

Outline Case Study



Site : Hampshire

A significant manor house of approximately 1440m² over three floors with cellarge.

Challenges :

Listed Grade I.

Previously using 23m³ oil per annum for spatial heating and consuming 96,000kWh of electricity per annum.

Very poor levels of insulation.

Very high standards of making-good required to remove all evidence of trenching.

Indoor swimming pool.

Solution :

Loft insulation via 100mm Thermafleecce Wool battens.

Renovations to sash windows to levels permitted under listed buildings restrictions to reduce draft.

Lifestyle changes to make use of existing wooden window shutters.

Spatial heating and hot water for the main house and heating for the indoor pool via 2 x 40kW Ground Source Heat Pumps.



Source taken from a 1700m surface soil horizontal collector field located in an adjacent paddock. An injection system manifold for 7 loops was used to monitor the return flow. Outdoor pool for this property is heated via 1 x 14kW Air Source Heat Pump.

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