Your comfort, our mission!



Thermo-Floor

heating & cooling since 1986

Renewable Energy Solutions

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A little about us...

We are a leading supplier and installer of Renewable Energy Technologies alongside underfloor heating and cooling systems to the residential, commercial, and domestic sectors, offering the complete solution from:

- Design & Engineering
- Supply
- Project Management
- Installation
- Commissioning
- Servicing

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APPROVED INSTALLER
MCS NICEIC RECC
RENEWABLE ENERGY CONSUMER CODE

Standing the test of time...

Thermo-Floor was established in West Sussex in 1986. In 2011 we became what we are now known as today - Thermo-Floor UK Ltd.

Thermo-Floor are proud to hold the MCS (Microgeneration Certification Scheme) accreditation through NICEIC (National Inspection Council for Electrical Installation Contracting), with all of our work also being covered under the RECC (Renewable Energy Consumer Code) Scheme.

We are now looking to the future and are excited to announce our expansion into new sectors including a Primary Renewable Energy collection. These are cost efficient, energy efficient, renewable energy solutions for business and home.

Natural comfortable warmth...

Our aim at Thermo-Floor has always been to keep new and innovative ideas in the forefront of our business. We ensure our team of designers and engineers are trained to the highest level in all latest skills and techniques, and we are committed to continued development and production of high quality systems, ensuring low energy consumption and maximum comfort.

Our collection includes energy transfer systems from the Sun (Solar Photovoltaic, Solar Thermal) from the air (Air Source Heat Pumps) and from the Ground (Ground Source Heat Pumps).

...Cool relaxing tranquillity

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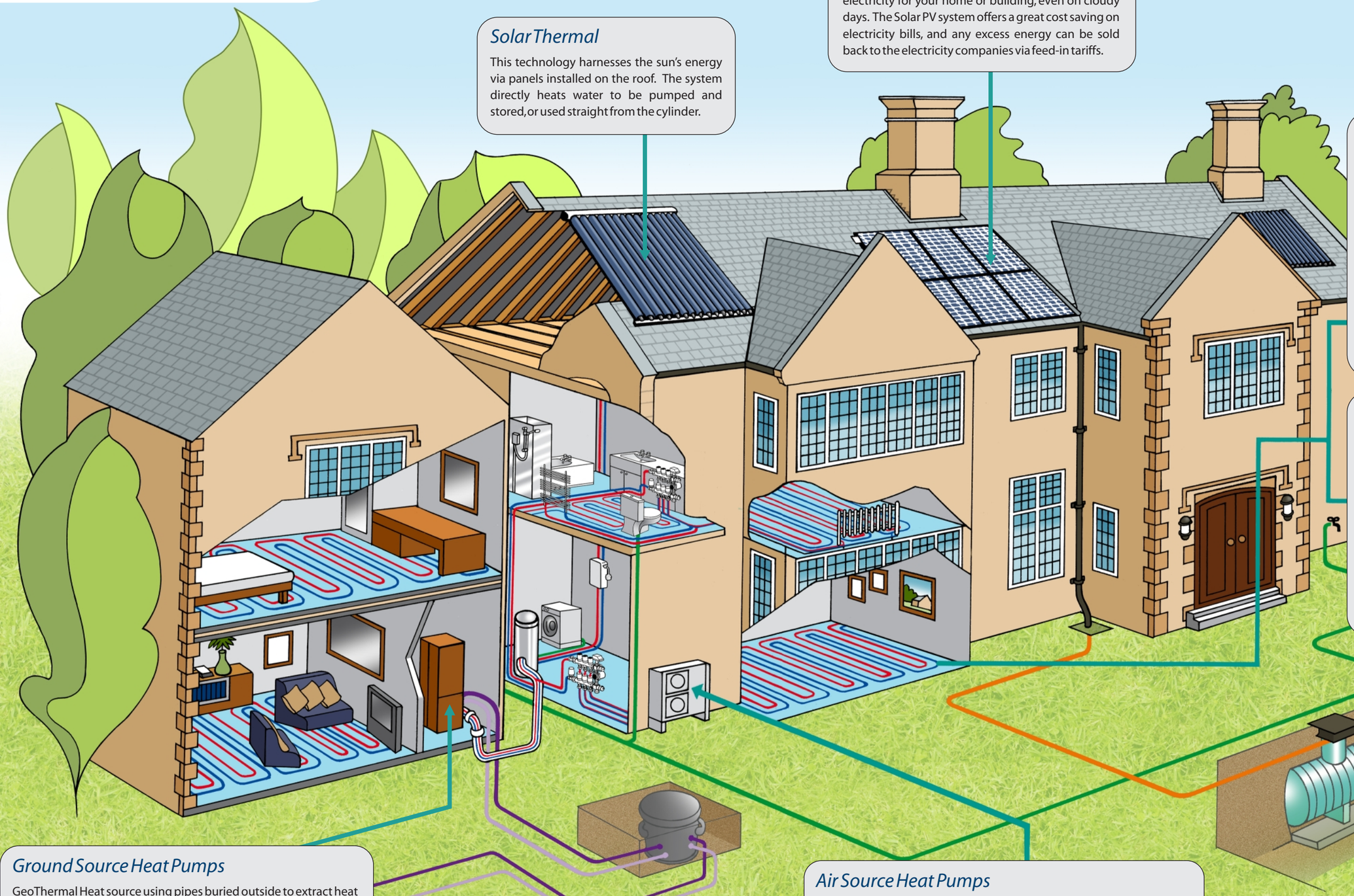
Renewable Energy Solutions

Solar Thermal

This technology harnesses the sun's energy via panels installed on the roof. The system directly heats water to be pumped and stored, or used straight from the cylinder.

Solar Photovoltaic

Another system that uses the sun's energy via panels installed on the roof. This system creates useable electricity for your home or building, even on cloudy days. The Solar PV system offers a great cost saving on electricity bills, and any excess energy can be sold back to the electricity companies via feed-in tariffs.



Underfloor Cooling

This system can be designed in a number of ways to suit your building's specific needs. It can be created as a dedicated cooling system, or used together as part of an under floor heating package, or simultaneous heating and cooling all via our uniquely designed manifolds. The underfloor cooling system works by circulating cool water through pipes in the building's floor. Can be added to existing buildings as retrofit or newbuild properties.

Underfloor Heating

Our core business since 1986, Thermo-Floor have been involved in supplying some of the most pioneering and energy efficient under floor heating systems for commercial, residential and domestic properties. The system works by circulating warm water through pipes in the building's floor. Our systems can be added to existing buildings as retrofit (subject to suitable energy assessment reports carried out) as well as to new build properties.

Ground Source Heat Pumps

GeoThermal Heat source using pipes buried outside to extract heat from the ground. This energy is then transferred to produce hot water which is then stored and used to heat radiators or under floor heating systems. These can be Vertical bore holes or Ground Loops meandering about 1m under ground.

Sourced from a selection of well known manufacturers for your peace of mind we can design, install and commission your Ground Source Heat Pump.

Air Source Heat Pumps

External wall or floor mounted units which extract heat from the air either inside or outside your property. This energy is then transferred to heat water and used to heat your property or it can be stored to be used as hot water throughout the building. This process can be reversed to draw heat out of your property providing you with passive cooling.

Sourced from a selection of well known manufacturers for your peace of mind we can design, install and commission your Air Source Heat Pump.

Rain Water Harvesting

This technology collects rainwater from the roof of a building which is then filtered and stored in an underground tank. The collected water can be used for flushing toilets, used in washing machines and for outside uses.

Air source heat pumps with underfloor heating
Barn development in Northamptonshire

Thermo-Floor have been working closely with a prestigious developer since 2007 -designing, supplying and installing the under floor heating for their luxury country homes. Totalling some 25 projects to date, the luxury homes are set in idyllic rural village locations across Cambridgeshire, Lincolnshire, Northamptonshire and Rutland require the highest specification product and workmanship in the installation of both the underfloor heating and high-end control systems.

As part of our new renewable energy product portfolio from 2012, Thermo-Floor have now also designed, supplied, installed and commissioned three projects which included the award winning Danfoss DHP-AQ air source heat pumps alongside the underfloor heating systems. These projects consisted of the following:

- Danfoss DHP-AQ 16Kw air source heat pump with Danfoss Midi control unit
- Thermo-Floor's energy efficient underfloor heating system on the ground floor and smart radiators on the first floor.
- Gledhill 300l domestic hot water cylinder
- Gledhill 300l direct buffer cylinder
- Thermo-Floor comprehensive fully integrated control system



Ground source heat pump with underfloor heating
Thornham Village Hall, Norfolk

Thermo-Floor were involved in the design, supply and installation of a ground source heat pump and underfloor heating for a Village Hall set in on the beautiful North Norfolk Coast. Thornham Village Hall is the heart of the local community and venue for many village activities. Sustainability and renewable energy are high priority for ensuring the future of this community, so Thermo-Floor in consultation with the architect, mechanical consultant and the main contractor assisted in the design, supply and installation of the renewable energy heating system.

This consisted of a Danfoss ground source heat pump with a horizontal collector system, and an energy efficient underfloor heating system. The solution provided by Thermo-Floor has resulted in the hall's underfloor heating system running solely on hot water generated by the ground source heat pump, requiring no additional energy from main supply to run.

This project consisted of the following:

- 1 GSHP system comprising of 1x Danfoss DHP-L 16kw three phase heat pump.
- 1,000 m of 40mm ground source collector pipe.
- 150m of 63mmØ under ground reverse flow header pipe.

Supplying 3 LTS-N (low temperature) manifolds with enough hot water to feed 2065 metres of our 16 x 2.0mm PE-RT tubing, covering 340m2.

Natural Heat Recovery from the ground and transferred through to the UFH system.





Solar photovoltaic panels with air source heat pump
The Barn, Brownsover, Rugby

Thermo-Floor's new renewable product portfolio includes Solar PV Systems. One of our first systems was installed in August 2013, on a new build home in Rugby. The customer's brief was to make the home as energy efficient as possible through the use of renewable energies – To utilise one pitched roof space to hold solar panels, and also to install an air source heat pump. Thermo-Floor met the brief by fitting the roof with its maximum capacity of 9 x 250w within roof panels. Also fitted was a state of the art Mitsubishi Ecodan air source heat pump.

This project took Thermo-Floor 2 days to install and commission the solar photovoltaic panels, and has resulted in the solar panels generating sufficient energy to supplement the air source heat pump and other domestic electrical demands.

The air source heat pump was designed and installed to provide domestic hot water as well as provide heat for Thermo-Floor's energy efficient underfloor heating system.

This project consisted of the following:

- 9 x 250w Ubbink in roof type solar photovoltaic panels
- Mitsubishi Ecodan 14kW air source heat pump
- 1 x 300l Mitsubishi hot water cylinder
- 1 x 100l Gledhill direct buffer tank
- Thermo-Floor energy efficient underfloor heating system





Underfloor cooling
Yas Island Marina Yacht Club, Abu Dhabi

Thermo-Floor's overseas work began with this high profile contract for an under floor cooling system for the Beautiful Yas Island Marina Yacht Club, Abu Dhabi, set only a stones throw from The Yas Island F1 Motor Circuit. This iconic building was architecturally designed and set in landscaped grounds and now enjoys world-wide recognition.

Thermo-Floor's Involvement:

This prestigious client demanded only the best design and product innovation for this project, and to meet the brief of an underfloor cooling system for the main lobby and entrance foyer.

Thermo-Floor designed, supplied and project managed on-site the installation and commissioning of a bespoke and dedicated passive underfloor cooling system using three of our unique type RU-WW manifolds. These bespoke manifolds were specifically designed and manufactured to fulfil this particular project's brief. Each manifold is fitted with integral plate heat exchangers which increase the temperature of the cooling water provided from the chiller plant. With over 6000m of our unique 20 x 3.4mm underfloor cooling tube, serving an area of 605m2.





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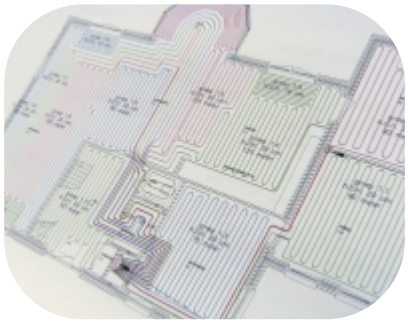
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A design quote without obligation

Thermo-Floor would be happy to provide you with a no-obligation quote. Just send us the plans and elevations of your construction drawings as well as your energy surveys etc. If you subsequently choose our system, we can provide an installation drawing of the underfloor heating system for you, free of charge.

For "self-installers" there is a technical help line available during working hours.



*Your Warranty**

Your floor heating pipe is covered by our comprehensive 50 year warranty with a 10 year consequential loss clause, a 5 year system warranty and a 2 year warranty on the manifold components. We also give you an unlimited warranty on our calculations and design. Heat pumps are backed by the manufacturer's own warranty.

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* Warranties are subject to terms and conditions.