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# Modelling of Ground Source Energy

In 2003, Cementation Skanska were a major part of an Arup-led team, partfunded by the DTi's Partners in Innovation competition for a research project into the ground storage of building energy.

'The project steering committee comprised: B&Q; Centre for Ground Engineering and Remediation, BRE; Canary Wharf Contractors Limited; South East England Development Agency; Warmafloor; Tarmac Precast; Greater London Authority'

The project investigated Ground Sourced Heat Pump systems (GSHPs) as a means of heating and cooling buildings. The project team included Cementation Skanska, Arup, the University of Birmingham, the University of Newcastle and the Environment Agency.

### Ground Sourced Heat Pump Systems (GSHPs)

GSHPs work by utilising the constant temperature of the ground or groundwater beneath a building (typically 10 to 14°C in the UK) to provide cooling in the summer and/or heating in the winter. GSHP systems typically use a third of the energy consumed by traditional heating and cooling systems.

