

CHATSWORTH COTTAGE GOES GREEN



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PROJECT DATA

WPF10 Ground Source Heat Pump / 200litre buffer / 500litre DHW cylinder
Russian Cottage, Chatsworth Estate
Calton Lees
Derbyshire

CONTRACTORS

David Calladine Builders
Ashbourne, Derbyshire
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Martin Hellaby Plumbing
Ashbourne, Derbyshire
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ESTATE LOOKS TO RENEWABLE ENERGY



"The solution for Russian Cottage was a ground source heat pump using land available around the cottage, to install 500m of ground loop.

"The heat pump itself is in a separate out-building 25m from the cottage so the occupants are not disturbed by any running noises.

"All services run in pre-insulated pipe from the dedicated plant room into the property to deliver heat to the underfloor heating and bathrooms."

Martin Hellaby, from Hellaby Plumbing, said: "On past projects David and I have struggled with other manufacturers to get the right design and specification. Stiebel Eltron gave us a prompt response and came up with the perfect solution, with Chris Johnson from the company supporting us from start to finish – he also gave us the confidence that the product would work.

"Chris assisted on site and helped to ensure that this prestigious project ran as smoothly as possible. Stiebel Eltron also invited me onto their training course, where I recognised the quality and technical assistance that comes with the German brand."

Chris Johnson, Stiebel Eltron Midlands Specification Manager, said: "We are delighted to have been able to provide an excellent energy solution for this historic building, which ensured that Russian Cottage retained its charm and appeal.

"The ground source heat pump and cylinders are kept neatly out of site so as not to ruin the cottage's aesthetics and the running operation is extremely quiet, which we knew was vital for a peaceful holiday home of this nature."



Historic cottage's heating and hot water needs all catered for with green energy

An historic cottage in the grounds of the Chatsworth Estate is going green with eco-friendly energy.

Russian Cottage was gifted to the 6th Duke of Devonshire by Tsar Nicholas of Russia in 1855, as a token of their long-standing friendship.

Situated in a secluded location near Calton Lees, the cottage – which was previously home to a gamekeeper and now serves as a luxury holiday home – has undergone an environmentally friendly refurbishment, with a Stiebel Eltron ground source heat pump system providing heating and hot water for the property.

Ashbourne based building contractor David Calladine and Martin Hellaby Plumbing worked closely with Stiebel Eltron to design and install an efficient and cost-effective retrofit system.

The Stiebel Eltron WPF10 single phase heat pump has been linked to a 200litre buffer and 500litre domestic hot water cylinder, which ensures rapid underfloor heating for the property and hot water for bathrooms and the kitchen.



The green energy system replaces an old fire and immersion heater which could not meet the necessary requirements for a holiday home.

The system specification has also ensured that the cottage – which features stunning ornate Russian carvings – retains its original facade and charm.

Mr Calladine, of David Calladine Builders, said: "The cottage has just undergone a major refurbishment and the property owners Chatsworth Estates wanted an environmentally friendly energy system.

"They see green energy as the way forward and have also used biomass technology for other properties.

