

CASE STUDY: SHROPSHIRE RETROFIT GROUND SOURCE HEAT PUMP INSTALLATION

Alan Terrill lives in a timber-framed property in Shropshire which was previously heated by an LPG gas boiler and LPG gas fire. Having been interested in renewable energy since the early 70's, when Mr. Terrill visited the Ice Energy stand at a self-build show in 2001, he was impressed with what he saw.



"With a new house and very inefficient LPG boiler in it, I decided it was time to investigate ground source heat pumps further. There were very few companies selling these products when I first met Ice Energy but they used what looked to be well made Swedish equipment and were friendly without being too pushy or making extravagant claims. At the time there were no renewable energy grants available so I just took the plunge."

Using a local contractor to dig the groundworks which accommodates the ground loop, Mr. Terrill then re-plumbed the house and connected the heat pump himself with some help from the Ice Technical Support Team. "In the early days I phoned for advice a few times and received very good service indeed."

Mr. Terrill has been extremely pleased with his heat pump and has found the performance to be excellent even during harsh winters. "The heat pump provides 24 hour, year round heating. I never run out of hot water and the house is never too hot or too cold. I also don't have to worry about how I'll cope if it gets really cold. The heat pump coped remarkably well during the winter of 2010/11 and when the temperature plummeted to -15°C, it remained a steady +18°C.

KEY FACTS

Property type:
Timber-framed property built
in 1973 and located in
Shropshire

Product installed:
IVT Ground Source Heat Pump
with trench system for Ground
Loop

Distribution system:
Radiators

Previous heating system:
LPG boiler system

Cost savings achieved:
Estimated £1,000 per annum

In terms of cost savings, Mr. Terrill is seeing impressive results. "It's difficult to accurately list the cost savings as so many things have changed i.e. before the heat pump I only had the heating on in the morning and evening and froze during the day. However, as far as I can calculate, I am saving around £1,000 per year so the heat pump has long since paid for itself. I also have no big surprises on the electricity bills which have been quite consistent."

"Now I've had the heat pump for nearly 10 years, I can confidently say it works. It's comfortable to live with and needs next to no maintenance. Having spoken to friends it appears mine is the only heating system which works in all weathers, so many of them have changed their opinion of heat pumps altogether."

To find out more about how heat
pumps can benefit you, call us free
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