

LG Air Solution White Paper

The LG Guide to

Grants for Air to Water Heat Pumps

- For Trade





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Introduction

Making the change to low carbon heating

Heating and hot water for UK buildings makes up 40% of the country's energy consumption and 20% of its greenhouse gas emissions - of which 68% is generated by residential dwellings.

For decades, we have relied on gas for much of our space heating and hot water requirements. The UK Government has brought in schemes and legislation to make the change to the use of renewable technologies. By increasing the use of heat generated by renewables over fossil-fuels, the UK will reduce greenhouse gas emissions and have a far better chance of meeting Government targets for reducing the effects of climate change.

Fortunately, the UK has been successfully switching to renewable energy sources to produce electricity - creating a 'green grid'. This, combined with the latest heating and hot water technologies, make that carbon reduction goal far more achievable.

Heating emissions % of total	Source of emissions	
54%	Residential space heating	
14%	Residential hot water	
Figures from CCC report: Next steps for UK heat. Figures rounded up so may not total 100%		



The Committee for Climate Change document

'Net-Zero: The UK's contribution to stopping Global Warming 2019' suggests actions for individuals and householders to take now to reduce their carbon footprint and contribute to the UK net-zero goals. These include: Eat less red meat; curb flights and install low carbon heating systems into our homes - and this is rehighlighted within the recent Sixth Carbon Budget report, with an emphasis on 'offgrid' homes to have heat pumps installed as a matter of urgency.

Future Homes Standard

All new build homes from 2025 will no longer be heated by fossil-fuel boilers.

Air to water heat pumps are not only a low carbon alternative, they cost less to run than conventional boilers and they have no need for flues or fuel tanks. LG are providing low carbon heating to our homes now, so there is no need to wait until 2025, the futures here.

LG Therma V R32 Monobloc

Therma V R32 Monobloc: a simple, fast and efficient system for heating and domestic hot water, operating at an outdoor temperature as low as -25° C, with remote control, preinstallation adjustment, simplified maintenance and energy efficiency.



The domestic Boiler Upgrade Scheme (BUS)

Can only be applied in England & Wales.

The BUS scheme currently pays participants that generate and use renewable energy to heat their homes. There are limits on the amount of space heating a house can receive payments for. The heat demand limits are set at 45kWth for ASHPs.

The Boiler Upgrade Scheme Property Owner Consent Application can be downloaded from Ofgems website.

https://www.ofgem.gov.uk/publications/accessibility-statement-boiler-upgrade-scheme-property-ownerconsent-application

Who can apply for the BUS?

Homeowners, private and social landlords and self-builders can all apply for BUS payments. LG recommends you contact an MCS Registered Installer to guide you through the BUS application process. From the point of application, you must have the installation commissioned within 3 months.

About payments

Payments for the air-to-water heat pump are based on the estimation of the renewable heat generation – the seasonal performance factor - and are paid quarterly.

Check the list for BUS applications:

- You're eligible for a grant if all the following are true. You must:
- own the property you're applying for (including if it's a business, a second home, or a property you rent out to tenants)
- have installed (or plan to install) your new heating system on or after 1 April 2022
- be replacing fossil fuel heating systems (such as oil, gas or electric)
- You're still eligible if you've already had funding to make your property more energy efficient, for example by insulating it.
- Your property must have a valid Energy Performance Certificate (EPC) with no outstanding recommendations for loft or cavity wall insulation.
- Find out what to do if your property has recommendations for loft or cavity wall insulation.
- If you're not sure whether your property is suitable for a low carbon heating system, speak to an MCS certified installer. They can tell you about your options.

Check if a heat pump could be suitable for your home - GOV.UK (www.gov.uk)



Renewable heat is defined - as the heat generated minus the electrical input.

Example, if the output is 10kW and the electrical input is 3kW, then the renewable heat output is 7kW. 10-3 = 7kW or 7kWh

*Source: Gov.Org's website, link: Apply for the Boiler Upgrade Scheme: Overview - GOV.UK (www.gov.uk)

What is...

Microgeneration Certification Scheme

The official standard for air to water heat pump products. MCS- 007, under BS EN 14511:2007 (4 parts). Air Conditioners, liquid chiller packages, and, heat pumps with electrically driven compressors for space heating and cooling. The LG Therma V product range all meet the MCS certified product scheme and can be found on the MCS website - head forhttps://mcscertified.com.

To qualify for the BUS, the installation also needs to be completed by an MCS certified engineer, either an individual installer or an installation company. Please note, all MCS registered companies can be looked-up on the MCS website MCS Registered installer will complete the application on your behalf on the Ofgem website.

Further information here:

https://www.ofgem.gov.uk/environmental-and-social-schemes/boiler-upgrade-scheme-bus

Energy Performance Certificate

Before applying for the BUS, the property must have an Energy Performance Certificate (EPC) with no outstanding recommendations for loft or cavity wall insulation. The EPC has information about the property and with recommendations that will need to be done before applying for the BUS, such as loft insulation or glazing. If this is the case, the homeowner will need to renew the EPC to reflect the fact that the recommendations have been completed.

Assignment of Rights

The Department for Business, Energy & Industrial Strategy (BEIS) introduced the option of assignment of rights on the 28\" June 2018 and this offers an option to help householders and landlords access finance by allowing an \"investor\" to cover the upfront costs of the air source heat pump, installation and maintenance, for a householder or landlord's renewable heating system.



LG Electronics

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For continual product development, LG reserves the right to change specifications without notice.

Information on the complete range of LG Air Conditioning and Energy Solutions is available on our website. You can also download from PDF versions from our website. Whilst every care has been taken in the preparation of this catalogue, some changes may have occurred since publication. LG Electronics cannot accept responsibility for errors and omissions. We advise that you check the latest Product Data Book.

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