



## Rowan and Hornbeam Heat Network Upgrades – Rationale Summary

### 1. Background

This summary outlines the technical issues identified on the Rowan and Hornbeam heat networks during 2023–2025 and the rationale for the proposed upgrade works planned for 2026–2027.

### 2. Issues Identified (2024–2025)

- Vital Energi (NHG’s heat maintenance contractors) identified poor performance and bypassing within several existing Evinox HIUs, resulting in a high level of reactive maintenance in 2024–2025.
- Residents reported intermittent or complete loss of heating and hot water.
- Existing metering systems were found to be outdated and unable to support effective remote diagnostics.
- Clear Safety, our heat consultant’s assessments in January 2025 identified issues with pumps and differential pressure control across the network.
- An additional specification produced in May 2025 recommended upgrading pumps, pipework and system components to improve flow rates and system performance.

### 3. Proposed Work Package (2026–2027)

- Replacement of HIUs and installation of new heat meters, delivered in phases from upper floors downward.
- Installation of larger sized pumps to meet peak demand and achieve required flow rates.
- Installation of remote monitoring equipment, including Kurve hubs, to support performance tracking and proactive maintenance.
- Replacement of sections of poor-quality network pipework, including unsuitable plastic pipes, with new insulated pipework installed to current standards.
- Reduction of network flow temperatures to improve system efficiency and reduce heat loss.

### 4. Expected Outcomes (2027–2028)

- Improved reliability and continuity of heating and hot water services for residents.
- Enhanced system visibility, enabling remote diagnostics and proactive maintenance.
- Reduced energy consumption and lower carbon emissions in support of Net Zero commitments.
- Reduced heat losses across the network, improving comfort and system efficiency.



WOODBERRY DOWN

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- Compliance with the upcoming Heat Network Technical Assurance Scheme (HNTAS) expected to be introduced in 2027.

### Conclusion

These upgrades are essential for ensuring a resilient, efficient and regulation-compliant heat network that delivers reliable, long-term heating and hot-water services for residents.