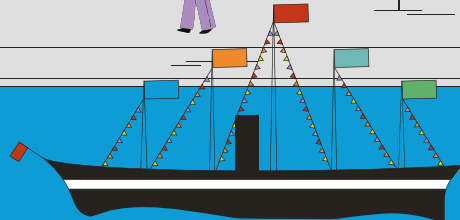
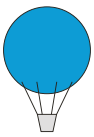
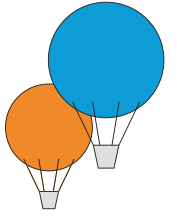
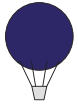


BRISTOL city leap

Welcome Pack





Investing
£424 million
in low carbon projects



Creating
1,000+
jobs



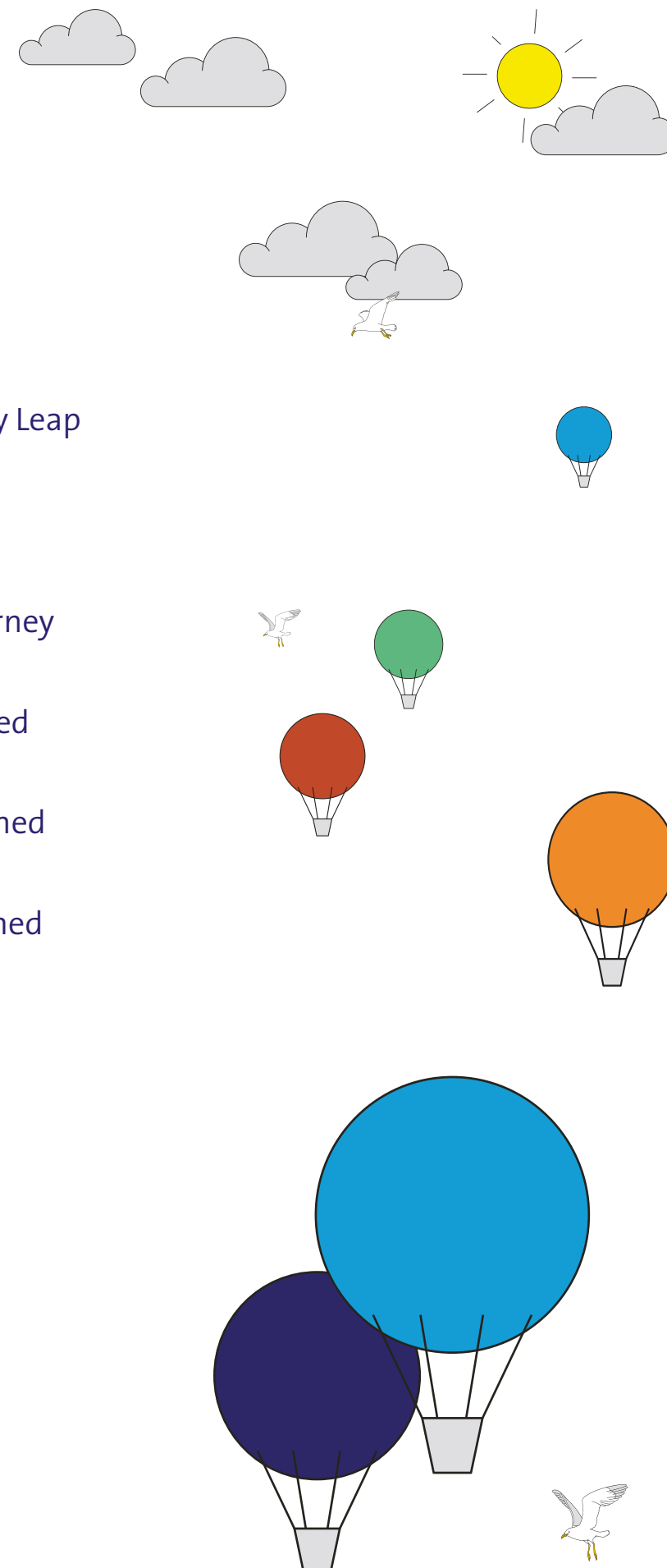
Delivering
£61.5 million
of social value over the next five years

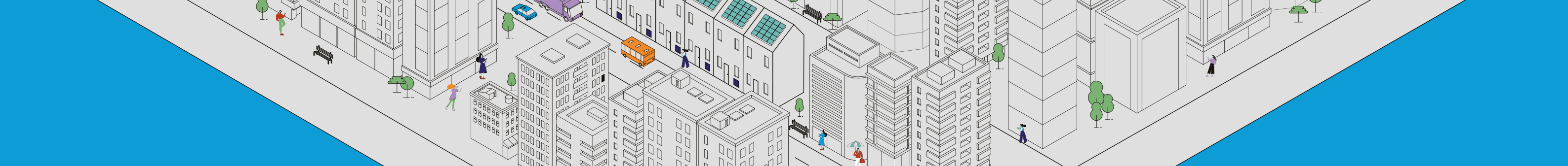


Committing
£1.5 million
for Community Energy Development

Contents

4. Who are Bristol City Leap
5. How Can We Help
6. Your Customer Journey
7. Ventilation Explained
8. Heat Pumps Explained
10. Solar Panels Explained





Who are Bristol City Leap

Bristol City Leap is an innovative partnership between Bristol City Council and Ameresco UK.

We are accelerating green energy investment across Bristol in a bid to decarbonise the entire city.

Over the next five years, **we will invest nearly £500 million in low carbon energy** infrastructure, such as solar, wind, heat networks, heat pumps and energy efficiency measures. Collectively, this will play an important role in helping Bristol meet its target of becoming carbon neutral by 2030.

Bristol City Leap is not only a critical step in Bristol's commitment to climate action though. We are also delivering a better quality of life for Bristolians throughout the city through initiatives that are:

Our **Bright Green Homes** project has been

- Increasing the warmth and comfort of homes
- Improving air quality
- Creating over 1,000 local jobs

Delivering social value to our communities running for over three years in Bristol, Bath and North Somerset Local Authorities. The aim of this project is to help owner occupiers and landlords make improvements to their properties that will not only save them money but improve the internal comfort of their home and help the Southwest achieve their net zero targets. The project is funded through government grants and managed by Bristol City Leap.

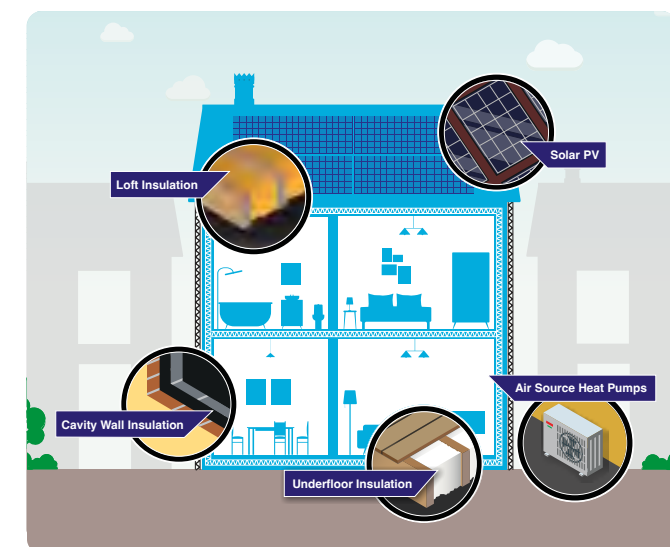


How We Can Help

We have four-years of experience managing the assessment and installation renewable energy sources and energy efficiency measures.

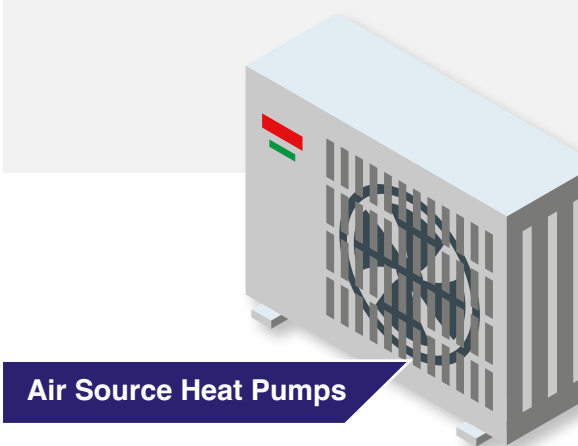
We use expert contractors to install measures including:

- Cavity Wall Insulation
- External Wall Insulation
- Loft Insulation
- Windows and Doors
- Air Source Heat Pumps (AHSP)
- Solar Photovoltaics (PV)



“From the day I applied to Bright Green Homes the service was excellent. It’s the best thing we’ve ever done.”

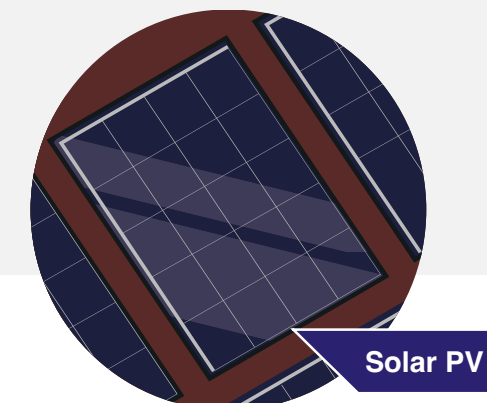
We helped Clive install solar panels and a heat pump to save on his energy bills and help the planet.



Air Source Heat Pumps

“I would encourage anyone who needs solar energy and meets the eligibility criteria to go ahead. Interacting with the City Leap team was great. They were really nice and always informative.”

After completing a home survey, we supported Claire to install solar panels to make her house more energy efficient.



Solar PV

Your Customer Journey



The journey from eligibility to installation can be a complicated process with several steps. In preparation please read this outline guide to the process:



1 Eligibility

The first step is to check if you meet the criteria. Funding is means-tested and depends on fuel type and EPC rating. You'll need to provide evidence for your application. You may qualify based on your postcode, regardless of income.

2 Retrofit Assessment

A full survey of your home (1-2 hours) identifies building fabric, occupancy, and necessary repairs. This assessment helps determine which energy-saving measures can be installed.

3 Technical Surveys

Installers conduct surveys to ensure the recommended measures are feasible. Once we receive the results, we can begin planning the installation

4 Retrofit Coordination

Information from the assessment and surveys is passed to a designer to create your installation plan, including repairs and ventilation. After approval, we proceed to the next stage.

5 Funding Application

Funding for retrofit works is applied for in batches. Once received, we'll send you an Offer Letter detailing the installation. After signing, we can schedule the installation.

6 Installation

Installers will contact you to arrange a start date. Timelines depend on material availability, but we'll provide a realistic timeframe for planning.

7 Handover

After installation, our team will explain the work and provide maintenance info. You can raise any issues and will receive all handover documents, including warranties and certifications.

8 Monitoring

After completion, we'll send a questionnaire to check your satisfaction and gather feedback. This will be used as evidence when submitting the completed works to the funder.

If you have any questions please call us on **0117 471 1033** or visit bristolcityleap.co.uk/domestic/bright-green-homes

Ventilation Explained

Ventilation is essential for a healthy home as it provides fresh air and removes pollutants such as cooking fumes and chemicals emitted by household items.

Ventilation also removes water vapour from activities like breathing, washing, and cooking, to prevent build up of condensation and mould which can harm our health and the structure of the building.

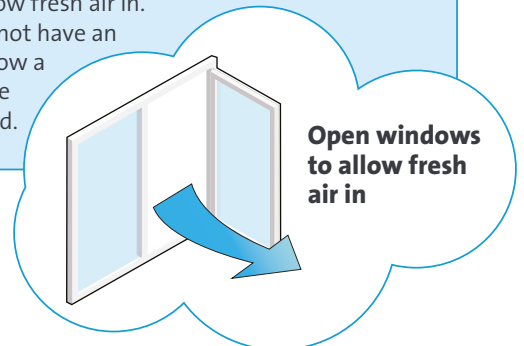
Under the Bright Green Homes scheme, we will ensure there is sufficient ventilation in all rooms, especially rooms with increased levels

of water vapour or 'wet rooms' such as bathrooms and kitchens.

To do this, we create a ventilation strategy incorporating a combination of the following measures for your home.

Purge Ventilation

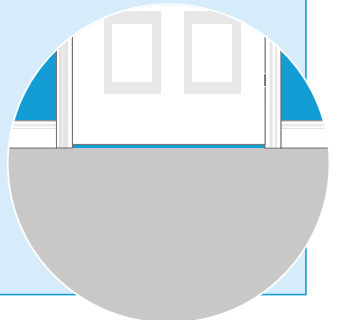
All rooms require purge ventilation by openable windows to allow fresh air in. If a room does not have an openable window a wall vent will be installed instead.



Open windows to allow fresh air in

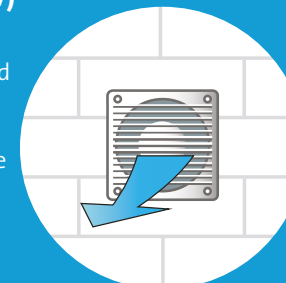
Door undercuts

Door undercuts where a small section of the bottom of the door is removed may be necessary on internal doors to enable airflow and avoid the accumulation of stale air in a room.



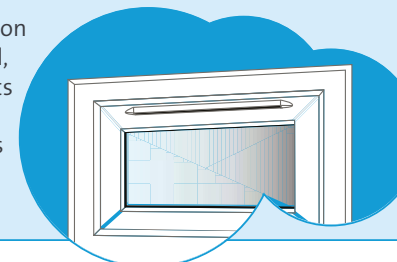
Decentralised Mechanical Extract Ventilation (dMEV)

All wet rooms will be fitted with a dMEV that is designed to run continuously. The dMEV draws moisture laden air out of the room to ensure mould doesn't develop. DMEVs are quiet and very cheap to run.



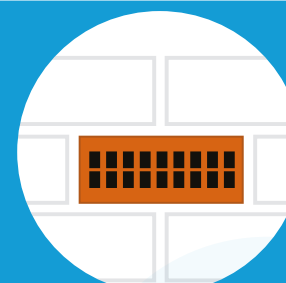
Background Ventilation

Non-mechanical background ventilation may also be installed, including trickle vents in window frames or background vents in walls.



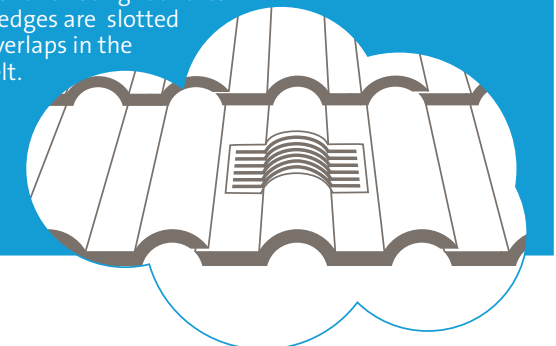
Air Bricks

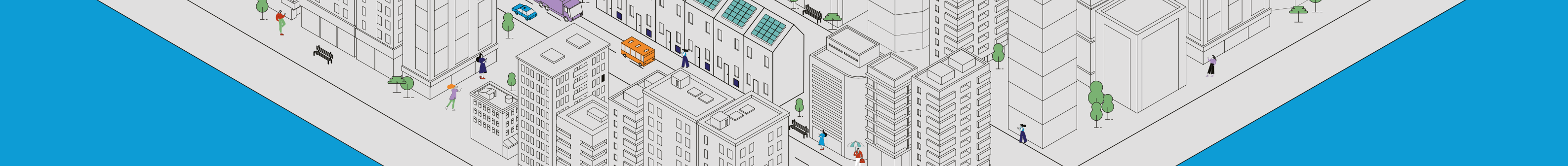
Air bricks may be installed in walls to allow a constant stream of fresh air. They are generally installed at underfloor level to ensure sufficient crossflow and avoid moisture issues in wooden floors.



Tile Vents

To increase ventilation in loft spaces either tile vents or wedges will be installed. Tile vents replace a small number of existing roof tiles and wedges are slotted into overlaps in the roof felt.





Heat Pumps Explained

What is an Air Source Heat Pump (ASHP)?

ASHPs are an efficient and low carbon heating solution for well insulated homes.

How do ASHPs work?

ASHPs work by transferring warmth from the air to a liquid refrigerant. An electric pump then compresses the liquid into gas which increases the temperature. As the refrigerant condenses back into liquid heat is released to heat the water circulating in a central heating system.

How efficient are ASHPs?

ASHPs are extremely efficient. 1 kilowatt hour (kWh) of electricity input typically results in 3 kWh of heat output. They even work when the outside air temperature is below freezing.

Is an ASHP suitable for your home?

For an ASHP to work optimally, it is important that your home is well insulated so heat loss is minimised and a comfortable internal temperature is maintained.

You will also need space for the external fan unit which draws in air. This can be mounted on or placed against an outside wall. If you live in a conservation area or a listed building you may need planning permission.

Due to the lower operating temperature, radiators are likely to be slightly larger than conventional radiators. And a hot water cylinder will be required.

Running and maintenance cost

Running costs depend on the size and insulation level of your home as well as the room temperature you maintain. ASHP installers can provide estimated annual running costs.

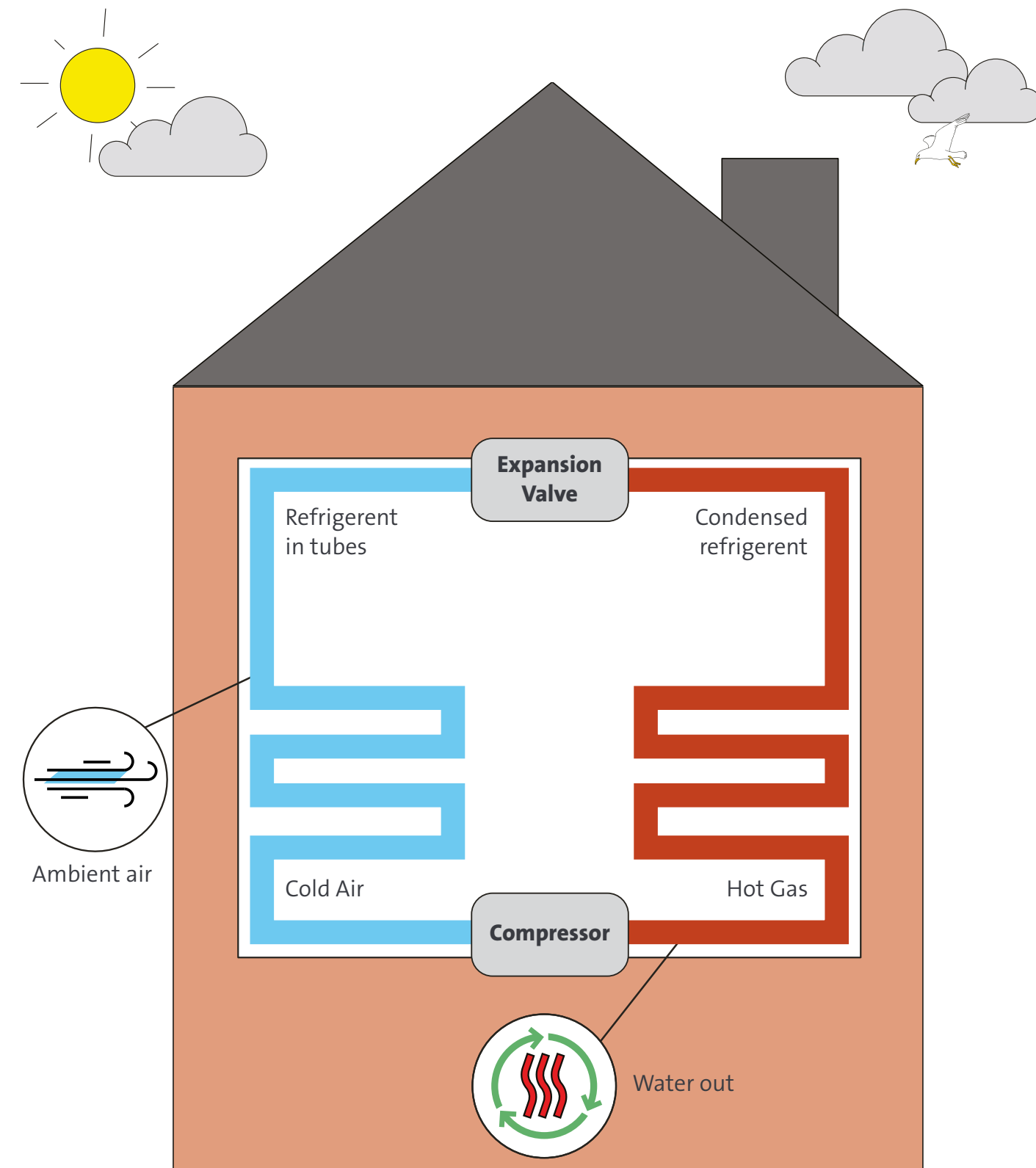
Maintenance costs for ASHPs are low. They are reliable and typically operate for over 20 years.

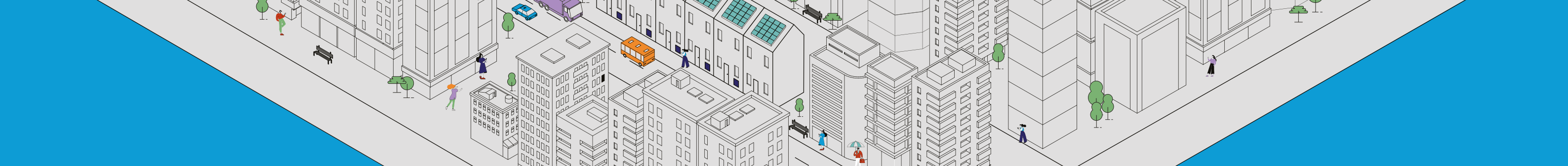
Installation cost

The typical cost of private installation is between £8,000 and £14,000, plus the cost of new radiators and pipework.

The Boiler Upgrade Scheme offers a grant to cover part of the cost of replacing an oil, gas, electric or LPG heating system with a heat pump. The Scheme currently offers homeowners £7,500 for the cost of an ASHP <https://www.gov.uk/apply-boiler-upgrade-scheme>

Alternatively, our Bright Green Homes scheme offers fully funded energy efficiency and heating measures if you meet the eligibility criteria.





Solar Panels Explained

What are Solar Panels?

Solar Photovoltaic (PV) panels capture sunlight and turn it into electricity for your home to help lower energy bills and reduce your carbon footprint.

Do solar PVs give you free electricity?

While solar panels can reduce your electricity bill, they do not eliminate it. You'll still pay for grid electricity used when the sun isn't shining, as well as daily supply charges and other fees.

You can get a rough idea of how much energy you can make from solar panels using the solar map on the Bristol City Council website.

The average household won't use all the energy their solar system produces and the excess can be exported back to the grid. The Smart Export Guarantee (SEG) can give you credits for this excess electricity, from participating energy suppliers.

How efficient are Solar PVs?

A typical 350W solar panel typically produces around 250 kilowatt hours (kWh) of electricity per year for every square meter. The average three-bedroom house uses 2,700kWh of electricity per year, and would need 10 350W solar panels to produce a similar amount.

Are Solar PVs suitable for your home?

For solar panels to work effectively, your roof should ideally face south, east, or west and be free from shading by trees or buildings. You'll also need enough roof space to install the panels.

You don't usually need planning permission to install solar panels on your home. There are some restrictions though, so check if you need planning permission for solar panels.

Building regulations usually apply if you want to install panels on your roof. An installer who is certified by the Microgeneration Certification Scheme (MCS) will be able to advise further.

Running and maintenance cost

Solar panels have very low running costs.

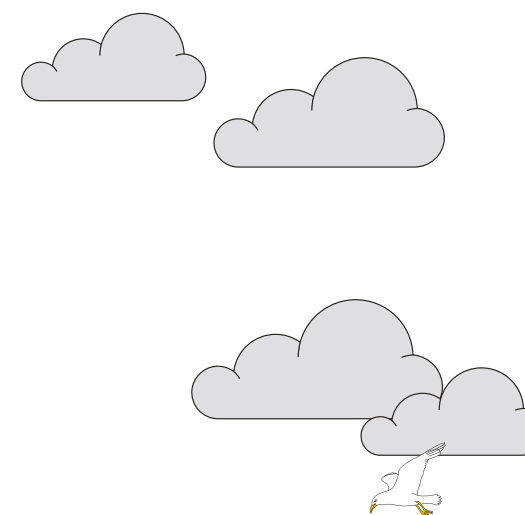
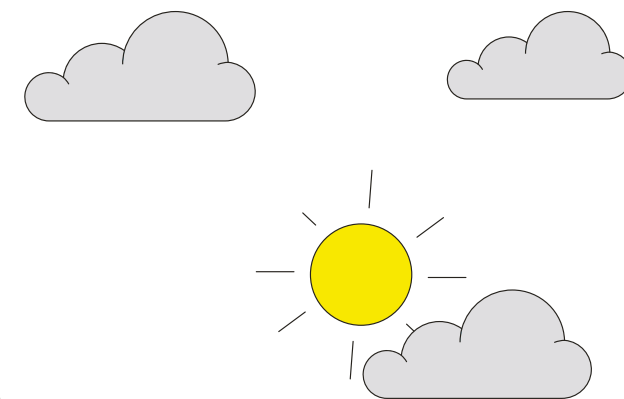
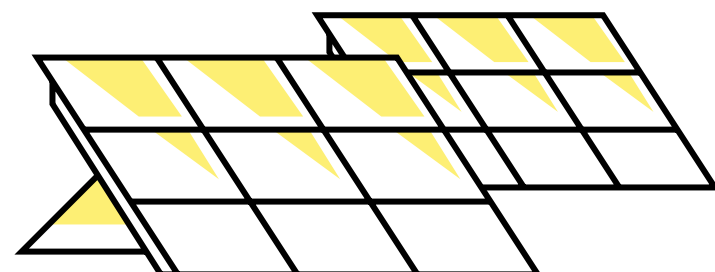
A properly installed, well-designed solar PV system requires little maintenance, however you'll likely need to replace the inverter within about 10 years (costing around £800).

If the panels are damaged by something unexpected, such as a storm, you may be covered the installer warranty or buildings insurance but you will need to check with your insurer.

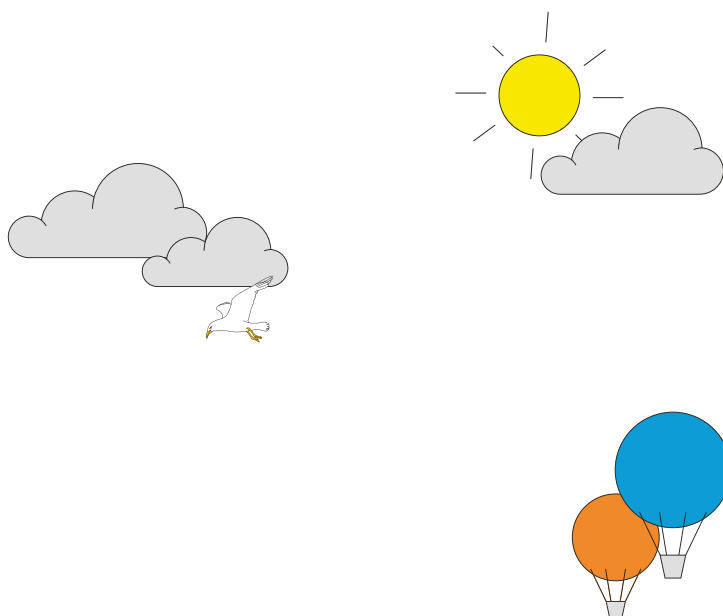
Installation cost

The price of a typical 3.5 kilowatt-peak PV solar panel system is about £7000 with installation.

Our Bright Green Homes project funds and supports eligible households to install Solar PV systems.



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 Bristol City Leap

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Bristol
BS1 6PU

T: 0117 352 1180

Get in touch:

Are you interested in having your home retrofitted?

We are currently delivering the Bright Green Homes scheme which provides free energy-saving measures to those living in within the boundaries of Bristol City Council, North Somerset Council and Bath and Northeast Somerset Council.

To find out if you meet the eligibility criteria, visit the **Bristol City Leap website**.