



**Kirsty Tweddell**

**Asset Sustainability Manager**

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**gentoo**





## About us

- Housing Association formed in 2001
- 29,000 properties
- 60,000 customers
- 1,100 employees
- Community Benefit Society
- Gentoo Homes





## OUR VISION

**Great Homes. Strong Communities. Inspired People.** For Sunderland.

## OUR VALUES



**Do the  
Right Thing**



**Give All  
You've Got**



**Keep  
Learning**



**Make a  
Difference**



**Work  
Together**

## OUR STRATEGY

**Place**



**People**



**Partnerships**



**Pride**



**Perform**



## **Project Objectives**

### **Primary**

- Removal of natural gas supply from 364 flats in 7 Towers Blocks
- Replace the existing gas fired combination boiler heating and hot water systems with a modern, high efficiency and low carbon alternative
- Upgrade of current electrical system to facilitate switch to all electric systems
- Provide the above on a “Non-Decant” basis

### **Additional Objectives**

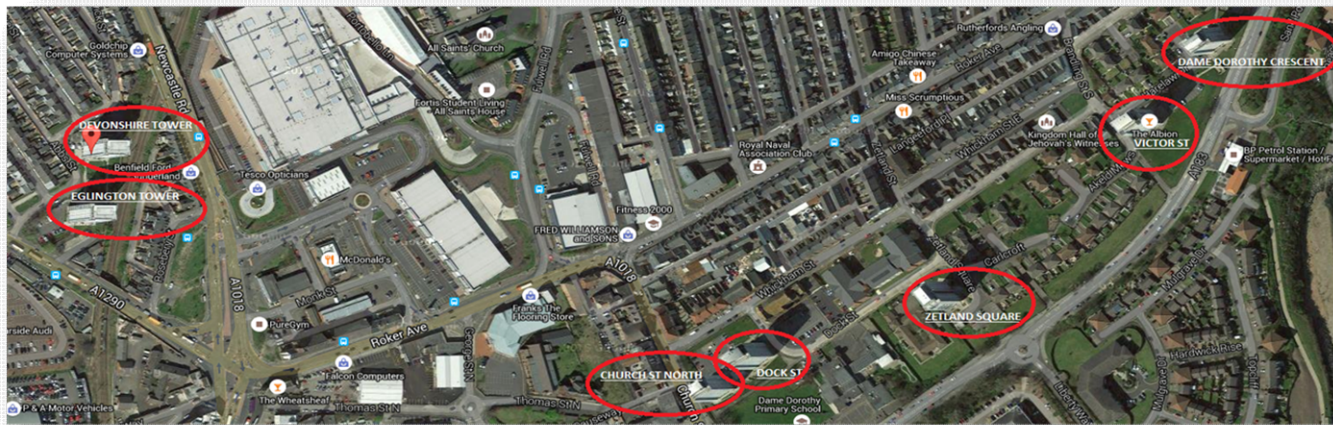
- Replacement of 2 x Soil & Vent stacks
- Installation of new sprinkler system and integration to current alarms
- Upgrade of cabling for concierge





## Proposal

- The Core 364 project utilises Kensa GSHP technology to provide heating and hot water to the 7 tower blocks comprising 364 flats located in Roker and Monkwearmouth
- By taking a partnering approach with ENGIE and Kensa, Gentoo have direct contact with both the manufacturer and the installer of the ground source heat pumps
- ENGIE are principally responsible for all aspects of the project to guarantee the installation, ensuring that the production schedule is in line with the delivery schedule.



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**CORE**  **364**

## Proposal

- External installation of a ground source heat pump linked to an open loop borehole located in the ground.
- Existing combi boilers in each dwelling to be removed and replaced with the Kensa 'shoebox' GSHP unit
- New pipework, re-sized radiators and thermostatic valves
- New Switchee heating controls
- New **9kW SunAmp** thermal battery installed in the cupboard area currently occupied by gas fired combi boiler
- Additional electrical and piping works throughout the tower blocks to support the new system



**9kW SunAmp  
Thermal Battery**





## Questions?

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