

EARTHENERGY™



National Energy Foundation



This very low energy 430m² building was designed for the National Energy Foundation, to be an example of how renewable energies can be incorporated in to new build commercial buildings.

Renewable technologies used within the scheme include a wind turbine, Photo voltaic, solar thermal array and an EarthEnergy™ system.

The EarthEnergy™ system utilises a 13kW_(TH) Viessmann ground source heat pump to meet the space heating requirements of the building. Renewable energy from the ground is collected by a series of five looped pipes (known as slinkies) which are buried in land adjacent to the building.

The EarthEnergy™ ground source heating installation was partially funded by the DTI's ClearSkies renewable energy grant scheme.

The National Energy Foundation have produced a case study of the overall building project, which includes a video clip showing the installation of the EarthEnergy™ system. The case study can be found at the following web site : -

<http://www.natenergy.org.uk/phase2.htm>

Ground Loop	<i>Trenches</i>
Heat Pump	<i>13 kW Viessmann</i>
Distribution System	<i>Wet underfloor and low temperature radiators</i>
Client	<i>The National Energy Foundation</i>
Mechanical & Electrical	<i>P Chester and Sons</i>
Commissioned	<i>January 2004</i>