

Shenstone Heat Network

Feasibility Study



www.shenstone-heat.co.uk

Pioneering a Low-Carbon Future

The UK has pledged to reach net zero greenhouse gas emissions by 2050. But how do we meet this ambitious target? One way is to rethink how we heat our homes.

According to the National Audit Office, heating the UK's 28 million households contributed to 18% of the nation's emissions in 2021, bringing innovative solutions like heat networks into the spotlight.

Harnessing the power of local, low-carbon heat sources can drastically reduce reliance on natural gas, cut harmful emissions and provide energy security at a time when energy prices are spiralling. So, could a heat network benefit Shenstone?

What Is a Heat Network?

A heat network is an advanced system that distributes warmth from a single, central source to multiple homes and buildings. Instead of each property depending on its own gas boiler, a shared network utilises local sources of low-carbon heat that might otherwise go unused. These include:

- **Ground, Air and Water:** Harnessing natural thermal energy from the environment.
- **Industrial By-Products:** Capturing excess heat from factories, waste or other local processes.

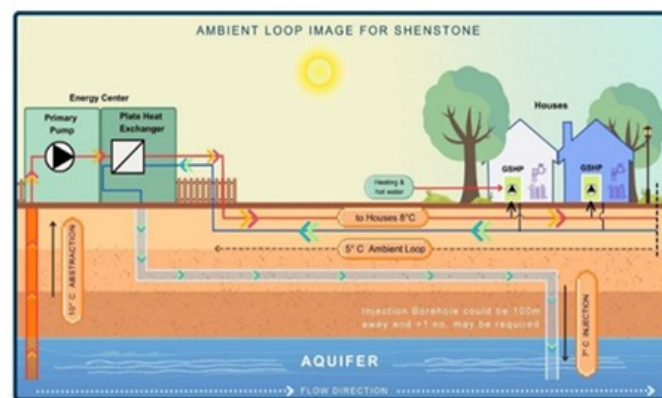
Heat is transported efficiently through a network of underground pipes, delivering sustainable warmth while reducing both carbon emissions and air pollution.

The Feasibility Study

Lichfield District Council and Shenstone Parish Council have commissioned decarbonisation experts HI Group to conduct a comprehensive feasibility study into the viability of a heat network for Shenstone. The study will assess the potential for an ambient loop network that would tap into the aquifer beneath Shenstone to harness natural ambient heat.

Key Aspects of the Study:

- **Existing Infrastructure:** Potential to use the existing pumping station to support an ambient loop heat network.
- **Heating System:** an ambient loop heating system works at low temperatures, cost effectively circulating water around the loop to multiple properties. Each building then increases the heat to the desired temperature via a heat pump in each property.



Timeline: HI Group is set to complete the study by **31 July**, delivering a detailed blueprint for a future installation. This will include all aspects of future operation – technical, economic, financial and legal.

Keeping you up to date

For further information and updates, please visit the website: www.shenstone-heat.co.uk

If you have any questions, please contact us at: hello@shenstone-heat.co.uk

A community event for all residents will be held on 16th July at the Cooper Room Community Centre, Main Street to present the results of the study and to answer questions. Details and timings will be added to the website shortly.