



Geo Green Power

A shared family vision for sustainable living

An aging boiler and an environmental calling

For Nottinghamshire-based Barbara Green, the decision to transform her property's energy infrastructure came from a deeply personal mix of ecological responsibility and practical necessity. She wanted to drastically reduce her carbon footprint and live more sustainably, but her traditional heating system was standing in the way: her domestic boiler had hit 18 years of age. It was inefficient, increasingly unreliable, and running on fossil fuels that ran completely contrary to her values.

The ultimate inspiration to act came directly from within her own family. Her daughter had recently undergone a green home transformation, installing a combined system of solar panels, battery storage, and an air source heat pump. Witnessing her daughter's home successfully run on clean, self-generated electricity gave her the real-world proof and confidence she needed to make the leap herself.

Knowing she wanted to invest in a multi-technology setup, she set out to find a trusted, local partner. She required an MCS-certified company that could provide a premium, seamless package,

 **Battery storage size: 11.52kWh**

 **Solar system size: 5.9kWp**

 **Annual output: 5,900kWh**

 **Air Source Heat Pump: 7kW**

"All office and site staff were very easy to communicate with, and were very helpful, polite and considerate. Care was taken with every action, and I felt confident that thought was given to making the systems work efficiently.."

Homeowner
Barbara Green



but she also needed absolute reassurance that her home and roof were structurally suited for modern renewable systems.

The power of complete ecosystem synergy

She chose Geo Green Power, and our team immediately set to work designing an integrated, future-proof ecosystem. From the initial surveys, transparency was the priority - both our office team and site surveyors provided complete clarity regarding processes, layouts, and pricing. A key moment of reassurance came when the property was assessed and confirmed to be well suited for the installation of high-yield, modern solar PV modules.

To maximise her energy independence, we designed and deployed a multi-technology ecosystem:

5.9kWp Solar PV System: Engineered to generate 5,900 kWh of clean electricity every year.

11.52kWh Battery Storage System: Installed to capture peak daytime generation, keeping the home powered through the evening.

Vaillant aroTHERM plus 7kW Air Source Heat Pump (with 45L cylinder): Completely replacing the 18-year-old fossil-fuel boiler with an incredibly efficient, low-carbon thermal network.

Huge lifetime savings and absolute peace of mind

The combination of these systems has delivered profound environmental and financial freedom. Over its operational lifespan, this integrated system is projected to save Barbara over £50,000 in energy bills (based on today's energy prices and expected future system performance). Because the solar and battery bank absorb the running costs of the new Vaillant heat pump, her long-term savings are vastly optimised.

To further improve the financial viability of the project, Geo Green Power fully managed her application for the government's Boiler Upgrade Scheme (BUS), seamlessly securing a £7,500 grant that was deducted straight from the project cost.



Take control of your energy



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