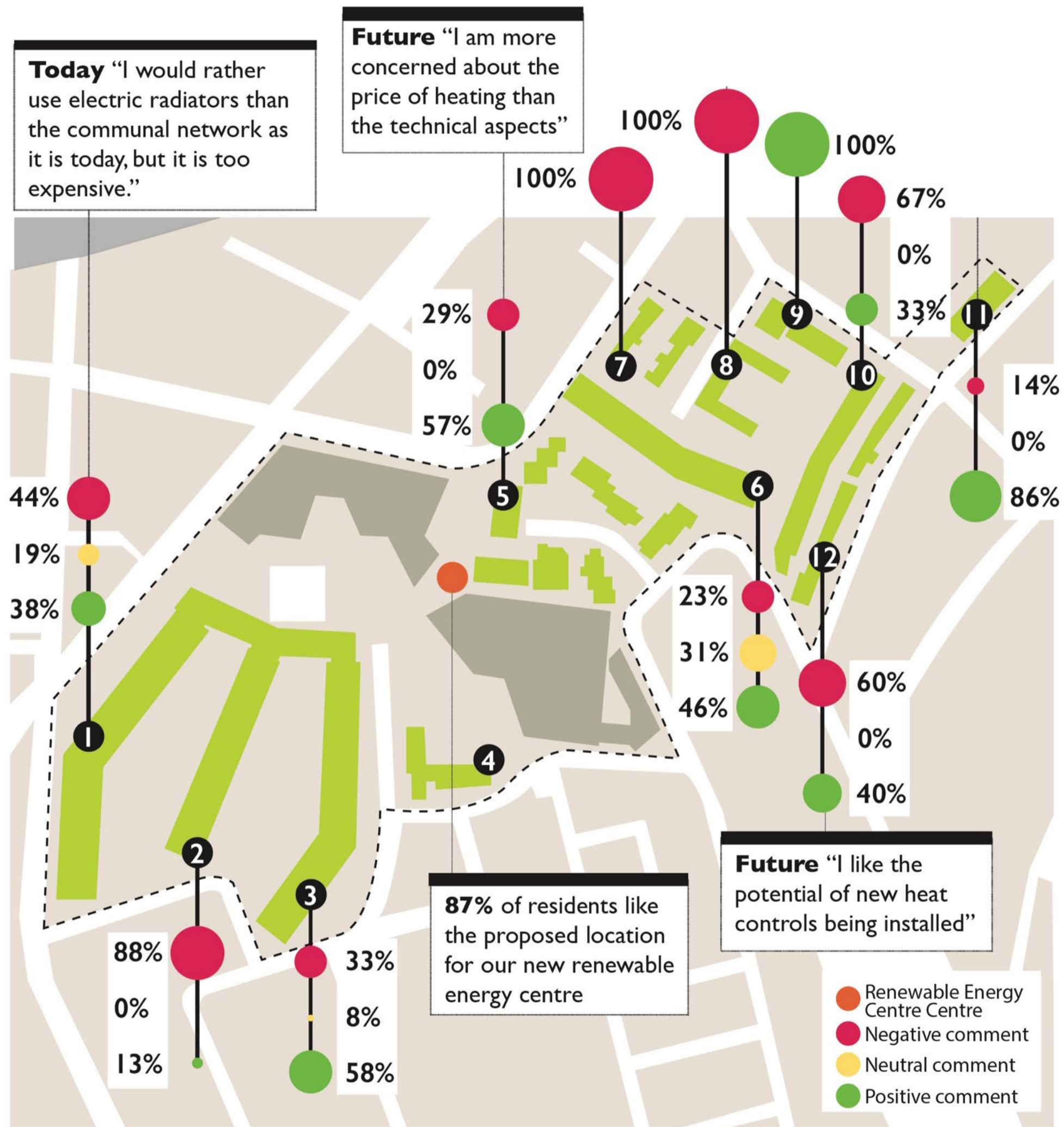


# Finding an estate-wide heating and hot water solution



- |                  |                   |                      |                    |
|------------------|-------------------|----------------------|--------------------|
| 1 Hurstway Walk  | 4 Treadgold House | 7 Morland House      | 10 Camelford Court |
| 2 Testerton Walk | 5 Verity Close    | 8 Talbot Grove House | 11 Camborne Mews   |
| 3 Barandon Walk  | 6 Clarendon Walk  | 9 Talbot Walk        | 12 Camelford Walk  |

## Benefits of an estate-wide solution

- Address all existing heating problems, replace temporary boiler and failing pipework to blocks
- Move away from gas, to become a carbon neutral estate
- Deliver safe, reliable heating suitable for energy efficient homes

The traffic light map (left) shows what residents think of their heating today. The full Resident Summary report is available online.

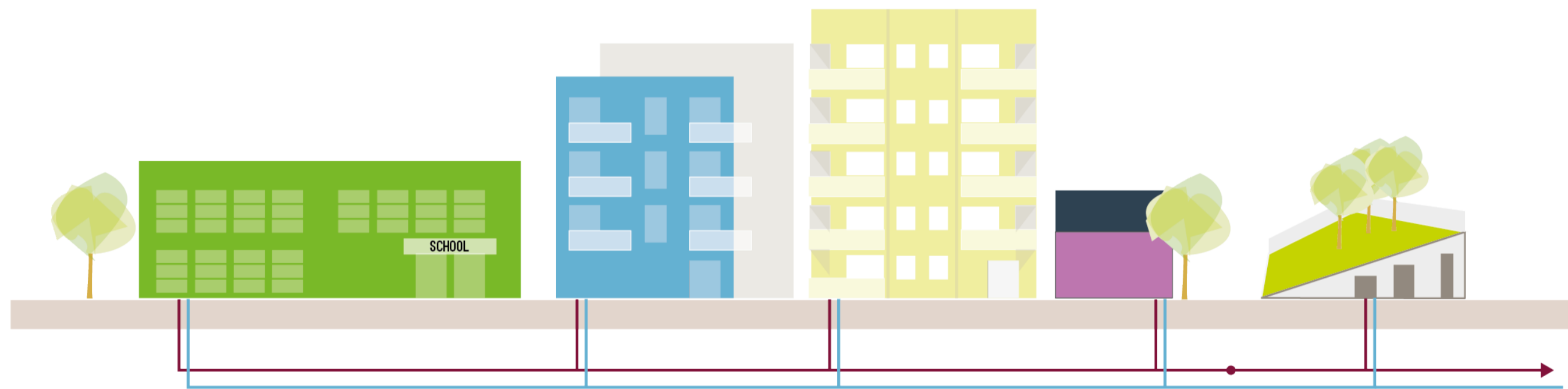
# Renewable Heating – What options were considered?

	Option 1 Electric Radiators	Option 2 Individual Air Source Heat Pump	Option 3 Renewable Heat Network	
Energy Efficiency	✓	✓✓	✓✓✓	How much heat do you get from the energy put in!
Durability & Reliability	✓✓✓	✓✓	✓✓✓	How long the installations will last
Cost to install	£	£££	££	Cost to install heating systems in homes
Cost of heat	£££	££	£	All heating types use electricity, some use less electricity and so are cheaper than others

**Option 3 - A renewable heat network was selected**

## What is a renewable heat network?

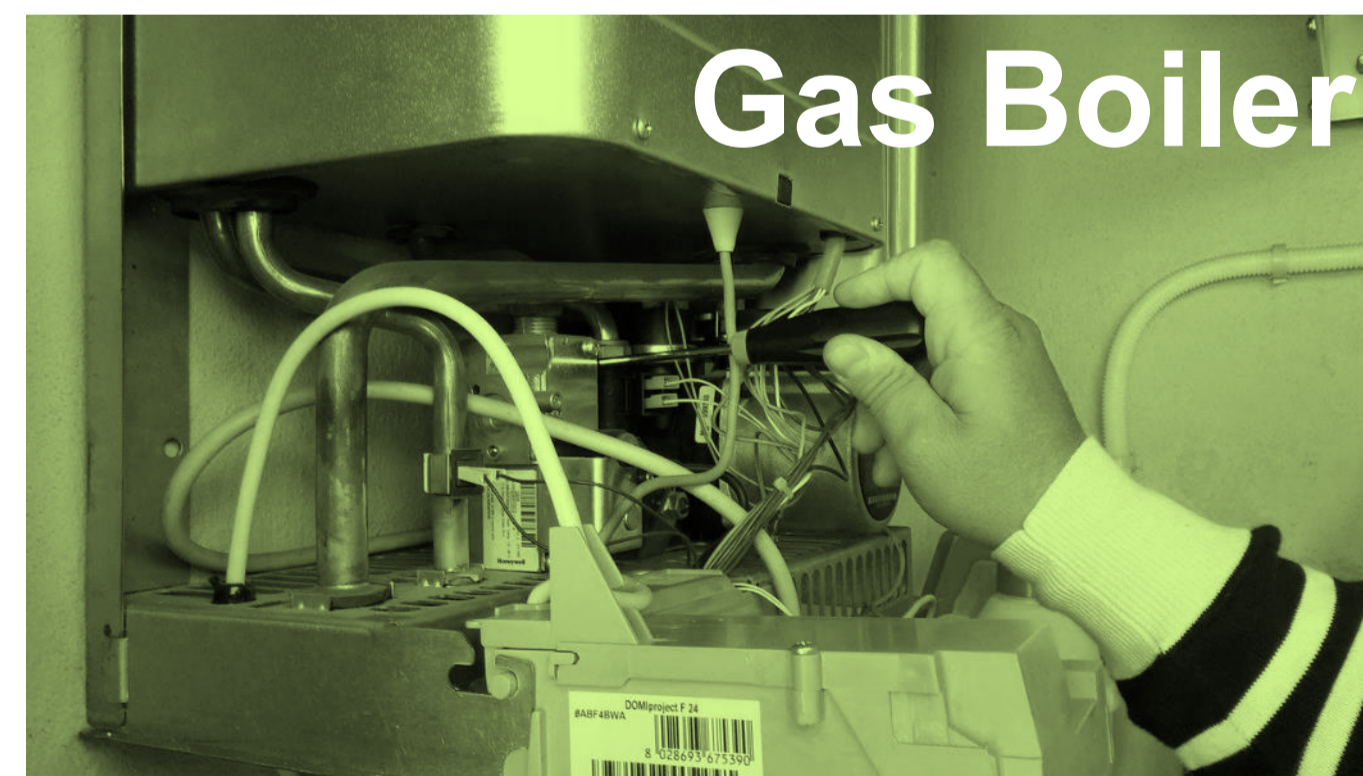
Heat is produced by renewable technology at a local energy centre. Heat is then delivered through underground pipes to individual buildings and homes.



### Replacing gas boilers

The UK Government has a plan to phase out individual and communal gas boilers by 2035.

A heat network can replace gas boilers and will work with 'wet radiators', like those in homes across the Estate today.



**Lancaster West Estate relies on gas heating today**

# If you have a combi boiler, how will your heating change?

Today

---

Future Renewable Heat Network

Radiators supply space heating

---

New radiators will be installed

Hot water delivered direct to taps

---

No change

Individual heat controls on radiator and controls panel for your whole home

---

New smarter controls

You pay a gas provider for gas used

You will pay the Council for your heat used

# On the communal networks? How will your heating change...

Today

Future Renewable Heat Network

---

Radiators supply space heating

New radiators will be installed

---

Hot water delivered direct to taps

Hot water pressure will improve

---

Some heat controls available, but no heat delivered in 'summer'

Smart heat controls will be available in every room, all year round

---

Pay a fixed amount to the Council for heating (based on number of bedrooms)

Pay for heat used in your home to the Council

# How does it work?

## Local Energy Centre

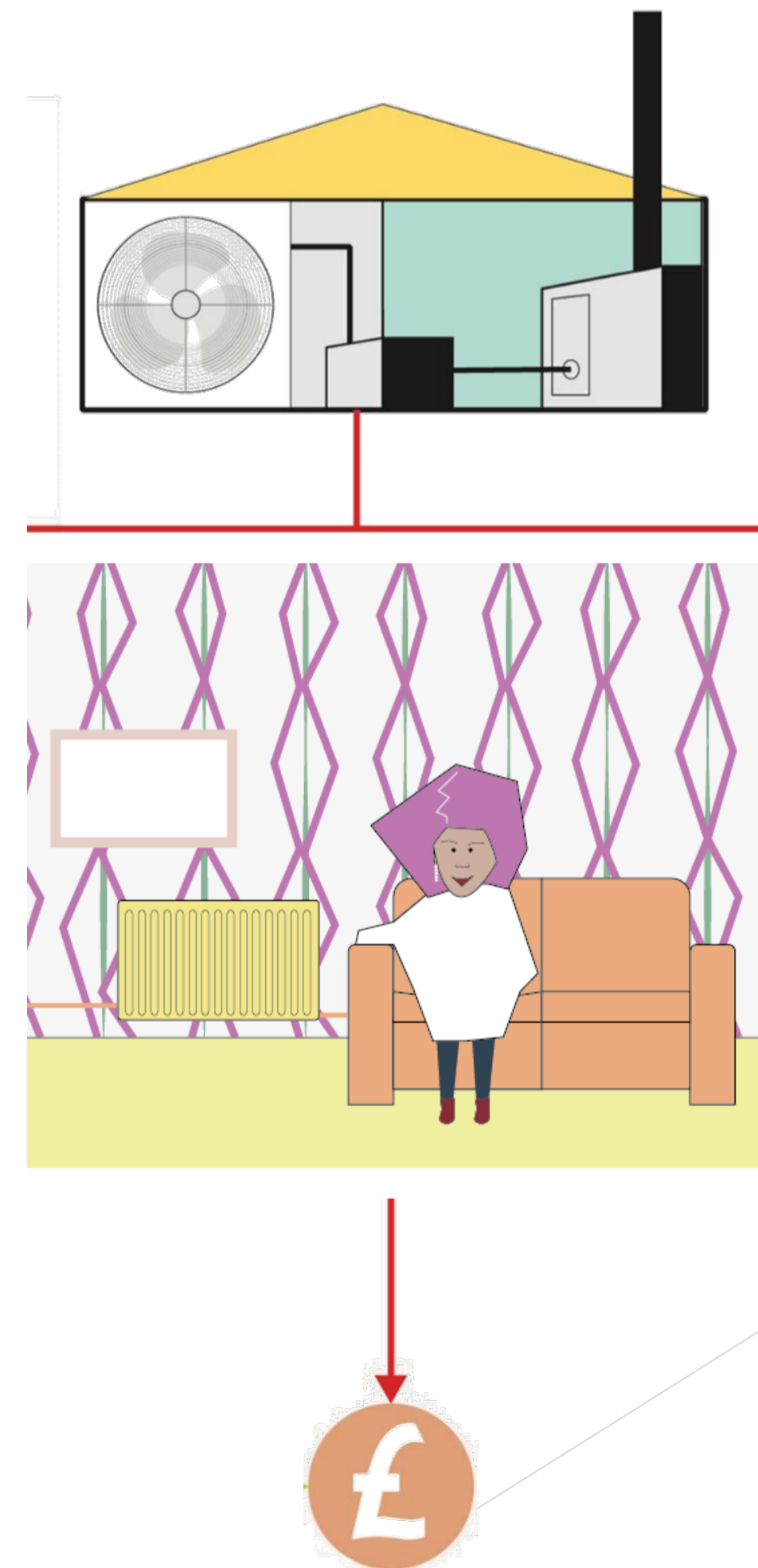
Based at LWE, the energy centre will supply renewable heat using a large air source heat pump. The pump requires electricity to produce heat. 5-10% of the electricity could be supplied by rooftop solar panels from across the Estate.

## Heat Delivery

Hot water is delivered through underground pipes, to each block, and each home. A heat interface unit transfers heat to your radiators and can supply instant hot water to taps.

## Billing

You will pay for the heat and hot water you use. The amount of heat used will be individually measured in each home.



# What will be installed in your home?

New plumbing + heat controls



## Heat Interface Unit

Will replace your existing boiler completely.



## New Radiators + Pipes

Existing radiators will be replaced with a similar type.



## Thermostats

Controls for heating



## Heat Meter

Measures heat use

# What can the renewable heat network deliver?



## Future-Proof

Move away from gas ahead of legislation changes. UK Gov has given £1.1m grant to support the project.



## Hassle-Free

Servicing and replacement of equipment included for all tenures. No annual gas checks or boiler maintenance.



## Local Energy

Enjoy locally produced heat. Avoid the big energy companies.



## Health & Safety

Improve health, safety and air quality in homes.