

Our technology is installed at
Stockwell Park Estate, London



Stockwell Park Estate

Network losses reduced by 53%

Data collected by Guru Systems uncovered network losses of 3,350 kWh per dwelling per year (roughly equivalent to the total annual useful heat requirement) and helped to diagnose issues with the network's Heat Interface Units. The data also inspired site investigations which found missing insulation on pipework into dwellings.

Network Homes then replaced faulty valves, insulated pipework within dwellings, and recommissioned and insulated Heat Interface Units.

Impact

53%

reduction in
network heat losses

47%

reduction in terminal run
temperatures vs ambient
for dwellings with
interventions

60%

reduction in terminal run
losses for dwellings with
interventions, saving
more than 1,700kWh per
annum across the site

£140

saving per household per
year after residents' heat
consumption reduced by
20-30%

The challenge

As both the landlord and energy supplier, Network Homes had previously charged its residents a flat rate for the energy it supplied as it was unable to monitor energy consumption in individual properties across the network.

The solution

Guru Systems installed its technology at the point of generation and across the network in individual properties. This gave Network Homes real-time data on how its network was functioning for the first time.

Data collected uncovered network losses of 3,350kWh per dwelling per year.

Using its machine learning algorithms, Guru Pinpoint helped to diagnose that the Heat Interface Units on site had not been commissioned properly and were performing poorly, resulting in high return temperatures.

The data collected also inspired site investigations which found missing insulation on pipework into dwellings.

With this information, Network Homes replaced faulty valves, insulated pipework within dwellings, and recommissioned and insulated the Heat Interface Units.

The results

The analytics and diagnostics delivered by Guru Pinpoint provided the information required to implement improvements to the Stockwell Park network. These changes resulted in:

- 53% reduction in network heat losses
- 47% reduction in terminal run temperatures vs ambient for dwellings with interventions
- 60% reduction in terminal run losses for dwellings with interventions, saving more than 1,700kWh per annum across the site

As well as significant reductions in heat losses, residents now have control over how much heat energy they use and Network Homes has greater visibility of the overall heat network, more accurate billing and a mechanism for monitoring tenants at risk from fuel poverty.



"The accuracy of the data provided by Guru Pinpoint is outstanding and the efficiency improvements so noticeable. We can even see the exact hour any improvements have been made and their impact on the performance of our network."

Patrick Flynn, Gas Contracts Manager at Network Homes