



Heat network efficiency

Client's objectives

We worked with Great Yarmouth Borough Council to improve the efficiency and longevity of their heat networks.

The driving force for the project was to ensure optimal and resilient heating for residents and to eliminate areas of leakage and cold spots from six heat networks.

The project

After initial assessments we determined that in order for Great Yarmouth Borough Council's objectives to be met, the existing boilers supplying the heat networks needed to be replaced.

In order to assess the best course of action we next undertook an options appraisal in order to evaluate the viability of a range of different technologies including solar thermal and biomass boilers.

Through this process we determined that high efficiency condensing boilers were the optimal solution. We then went on to provide bespoke heat system designs for the exact specification and requirements of each of the sites.

Finally we oversaw the installation of the new boilers and separate domestic hot water systems, ensuring that the work was completed on time and with minimal disruption to residents and the council.

Key services delivered

- » Options appraisal
- » Complete system design

- » Project management of installation
- » Optimization of performance and system controls.

Project impacts

Following the installation of the high efficiency condensing boilers Great Yarmouth Borough Council achieved energy savings of 34% per annum (approximately 90,000 kWh) and cost savings of over £3,000 per annum.

They also achieved their objective to provide residents, in particular those on lower income, with reliable and cost effective heating and hot water.

What our client said

"We are delighted with the work Sustain has undertaken so far at Grenville Place. Through completing an ambitious programme of work, they have been able to greatly improve the performance of our heating system. We look forward to the wider impacts to our heat networks upon completion of the work at our other sites."

Graham Hollingdale - Great Yarmouth Borough Council

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