

# How does it work?

## Local Energy Centre

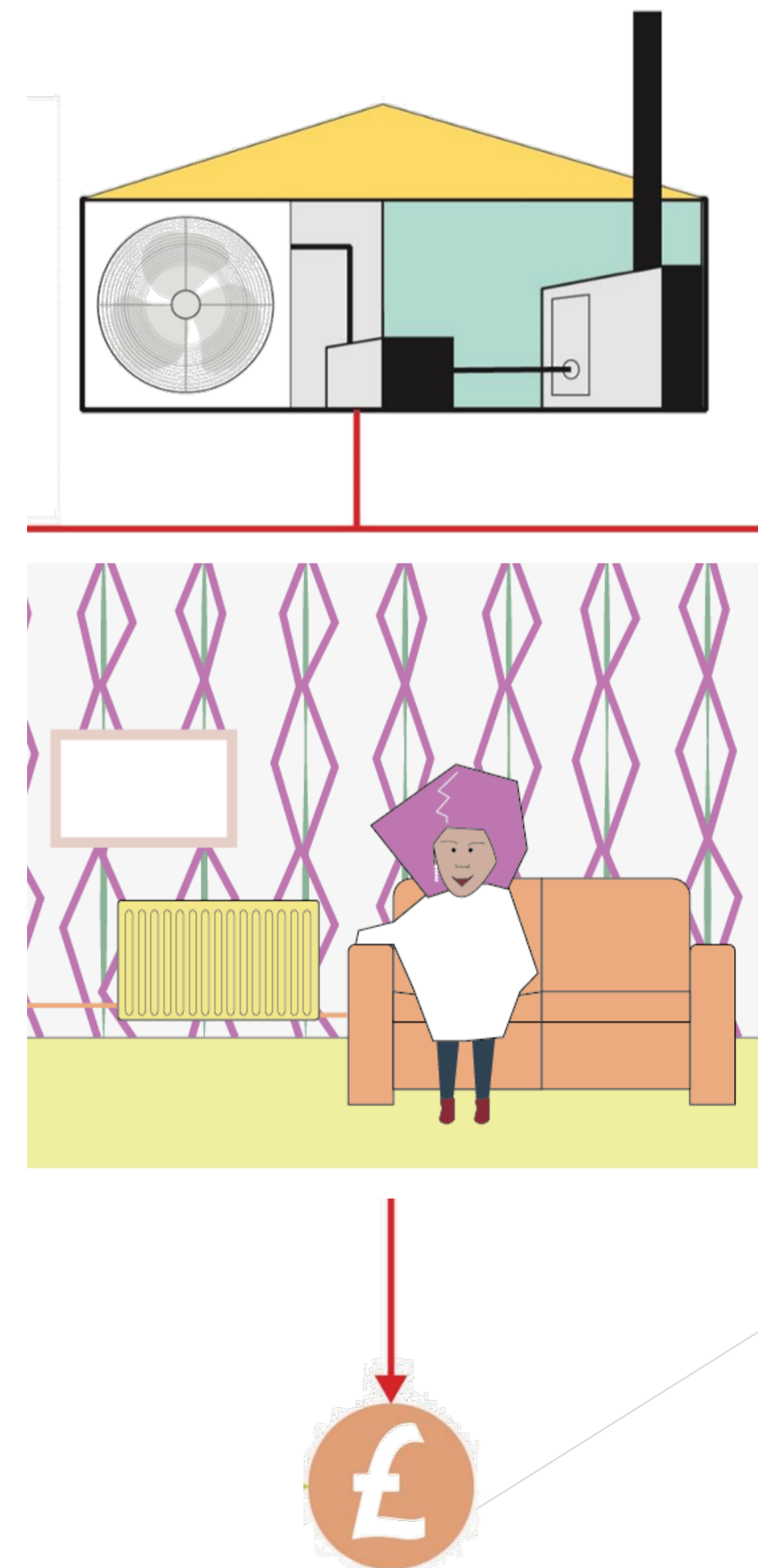
Based at LWE, the energy centre will supply renewable heat using a large air source heat pump. The pump requires electricity to produce heat. 5-10% of the electricity could be supplied by rooftop solar panels from across the Estate.

## 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.

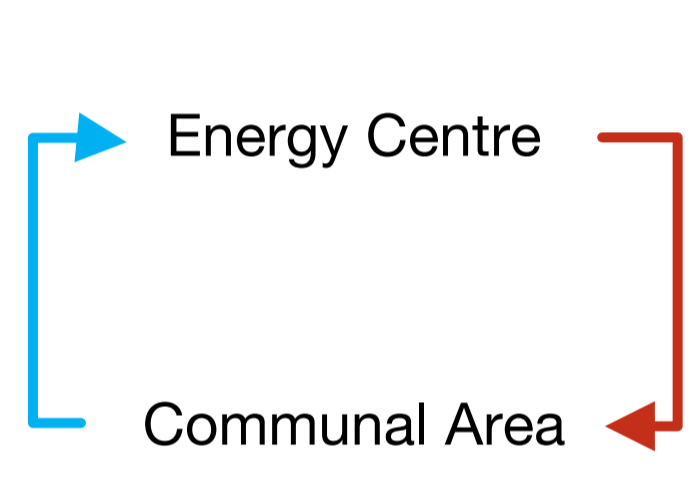
## Billing

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



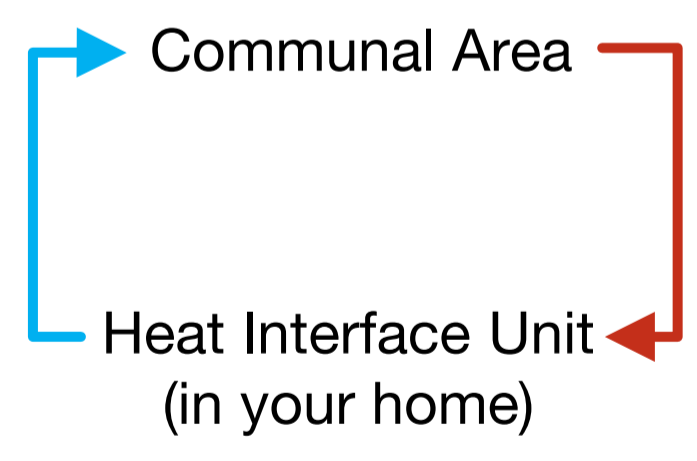
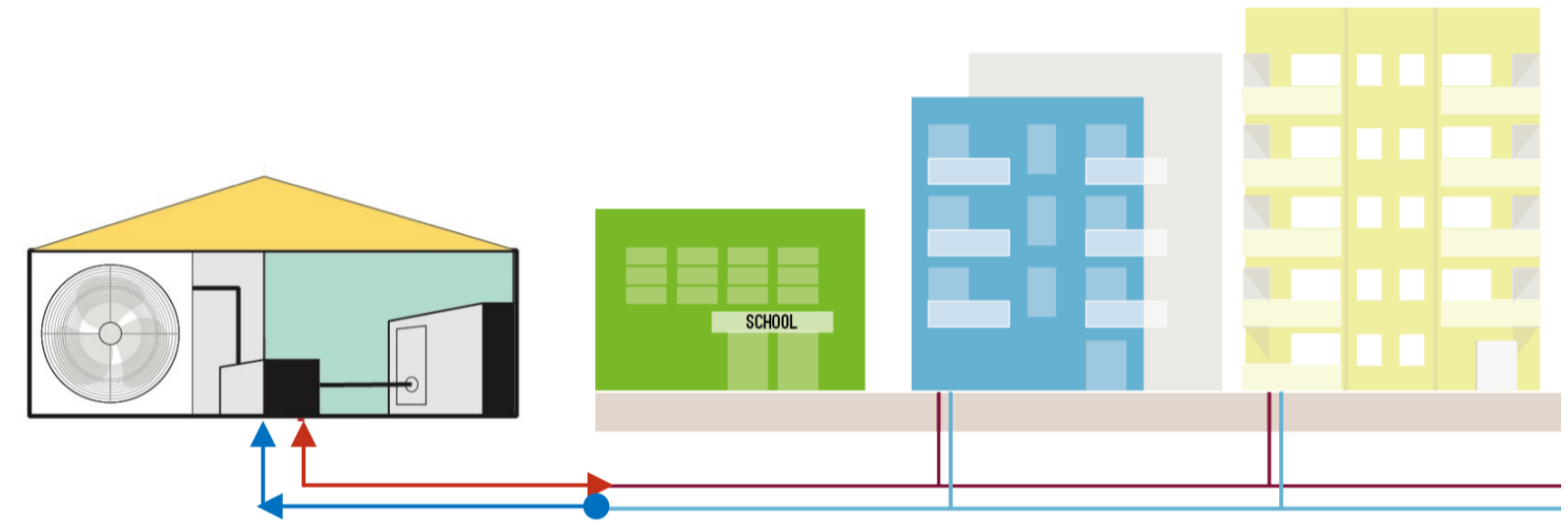
# Technical Information

**A heat network consists of three ‘closed loops’. Each loop contains water that carries heat, the heat is transferred between each loop but the water in each never mixes.**



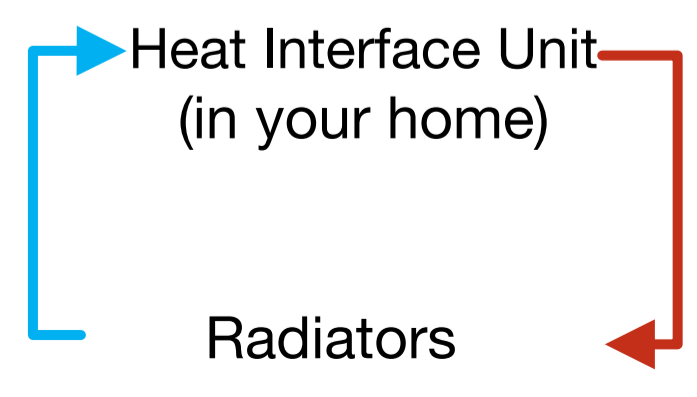
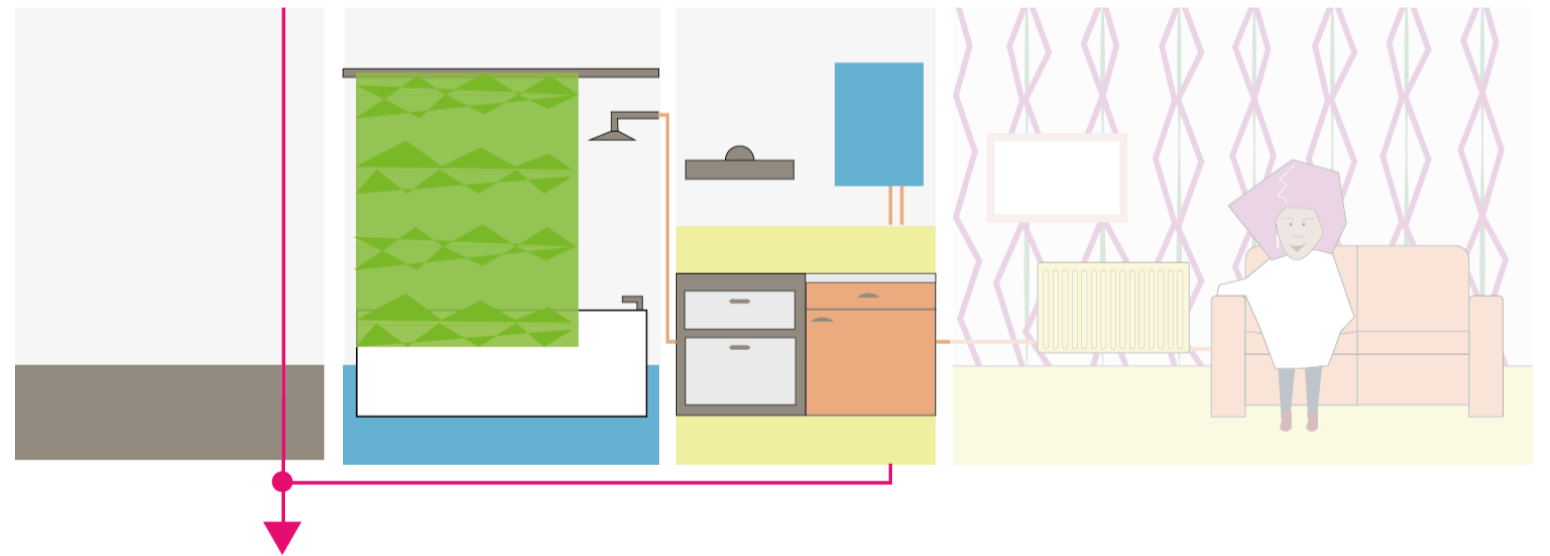
## Loop 1

Hot water is pumped from the energy centre to each building. It then returns to the energy centre and is reheated.



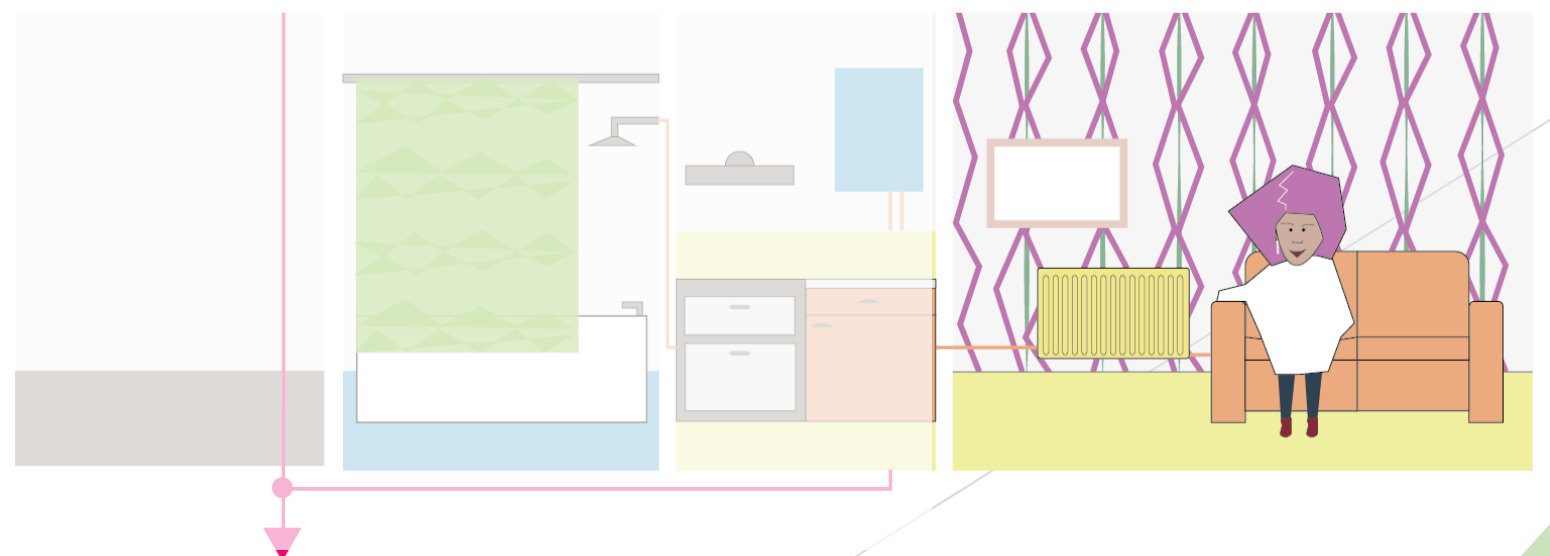
## Loop 2

Heat is carried through the communal / external area of your building, to a heat interface unit in your home.



## Loop 3

The heat interface unit transfers heat to water in your radiators. This water circulates through the heat interface unit when it is on.



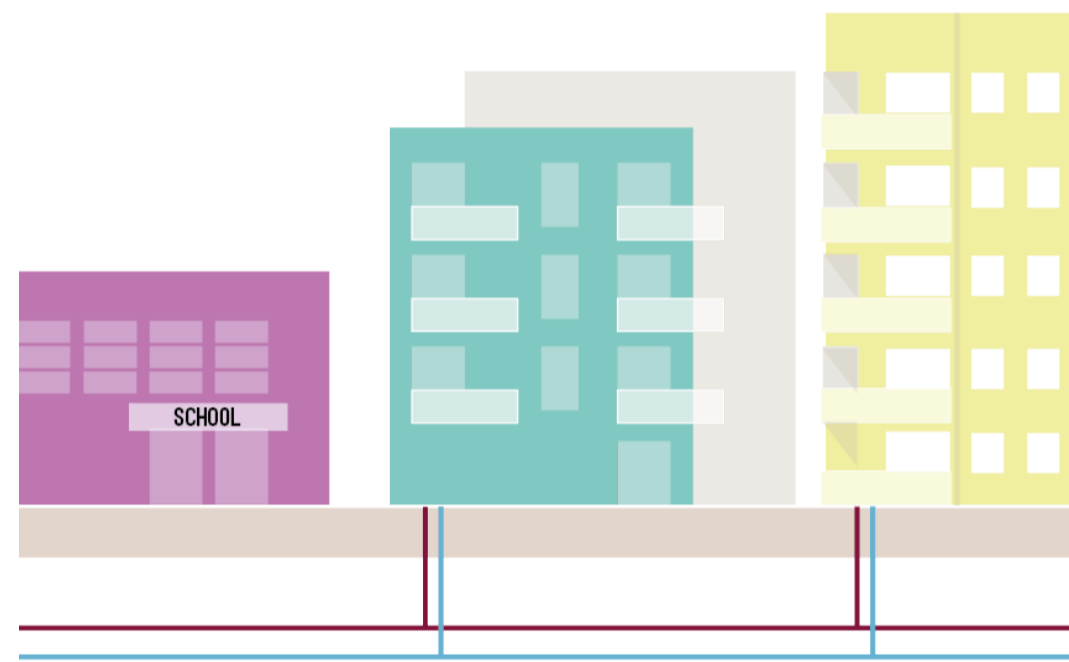
# How will the heat network be installed?

The heat network will be installed in roads, blocks, and individual homes on the estate.



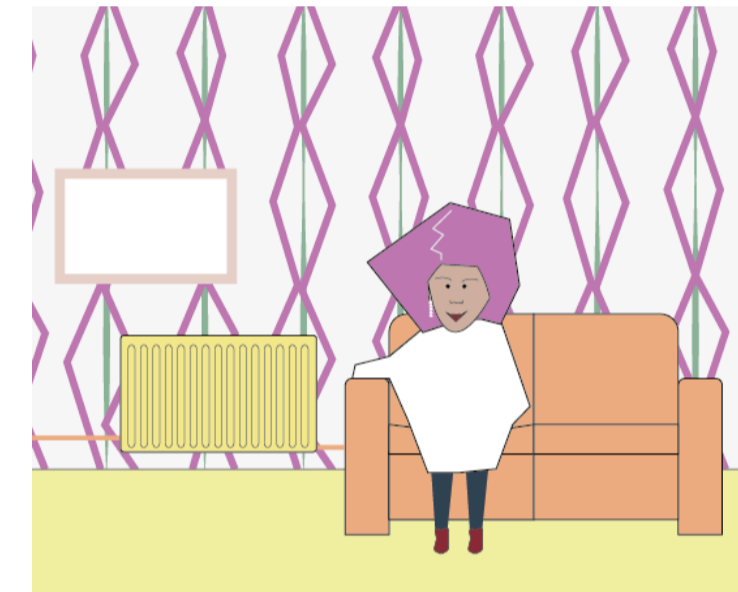
## Roads

- ▶ Underground pipes will be installed underneath roads.
- ▶ This may cause some disruption to cars.
- ▶ The old heating system should be unaffected



## Blocks

- ▶ Pipes will be installed in communal, or external areas of your block.
- ▶ These works will take place alongside the main refurbishment works in your block.
- ▶ The old heating system should be unaffected.



## Your Home

- ▶ The heating system in your home will be replaced as part of the refurbishment works. This will include radiator replacement.
- ▶ There may be a short period when you have no heating or hot water.