

EARTHENERGY™



YHA, Lee Valley



This development of five lodges and reception block, sits in the 10,000 acre Lee Valley Country Park at Cheshunt. The overall scheme required around 160kW_(Thermal) of space heating.

EarthEnergy designed a pond loop heat exchanger, which has been installed on the bottom of the adjacent lake. The loops are manifolded together onto flow and return headers, which go back to a small plantroom in each building and supplies Viessmann water to water, closed loop ground source heat pumps.

When compared with traditional heating equipment, the EarthEnergy™ system reduces annual CO₂ emissions by around 47 tonnes compared to natural gas and around 105 tonnes compared to oil.

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| Ground Loop | <i>Pond loop</i> |
| Heat Pump | <i>Viessmann</i> |
| Distribution System | <i>Wet Under Floor</i> |
| Client | <i>YHA (England & Wales) Limited</i> |
| Mechanical & Electrical | <i>Adshead & Associates</i> |
| Commissioned | <i>December 2003</i> |