

EARTHENERGY™



Regents Park, London



The new Invertebrate House at the London Zoo is a high profile, low energy building. The EarthEnergy system will provide cooling to the air supply being used to control the temperature of the high mass TermoDeck floors and ceilings.

Four vertical boreholes were drilled in the London Clay just adjacent to the building. Closed loop, high density, polyethylene pipes grouted into each borehole are manifolded together and taken underground to the integrated Beutot EarthEnergy water source heat pump unit. Chilled water is supplied to the TermoDeck air intakes. The system also has the option of running in passive cooling mode - with the ground water by-passing the heat pump and being fed directly to the cooling battery.

Ground Loop	<i>Boreholes</i>
Heat Pump	<i>12 kilowatt Beutot</i>
Distribution System	
Client	<i>Royal Zoological Society</i>
Mechanical & Electrical	<i>Fulcrum Consulting</i>
Commissioned	<i>February 1998</i>