

CASE STUDY · DOMESTIC

A farmhouse on Anglesey

One HEATBANK for heat pump, wood and solar

AT A GLANCE

CLIENT
Andrew and June

LOCATION
Anglesey, Wales

PROPERTY
Old farmhouse, fully renovated

HEAT SOURCES
Ground source heat pump, two wood stoves with back boilers, three solar panels

HEATWEB PRODUCT
Xcel HEATBANK thermal store, in the loft

Andrew and June bought an old farmhouse on Anglesey with no gas, no central heating and only open fires and electricity. An Xcel HEATBANK in the loft now provides their heating and hot water from a ground source heat pump, two wood burning stoves and solar panels.

The challenge

The farmhouse needed total renovation: no gas, no central heating, just open fires and electricity.

The couple did not want an oil-fired boiler or an all-electric system. They wanted the flexibility to generate heat and hot water from several renewable sources, as cheaply as possible, and chose a ground source heat pump with its coils laid in their own land.

What we did

- Their heat pump supplier pointed them to the Xcel HEATBANK as the store to link to the ground source heat pump.
- Richard Hanson-Graville listened, worked to Andrew's requirements and advised on the whole system, even the items we did not supply.
- Installed the HEATBANK in the loft, linking the heat pump, two wood burning stoves with back boilers and three solar panels.



The Xcel HEATBANK thermal store.

What we found

- The HEATBANK provides central heating and hot water from whichever source has heat available at the time.
- It is just as effective with the wood burners in winter as with the solar panels on a sunny day.
- The heat pump qualified for a Ground Source Grant and for the Renewable Heat Initiative, which pays a fixed income for every kilowatt-hour of heat produced.

1
ground source heat pump, its coils laid in the farmhouse land

2
wood burning stoves with back boilers

3
solar panels

The outcome

- A warm and cosy farmhouse, heated without oil or an all-electric system.
- Heating and hot water from a combination of ground source heat, wood and solar.
- Advice that covered the whole system, not just the HEATBANK.

> "Quite simply, the HEATBANK does exactly what I had been told it would do. We can use whatever heat is available at the time and it is just as effective when using the wood burners in winter, or on a sunny day using the solar panels."
>
> **Andrew, Anglesey**

About Heatweb. Heatweb Solutions is a UK provider of engineering support for heat networks and commercial HVAC: monitoring, fault diagnostics, technical compliance, optimisation, commissioning and maintenance.

Talk to an engineer

The full case study: www.heatweb.co.uk/blog/case-study/the-heatbank-comes-to-anglesey/

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