It was recommended that the geo-thermal heat source should be via a vertical borehole to overcome the limitations of ground space, primarily due to the cottage being located in a wooded valley.

One 70m borehole comprising a single closed-loop ground array was installed. The 32mm borehole pipes are directly connected to the external one-way manifold.

The Compact heat pump unit is installed in a small utility room under the worktop and next to the washing machine.

Kensa's heat pump, connected to radiators, operates at approximately 300% efficiency (CoP 3) to deliver considerable energy savings when compared with the original oil boiler system.

£Grants

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