

Workshop 1d

# Adoption of Renewable Heating - Resident Engagement

**Speaker:** Jayne Elliott, Switchee

**Chaired by:** Andrew Burke

**Room:** D



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# Switchee Ecosystem

The Switchee ecosystem consists of the smart thermostat, heating control unit, sensors and the Switchee Insights dashboard.



**GSM Data Transmission**



**Industry-Leading Cloud Data Warehousing**



**Calculated Analysis**



**Business Systems Integration**

**Analytics and Live Alerts Dashboard**



Sensor data from Switchee (Temperature, Humidity, Air Pressure, Motion and Light) is transmitted via GSM, analysed and presented through live alerts and metrics on our dashboard.

# Stockport Homes - the project



## Homes as Energy Systems (HaES)

Ground breaking collaborative across GM. Part funded by the European Regional Development Fund the project included installs over 700 energy efficient technologies such as ASHP, GSHP, PV and EWI.

The aim of the project is to prove that, if lots of energy efficient homes are able to create and store small amounts of electricity, they can together make a better, low carbon energy network while also providing costs saving and better thermal comfort to our customers



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# Switchee Devices

## Stock Overview

106

Properties with Switchee installed



## Mould Risk

Properties at high risk of mould /damp:

39 %

(that's 41 properties)

## Heat Stroke Risk

Properties at high risk of heat stroke:

None!

(that's 0 properties)

## Fuel Poverty

Properties at high risk of fuel poverty:

25 %

(that's 27 properties)

# Challenges

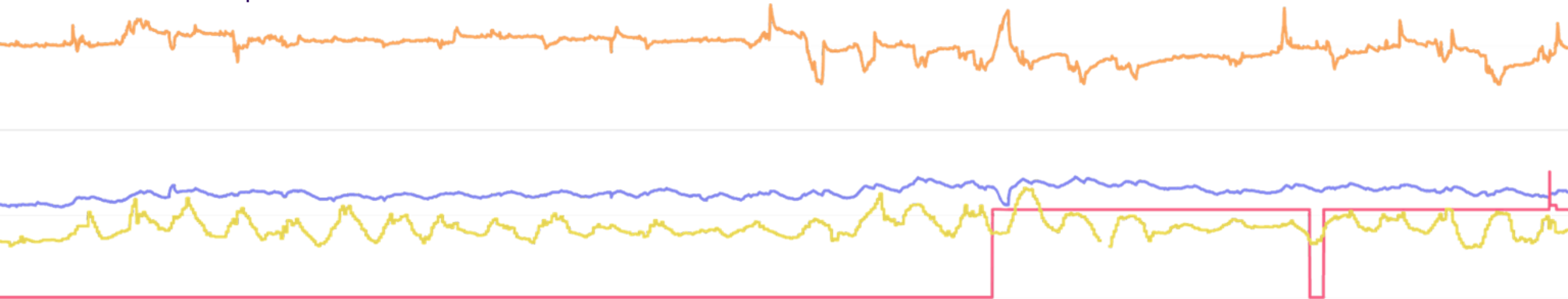
Pandemic forced us to think differently about customer engagement

- Show flat by appointment only (when restrictions permitted)
- Posters and letter drops
- Site presence
- Use of video calling for advice/ demonstrations
- Instructional video and use of QR codes and online user guides



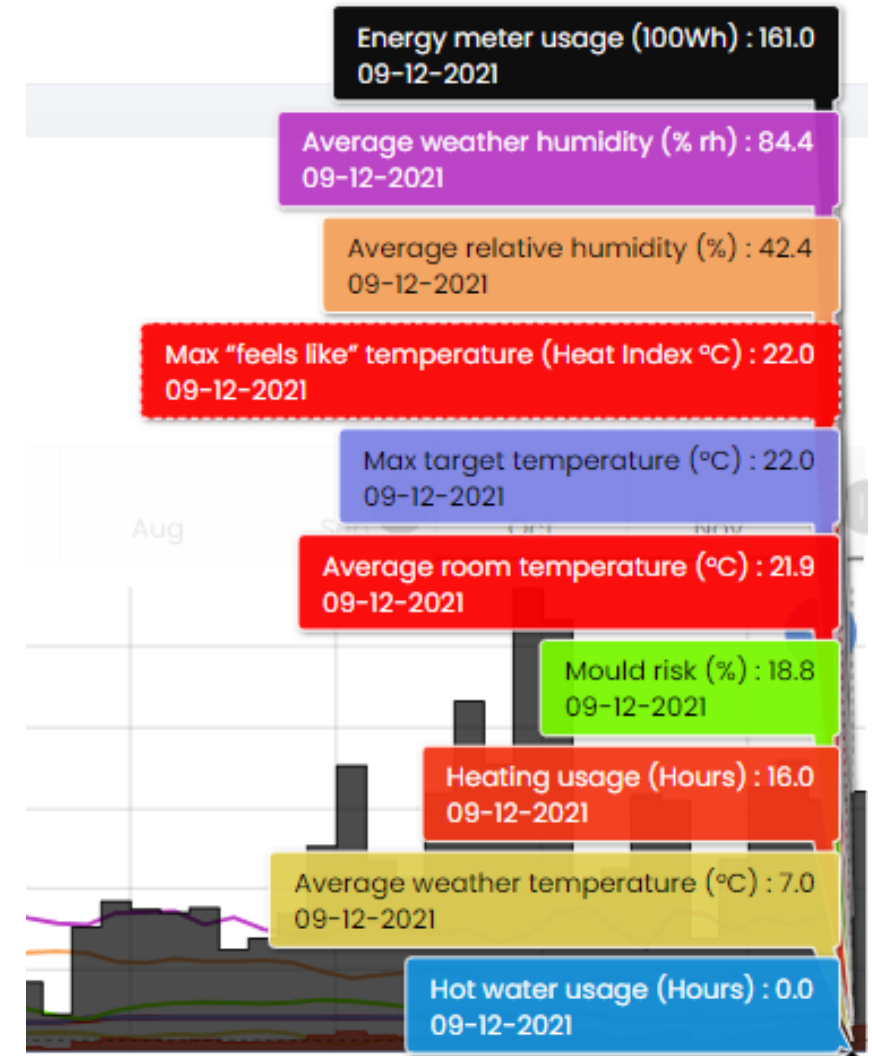
# Spotlight on How Switchee Helps

- Tangible evidence for residents to answer concerns and queries on items such as running costs, temperature and usage.
- Evidence for AM teams and R&M teams to review and satisfy future business cases.
- Identifies issues and vulnerabilities and assists with fault finding. We have done previous schemes without such data and this has been an issue.



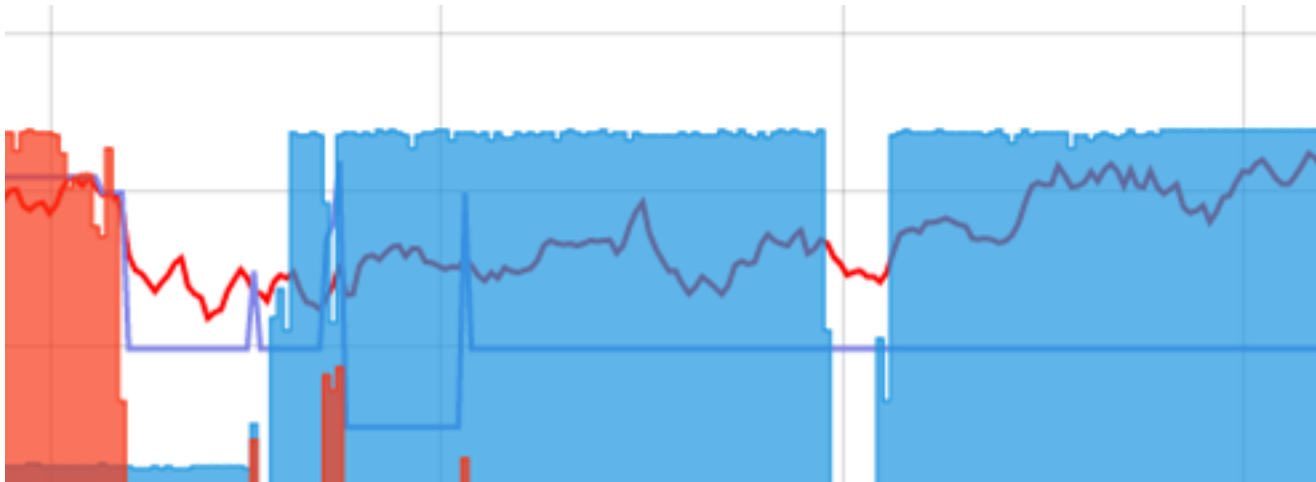
# Real Data Insights Understanding what is happening

- Visualised data to see how people heat their homes.
- Switchee can connect 3rd party monitoring.
- Extremely useful to help with resident engagement.








# Engaging with residents

- Visual representation when heating and hotwater is used helps to quickly answer questions.
- EXAMPLE - Hot Water set constantly in the summer was able to advise how much will have cost.



## Status

 Last Sensor Reading	3 minutes ago
 Actual Temperature	20.5 °c
 Target Temperature	5 °c
 Relative Humidity	62.2 %
 Heating Mode	Manual
 Hot Water Mode	Timer
 Mould Risk	Medium (59%)

## Devices



Switchee (Gen2)  
3580140!



Sensor (MBus)  
Electricity meter

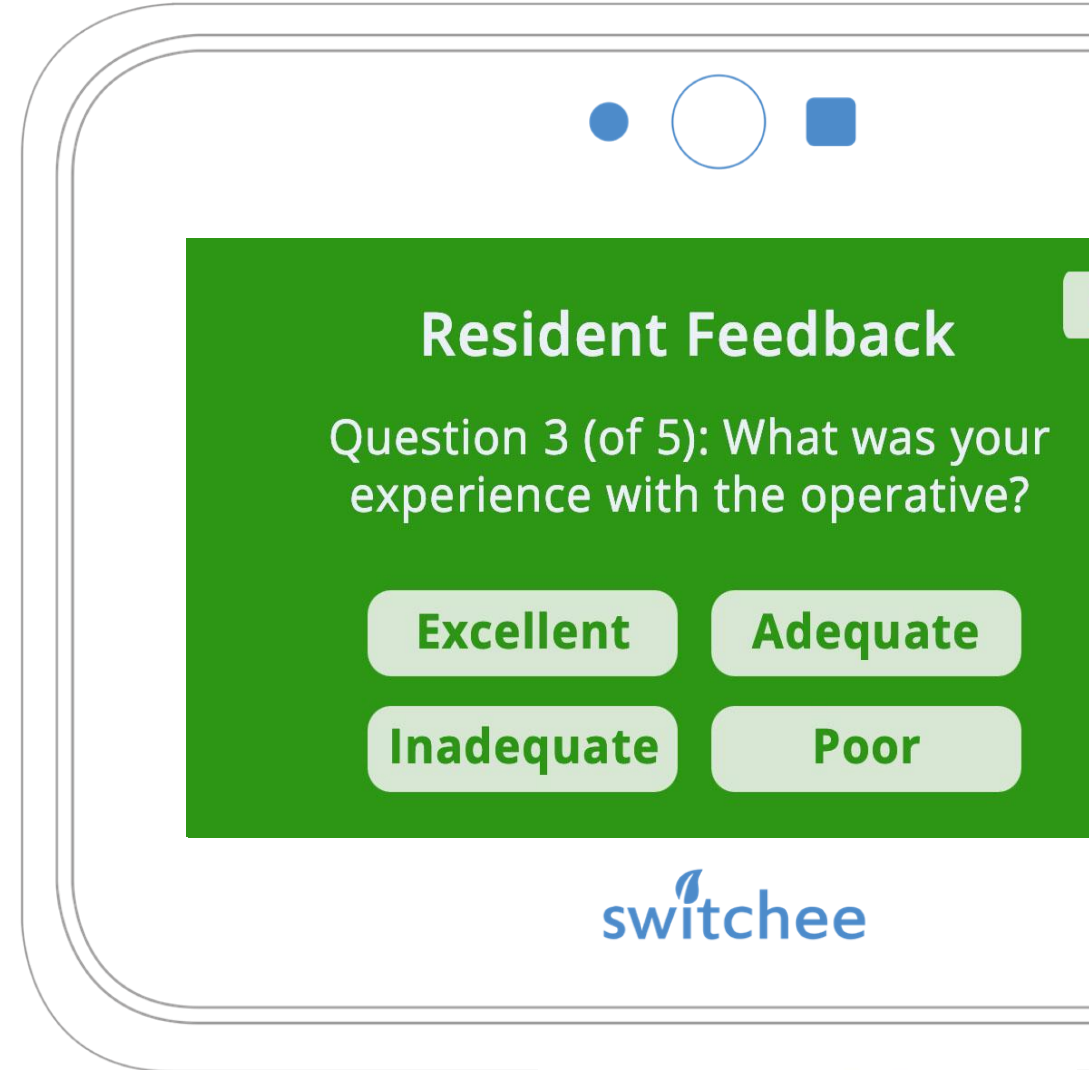


# Talk Directly With Residents - Digitally

- Switchee allows you to communicate with residents through its screen.
- Communication is handled through a GSM allowing you to communicate without WiFi.
- Use Switchee to announce new or important changes and request callbacks directly on a screen in a residents home.

# 90%

Switchee On-Unit Message  
Engagement Rate



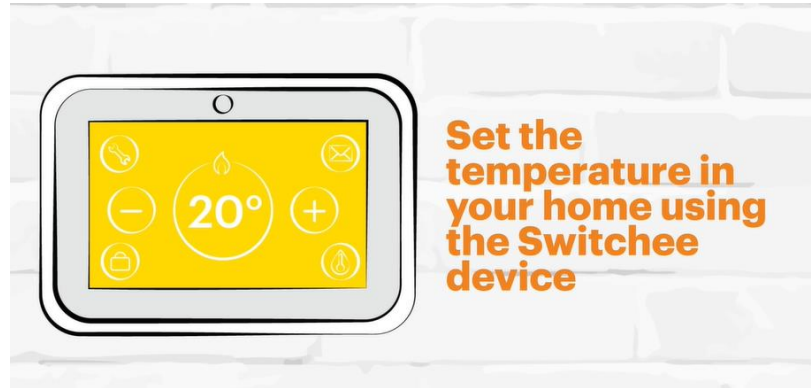
# Success Outcomes

- Surveys – increased comfort levels and heating controllability
- Customer voice – felt listened to and engaged
- Increased Support channels - energy team, One number contact centre team, contractors (including Switchee), added ways to communicate, but not replaced human aspect.
- Online guide - QR code next to the heat meter - directs to the website guide
- Ongoing support - Energy team, Switchee
- Property Insights - CDM and Fuel Poverty Risk aid internal cross team working

# Add more ....

- Ongoing partnership working
- Muscle Memory - revert in winter to how always used heating
- Using what we've learnt from this project and others to improve on the next e.g.
  - Hot Water Demand v Heating
  - Noise difference (both location and sound difference)
  - User Guides
- Switchee heat pump profile (21' day, 18' night)
- Digital messaging - advice and surveys

# Using Digital Methods - smartly



**“Engaging with our tenants is very important to us and the Switchee messaging service gives us a new, exciting way of offering information and support to help residents to afford to heat their homes.”**

**Helen Langley**

*Senior Support Officer*



**“We have seen the benefits in the landlord dashboard data, which has helped us to identify customers who require support in changing the way they use their new heating system.”**

*Asset Sustainability Manager*

**gentoo**



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**"We are using Switchchee's data to understand the extent of fuel poverty in a variety of different types of homes and, with the NEA's help, proactively offering them help where it's most needed."**

**Leila Dottin,**

*Successful Tenancies,*



**“An investment with a payback period as short as 2 years is a no-brainer. For every £1 invested, Flagship makes a net £2 saving and we put £2 in the pocket of our resident. That is a very strong business case”**

Dave Armstrong  
*Flagship CFO*

**Pilot - IoT project** - connectivity, insight through sensors.

**Operational Project** - CDM, Customer Satisfaction, digital messaging, Remote boiler testing, appointment scheduling.

**Rollout - 2,225 per year** through heating replacement programmes, voids, CDM triage, Appointment Scheduling

**£7.3M**

Saved in the next 10 years

**20K**

Switchee Units Being Installed

**£1.8M**

Resident Fuel Bill Savings Per Year



# Thank you.



See you at the  
**next conference!**



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