

EARTHENERGY™



Pencoy's School



Pencoy's school at Four lanes in Cornwall, is the first PFI funded school in the UK to benefit from a GeoScience EarthEnergy ground source heating system.

The EarthEnergy system was designed by GeoScience Limited to provide for all the heating requirement to the wet underfloor heating system within the building.

With an overall floor area of ~1100m² to be heated, the underfloor distribution requires around 60kW_(TH) of heating.

The EarthEnergy system comprises ground loops installed in to two arrays of eight boreholes drilled through granite and clay to meet the heating load. Viessmann water to water ground source heat pumps supply all of the heating to the underfloor heating.

Ground Loop	<i>12 x 17 metre boreholes</i>
Heat Pump	<i>60 kilowatt Viessmann</i>
Distribution System	<i>Wet Underfloor</i>
Client	<i>Pencoy's School</i>
Mechanical & Electrical	<i>Lorne Stewart</i>
Commissioned	<i>September 2003</i>