



**J. SHIPLEY**  
HEATING & ENGINEERS  
Proudly serving the north east since 1946

# Renewable Energy Solutions

Explore our practical guide to discovering renewable energy solutions for your home or business.





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# About Us

**J. Shipley Heating Engineers**, based in South Shields, Tyne and Wear, is a friendly, family-run business with over seventy years of experience. We specialise in renewable energy solutions and focus on modern technologies such as **heat pumps, solar PV, and air conditioning**. Their long-standing commitment to quality service has made them a trusted name in sustainable energy systems across the north-east.

As a Which? Trusted Trader, we have built a reputation for reliability and quality, backed by a comprehensive range of positive reviews on Google. Additionally, we are also Worcester Bosch Accredited installers and can offer our customers a range of exclusive benefits.





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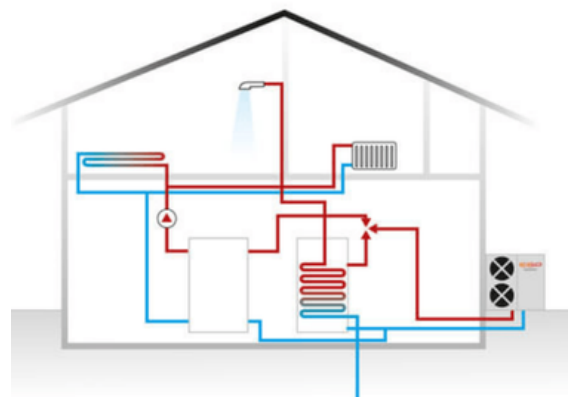


# The future is green

## How do heat pumps work?

**Air Source Heat Pumps (ASHPs)** capture heat from the external air using an evaporator coil filled with refrigerant. As the refrigerant absorbs this heat, it turns into a gas. This gas is then compressed to raise its temperature before passing through a heat exchanger, where the captured heat is transferred to the home's heating system.

The refrigerant, having released its heat, condenses back to a liquid, goes through an expansion valve, and starts the cycle again. Some ASHPs can also cool homes by working in reverse, extracting heat from inside and releasing it outside. ASHPs function like reversed refrigerators, efficiently heating or cooling spaces even in diverse climates.





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# The benefits of air source heat pumps



It could lower your fuel bills at home



It could lower home carbon emissions



Subject to status, there is a £7,500 grant available



It can heat your home as well as your water



ASHPs can also operate in reverse during warmer months, acting as an air conditioner to cool your home.

At its core, an Air Source Heat Pump is a marvel of modern technology that enables us to harness the natural energy in our surroundings.

ASHPs absorb heat from the outside air, even in colder temperatures, and use it to warm your home and water.





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# What is BUS?

If you are thinking of air source heat pumps, you may be eligible for a £7,500 grant.

The Boiler Upgrade Scheme (BUS) supports the decarbonisation of heat in buildings. It provides upfront capital grants to support the installation of heat pumps in homes and non-domestic buildings in England.

The Boiler Upgrade Scheme (BUS) is designed to support homeowners transitioning to greener heating solutions by offering financial incentives for installing air source heat pumps (ASHPs).

Under this scheme, eligible homeowners can receive **up to £7,500** towards installing an ASHP, significantly lowering the initial cost barrier.

The BUS scheme makes adopting this renewable technology more accessible and affordable, empowering consumers to make a sustainable choice for their heating needs.

Here at J. Shipley Heating Engineers, we aim to help our customers with the complete process, so if you have questions regarding the scheme, don't hesitate to get in touch.

Who can apply to the scheme?

To apply, you'll need to:

- Own your property (this can be a home or a small business property).
- Have a property with an installation capacity up to 45kWth (this covers most homes).
- Have a valid energy performance certificate (EPC) Your EPC must **not** have any outstanding recommendations for loft or cavity wall insulation (unless you have any insulation exemption).



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# Air Conditioning

J. Shipley Heating Engineers provides expert air conditioning services for residential and commercial customers, offering tailored solutions to ensure efficient cooling and climate control all year round.

## **The Dual Function of Cooling & Heating Your Space**

Air conditioning systems regulate indoor temperatures by cooling and heating, offering year-round comfort. In cooling mode, they extract warm air, cool it, and circulate it indoors.

They reverse the heating process, drawing heat from outside air and releasing it inside. This dual functionality makes air conditioning an energy-efficient solution for maintaining a comfortable climate in any season.



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# The Benefits



There are several benefits to having a new air conditioning system installed; whether your air conditioning unit is placed in a commercial or domestic setting, here are just some reasons why you should have a unit installed:



## Numerous health benefits and cleaner air

Air conditioning ventilates and circulates throughout your home, drawing fresh air from the outdoors and filtering the air indoors.



## Warm up or cool down

Air conditioning and heating can maintain a pleasant environment, whether summer or winter, without you having to do anything.



## Ease of use

The controls for your unit are designed to be simply to operate and making adjustments to temperature is just one click away.



## Control your allergies

With built-in air filters, our air conditioning units remove almost all the dust, smoke, pollen and other allergens so that you can breathe easier.



"Energy efficiency rating of A++ for cooling and A+ for heating."



A++

A+++ → D



A+

A+++ → D







# Air Conditioning Services

01

**Installation** – Cool off in the summer, or warm up when it's chilly, with air conditioning that keeps you comfortable, whatever the weather outside. With a Worcester Bosch home air conditioning unit, you'll breathe easier too – with cleaner, filtered, circulated air, whenever you need it.

02

**Maintenance** – Regular maintenance of air conditioning units is crucial for their efficiency and longevity. Over time, dust and debris can hinder performance and affect air quality. Routine checks involve cleaning filters, inspecting coils, and ensuring drain channels are clear.

03

**Breakdown** – Breakdowns in air conditioning units can stem from wear and tear, poor maintenance, or factory defects, leading to issues like refrigerant leaks or electrical failures. When a unit exhibits signs of trouble, it's crucial to consult a professional quickly. Timely intervention can prevent extensive damage, prolong the unit's life, and maintain indoor comfort.





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# What is Solar PV?

Solar PV (photovoltaic) systems are a renewable energy solution that harnesses the power of the sun to generate electricity.

Solar panels made up of photovoltaic cells, capture sunlight and convert it into usable electricity for your home or business. These systems work even on cloudy days, relying solely on direct sunlight and daylight.

Solar PV is a sustainable and eco-friendly way to reduce reliance on traditional energy sources, lower your carbon footprint, and save on energy bills. Solar PV offers a clean and efficient way to power your property year-round, whether for residential or commercial use.



# Solar PV Services

J. Shipley Heating Engineers offers expert Solar PV (photovoltaic) services, helping homeowners and businesses harness the sun's power to generate clean, renewable energy.

Our team provides a full range of services, from system design and installation to maintenance and monitoring, ensuring that your solar panels operate efficiently for years to come.

## Benefits of Solar PV:

- **Lower Energy Bills:** Generating your own electricity can significantly reduce your energy bills, especially as energy prices continue to rise.
- **Environmental Impact:** Solar PV systems produce clean, renewable energy, reducing your carbon footprint and contributing to a more sustainable future.
- **Government Incentives:** Schemes like the Smart Export Guarantee (SEG) allow you to sell excess electricity back to the grid, further boosting your savings.
- **Increased Property Value:** Solar panels can increase the value of your home, making it more attractive to environmentally conscious buyers.
- **Energy Independence:** Relying on solar power reduces dependence on traditional energy sources, offering more control over your energy supply.
- **Own your property** (this can be a home or a small business property).
- **Have a property with an installation capacity up to 45kWth** (this covers most homes).
- **Have a valid energy performance certificate (EPC)** Your EPC must **not** have any outstanding recommendations for loft or cavity wall insulation (unless you have any insulation exemption).



# Our Other Services

We are proud to showcase some of the other services that we offer at J.Shipley Heating Engineers.

## New Boiler Installation

We offer reliable and efficient boiler installation services, with extended guarantees and financing options available to suit your needs. Additionally, we are approved installers for Worcester Bosch and Baxi. We are also Gas Safe registered engineers.

## Power Flushing Services

Power flushing is a cleaning service that removes sludge and debris from your central heating system, improving water flow and efficiency. It helps radiators heat up faster, reduces energy costs, and extends your boiler's and radiators' lifespan, ensuring optimal performance.

## Care Plans

We offer a range of boiler care plans from as little as £13.00 per month. As homeowners, we tend not to think about the importance of our heating system, until a problem occurs. It can be also at a time that you least expect it, that means you can be frantically trying to find a local company to solve your problem as none of us like to be without heating and hot water for too long.

**View all our services at [www.shipley-heating.co.uk](http://www.shipley-heating.co.uk)**



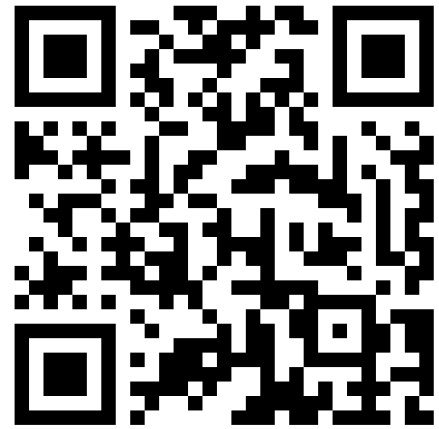




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