

Case Study

Award Winning Non Domestic Vaillant GSHP in Solihull



At a glance

- 3 x 38kW Vaillant heat pumps with 2 x 800 litre buffer tanks
- 131,900kg of carbon emissions saved per year (the equivalent of planting approximately 289 trees)
- The unit was built at our site in West Sussex and transported up to Solihull
- 20 year Non-Domestic Renewable Heating Incentive Scheme
- No Chlorines or fluoride are in ground water so the greens will see the benefits

Objective

Nicholls Boreholes were contracted by J Tomlinson builders of Nottingham to design, supply and install 3 x 38kW Vaillant heat pumps with 2 x 800 litre buffer tanks for 5 blocks of flats within a retirement village in Solihull which is expected to save 131,900kg of carbon emission per year (the equivalent of planting approximately 289 trees). The system included 25 boreholes drilled to 120 metres simultaneously by 2 drilling rigs.

About the project

The buildings were originally supplied by electric heating which was extremely expensive so the GSHP's not only supplied 'green' energy but will also generate revenue. The initial project cost the Client in the region of £290K, but as Nicholls is an MCS Accredited Installer our Client will be able to apply for a 20 year Non-Domestic Renewable Heating Incentive for the district heating and will receive quarterly payments equating to approximately £10K per year.

Nicholls were able to provide a minimal switch over time from their existing heating system to the renewable system. As a result of Nicholls installation, J Tomlinson won the Renewable Heat Project of the Year title at the National Energy Efficiency Awards 2019. This accolade, which marks the first national title won by the maintenance, construction and refurbishment specialist, was awarded in recognition of a ground source heat pump installation scheme that is helping Bromford residents living in a sheltered scheme in Solihull save up to 40% on their heating bills. To avoid any disturbance on site, the plant room was built at Nicholls' site in West Sussex and transported to Solihull. As a Vaillant approved installer, Nicholls are also able to offer the client a 7-year free parts warranty and Service Agreement.



"After a rigorous tender process, Nicholls Boreholes were awarded the works to supply and install a very complex bore hole field and energy centre project in Solihull. From the outset it was very clear Ben and his team were a very competent and professional company that could offer us an ideal solution for our client. They embraced tenant consultations and delivered there works on time and on budget. They are a very reliable and transparent with their works. Both J Tomlinson and I look forward to working with them on future schemes and would not hesitate to recommend their services."

Kevin Cox, Operations Manager, J. Tomlinson, on behalf of the end client: Bromford Housing