



CASE STUDY - 40 Eastbourne Terrace, Paddington, London

Geothermal systems can be ideal in refurbishment projects.

Overview

LoopMaster (Europe) Ltd were engaged by Land Securities plc via their M & E Consultant John Noade Ltd to assess problems associated with their Open Loop Boreholes at an existing office re-development. The scheme is to provide 1000 kW of cooling with a 600 kW heating requirement with a desired flow rate of 30 l/sec.



The system came on line in early 2006 and has been in operation ever since.

Down-hole transducers showing data regarding water levels and temperatures at the central plant room were incorporated within the final pump installation.



Scope of Work

We specified a programme of CCTV and geophysical surveys to investigate the reasons behind the borehole failures and put a plan/design together to rectify the situation.



LoopMaster's experienced Site Engineers supervised all on-site remediation works.

The system was remedied and the boreholes successfully tested to deliver/receive 30 l/sec via 2 abstraction and 2 recharge wells each delivering/receiving 15 l/sec each.

The system logs all data for submission to the Environment Agency. LoopMaster currently offer advice, consultancy and design services to Land Securities on many geothermal proposals they are considering.



Geothermal Excellence by Design