

Case Study

Open Loop, Heating & Cooling System at Runnymede Hotel, Egham, London



At a glance

- River water heating system
- 87kW Open Loop Heat Pump
- 450kW purpose built abstraction pump system
- Experienced installer
- Saves 87,000 Co2e per year
- Offsite monitoring

Objective

Nicholls were asked by the 180 bedroom Runnymede Hotel to design, supply and install an Open Loop heating and cooling system to support the hotel's high heating/cooling and hot water demand. Phase 1 of the project to support the hot water system with the ability to expand the system in the future.

About the project

Due to the close proximity of the River Thames Nicholls designed a system to utilise the river water for the Ground Source Heat Pump system. The river pods were designed to move with the height of the river water. The abstraction pumps are capable of extracting enough water to support a 450kW Heat Pump system in the future.

Award winning



This collaborative project received a Highly Commended Award at the South East Energy Efficiency Awards in June 2022. This award recognises the efforts of all those involved in delivering a successful large scale energy saving project, while maintaining excellent customer service that demonstrates a high standard of quality workmanship throughout the project.



"Throughout the design process the Nicholls team were thorough, diligent, open minded, collaborative and communicative. Based on my experienced of working with Nicholls I would not hesitate to consider appointing them again and indeed am starting on a new project with them shortly."

Robert Kenworthy, Group Facilities Director