



CONSULTANCY | REPORT

Heat network mechanical surveys

Your HNTAS¹ operational efficiency check

An expert engineer review of the heating assets, pumps and pipework that drive your heat network, giving you clarity on system performance and the actions needed to improve reliability and efficiency.

OBJECTIVES

- ✓ Improve heat network efficiency and cut avoidable heat and energy losses.
- ✓ Optimise mechanical design, system flow and control strategies to boost resilience and responsiveness.
- ✓ Identify practical, engineer-led fixes that reduce operating costs and extend asset life.
- ✓ Align your mechanical setup with best-practice standards, including CIBSE CP1 and emerging HNTAS technical requirements.

What the survey covers

On-site mechanical assessment of:

- Energy centre mechanical assets
- Distribution pipework, valves and controls
- System configuration and hydraulic set-up
- Operating temperatures, flow rates and Delta Ts
- Asset condition & maintainability

Performance review across your heat network:

- Energy centre
- Substations (where applicable)
- District & communal distribution
- Consumer connections, incl. HIUs and dwelling meters

Evaluation of control strategies and operational design, including:

- Heat source sequencing
- Pump control and pressure management
- Risk of bypassing or short-circuiting
- BMS² settings
- Verification of water quality management routines

Identification and prioritisation of improvement opportunities, e.g. temperature optimisation or insulation upgrades.



¹Heat Network Technical Assurance Scheme ²Building Management System
Please note, the report and recommendations are based on CIBSE CP1 Code of Practice (2020) and HNTAS draft documentation as the regulatory requirements are still under consultation.



BOOK NOW

Stay ahead of HNTAS, and start your mechanical survey today.

Scan to book your 30 minute chat with one of the team.

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About Insite Energy

With over 15 years experience, we deliver heat network services to over 40,000 homes across 300 heat networks. With optimal opening hours, and a 94% first-time fix rate by our engineers, our 'Excellent' Trustpilot rating is a testament to the work we provide to developers, housing providers, property managers and residents across the country.