

connectedresponse



Network Innovation and Inclusion

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connectedresponse Connected Response Origins

- **Purpose:** To commercialise SH&HW smart control technology developed with London-landlords but not launched UK-wide
- Team experience includes:
 - Original RadioTeleSwitch product design with GEC from 1983
 - London-based RTS equivalent (Cyclo) from 1980's to switch-off in 2015
 - Development of first smart-switching and metering solution for Multi-Dwelling-Units 2015 to date
 - Scot Gov funded smart heating project in Glasgow 2017-18
- Part of Warmworks since December 2021



In-flat equipment

Smart Controller

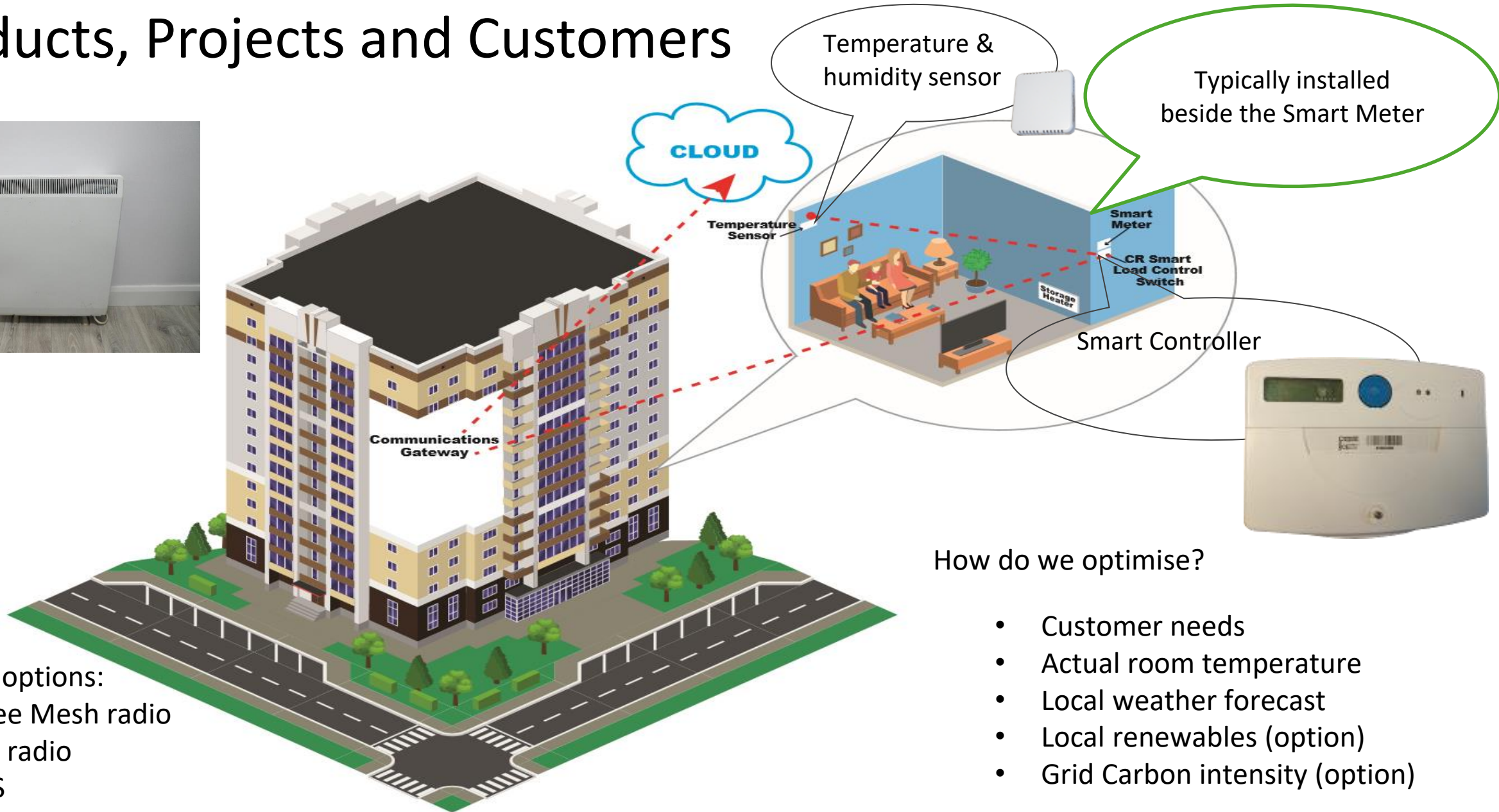


Temperature & Humidity sensor



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Products, Projects and Customers



Comms options:

- ZigBee Mesh radio
- LoRa radio
- GPRS

How do we optimise?

- Customer needs
- Actual room temperature
- Local weather forecast
- Local renewables (option)
- Grid Carbon intensity (option)

Case Study: Wheatley Homes Glasgow - Smart Storage Heating project

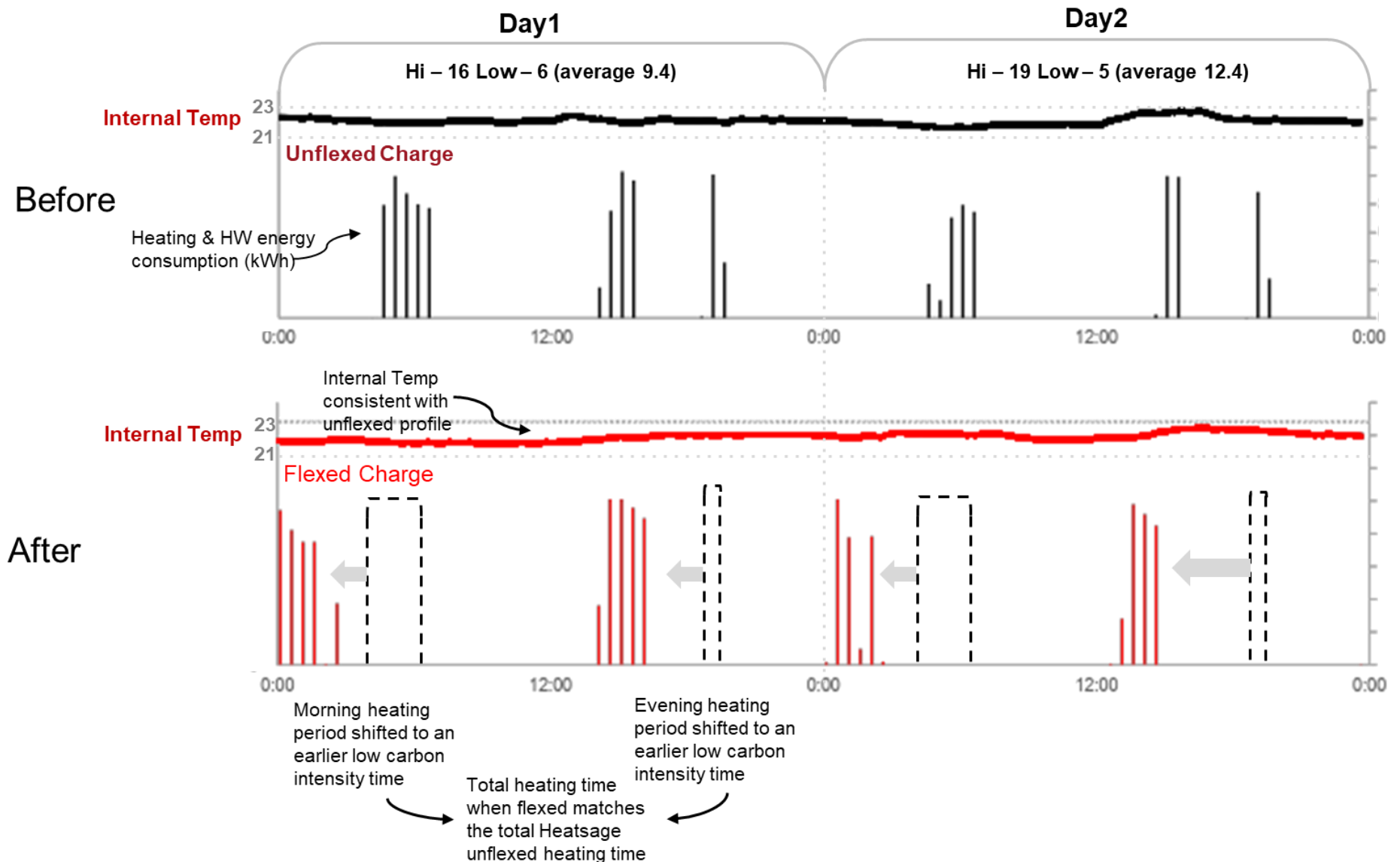
- Wheatley have 10,000 flats with electric storage heating:
 - 8,000 in Multis
 - 2,000 in Low-Rise
- Spring 2021 – “New Heater v Smart Controls?”
- New smart controls:
 - charge to suit tenant needs
 - give more heat on cold days
 - track Living Room temperature
 - eliminate need for electric fires
 - reduce tenant bills
- c8,000 installed as of October 24
- Installed cost c£800 per flat



Results: Carbon Flex charging comparison

These graphs show a comparison for a single (anonymised) flat of a 2 Day Period both before and after the Flexed Charging has been applied

The internal temperature didn't vary outside of the 21-23°C range.



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