

CASE STUDY

One Horton Heath, Eastleigh



MGS Thermo-Loops help deliver 100% renewable heat to 2,500 new homes

One Horton Heath in Eastleigh, Hampshire, is a 10-year development to build 2,500 new homes. Committed to using renewable energy only, MGS is proud to be supplying Thermo-Loops and associated ground source products to help provide the homes with heat from ground source heat pumps.

Challenge

One Horton Heath is a 325-acre development near the town of Eastleigh, near Southampton.

Taking a total of 10 years to construct, it will include 2,500 homes of varying sizes, a community centre, primary school and three commercial areas. In addition, a number of connected green spaces will help wildlife to thrive.

One Horton Heath aims to use 100% renewable energy, including using no gas or other fossil fuels to heat all the homes and buildings.

Synergy Boreholes have been appointed as the driller to create the boreholes to be used for the first 381 homes at Lower Acre on the development.



Solution

Synergy Boreholes are drilling 233 6-inch diameter boreholes to a depth of up to 150m.

Each borehole will then be installed with a geothermal loop, filled with glycol which helps extract ambient heat from the ground. This heat is then transferred to a ground source heat pump installed in each property.

MGS are delighted to be supplying Synergy Boreholes with Thermo-Loops, loop weights and thermal grout to install in each borehole to help complete the project.

Products used

1. MGS Thermo-Loops
2. MGS Loop Weights
3. Connect Plus Geothermal Grout

Results

The borehole drilling and Thermo-Loop installations are underway for the first 381 properties.

Beginning in early 2024, the next stage will see header pipes and manifolds installed to transfer the captured heat into the properties.

Over the following years, the installation will expand to include the other 2,000+ properties on the development.

“Synergy Boreholes are proud to have delivered Phase 1 of the One Horton Heath project, which is the largest ambient network for a residential development in the UK. We chose MGS for the supply of loops and grout, not only for the quality of the materials but for the service MGS provide.

Large orders were delivered in a very short timeframe with great customer service. We’ve been using MGS for over 15 years and their quality products are second to none.”

ANTONY JENNINGS, SYNERGY BOREHOLES