

CASE STUDY - LMB Microbiological Laboratory Extension - Cambridge

**170 geo-exchange boreholes
152m deep**

Overview

LoopMaster (Europe) Ltd were engaged by Mitie Engineering Ltd to design and deliver one of the largest Closed Loop geothermal schemes in the UK as part of a hospital extension. The scheme demand is to provide a 1,600 kW peak cooling load which is to be achieved through the installation of 170 geo-exchange boreholes 152m deep and associated ground array.

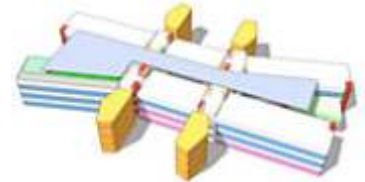


Drilling saw four drilling crews and two grout installation crews all working in close proximity with piling contractors and other groundworkers. Planning and programming was crucial at every stage as drilling progressed and this was all co-ordinated through LoopMaster's experienced engineers both resident on site and from the office.

Scope of Work

After a rigorous procurement process MITIE selected LoopMaster to offer full design and project management services for the prestigious development as part of The Addenbrooke's Hospital extension.

Our role in the project was to carry out a formation thermal conductivity test, provide geothermal modelling, complete a feasibility study, design the system, supervise the drilling and ground array installation and all associated pump and pressure testing.



The scheme is part complete and is within programme. We will update this case study later in 2010 when the second phase of works is completed.



Geothermal Excellence by Design