

OUR RENEWABLE SERVICES

From listed townhouses to forward-thinking developments, we're helping Edinburgh homeowners and businesses unlock the benefits of renewable energy — without compromising on comfort or design. As fully MCS-accredited installers (MCS1109), we offer expert installation and ongoing support for the latest clean energy technologies.

What We Offer:

Solar PV/Thermal



Your roof, your power station.

We design and install bespoke solar photovoltaic and solar thermal systems to turn your roof into a clean energy source — tailored for homes, businesses, and conservation areas.

Battery Storage



Store it. Use it later.

Capture surplus electricity and use it when the sun's gone down. We offer high-capacity battery systems integrated with your solar PV setup, giving you greater energy independence.

EV Charger



Charge at home or work.

Future-proof your property with a sleek EV charger solution. We install home and commercial charge points compatible with all major electric vehicles.

Air Source Heat Pumps



Efficient low-carbon heating.

We install advanced air source heat pumps that extract warmth from the air outside — even in winter. Reduce your heating bills and carbon footprint in one move.



Ongoing Maintenance & Servicing

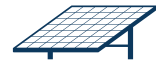
Our specialist teams provide on demand servicing, system health checks, and emergency support — for peace of mind year after year.



Solar PV

VS

Solar Thermal



Solar PV (Photovoltaic) panels turn sunlight into electricity. They power your home — lights, appliances, EV chargers — and work even on cloudy days. With battery storage, you can even save unused energy for night-time.

Think of it as:  **Your own clean power station.**

Solar Thermal panels use the sun's energy to heat water. They're perfect for homes with high hot water demand — like large families or properties with underfloor heating.

Think of it as:  **A solar-powered hot water system.**

	Solar PV 	Solar Thermal 
Purpose	Generates electricity	Heats water
Works on Cloudy Days?	Yes	Less efficient without strong sunlight
Storage Option	Battery storage available	Hot water cylinders store thermal energy
Best For	All-electric homes, EV owners	Homes with high hot water usage
Add-ons	Battery, EV charger	Integrates with existing boiler or heat pump

We design, install and maintain your solar system

OUR SOLAR PV CASE STUDIES

46 Pentland View

Solar PV+EV Charger

Client has a family working from home with **2 young kids** – and looking to get an **EV car**.

We met and built up a user profile of the whole house power needs through a standard 365-day period – also including plotting the future need for EV charging.

The design team prepared a bespoke solution of the usable roof space east west split solar PV system. Running a simulation on our design software giving a forecast of performance and potential ROI, this system is comprised of **12 x 450w DMEG panels** – with a **10kW Duracell battery** and Solis hybrid inverter unit. The battery will be used to store the solar electricity that would otherwise be exported back to the national grid. This system will also be used to generate a return from exported electricity through the smart export guarantee.

Installation was carried out by our specialist teams in line with MCS standards – This client has been able to achieve a level of **70% self sufficiency**.



12 Abbotsford Park



Client has a standalone property in the Edinburgh conservation area, this required P Blackhall to use their architect to design a system that provided adequate system performance to the customer and also met the **strict planning criteria** that insisted on.

Our specialist installation and design teams liaised with various other contractors to carry out numerous projects at the property efficiently maximising the efficiency of the projects and reducing the time needed for access equipment to be erected at the property. The design team prepared a bespoke solution of the usable roof space avoiding any roof space that can be seen from the street, **16 x 450w DMEG panels – with a 10kW Duracell battery and Solis hybrid inverter unit.**

The battery will be used to store the solar electricity that would otherwise be exported back to the national grid. This client has been able to achieve a level of **58% self sufficiency**

With our expertise in designing solar systems that meet strict planning criteria, we're the team to trust if you have a historic or listed property.

5 Old Mill Lane

Client was retired and just x2 people in the property. Although not in the Edinburgh Conservation area this client was very particular about aesthetics – thus an **in-roof system** was chosen.

This system also had many different aspects – panels on x3 different parts of the property required the use of optimizers The design team prepared a bespoke solution of the usable roof space east west split solar PV system 22 x 445w veridian panels – with a 10kW SolarEdge battery and hd wave inverter unit located in the garage.

The battery will be used to store the solar electricity that would otherwise be exported back to the national grid. This also allows them to maximize the use of the smart export guarantee.

This client has been able to achieve a level of **90% self-sufficiency** - with a very large payment back from the energy company



OUR SOLAR THERMAL CASE STUDIES



Solar Thermal Installation

In 2010, P Blackhall pioneered the installation of Solar Thermal systems, back when significant government grants were available under the Renewable Heat Incentive (RHI).

We worked with a client in a ground-floor tenement property in Edinburgh city centre, a 3-bedroom family home with two bathrooms. The household comprised a husband and wife, who also used part of the space as an Airbnb rental.



Our team installed a twin-coiled solar-capable hot water tank, complemented by two Worcester Bosch Green Skies solar panels mounted on the rooftop, which is four stories high. The supply pipework from the rooftop down through the communal stairway was routed right to the ground level, ensuring efficient distribution.

This system has proven highly effective; during the six summer months, the household boasts almost zero gas bills, as all hot water is generated, stored, and used by the house residents and Airbnb guests.

To this day, we are not aware of any other solar thermal installations on tenement properties in Edinburgh. We have serviced this system every two years, and at 15 years old, it continues to operate as it should.

OUR HEAT PUMP SERVICES



What is a heat pump?

A heat pump works a bit like a fridge—but in reverse. Instead of keeping things cold, it pulls warmth from the air or ground outside and brings it into your home. Even on chilly days, there's heat to be found! It's an efficient, low-carbon way to heat your home and hot water, and it can replace or work alongside your boiler. Think of it as nature-powered central heating.

Feature	Traditional Heating (Gas/Electric Boiler)	Heat Pump
Efficiency	~90% (best case)	Up to 400% (yes, 1 unit in, 4 out!)
Fuel Source	Burns gas or uses electricity	Uses natural heat from air or ground
Carbon Emissions	High	Very low
Maintenance	Regular servicing needed	Low maintenance
Lifespan	10-15 years	15-25 years



Services We Offer

Service and optimisation process ; Maintenance, repair and upgrades
Full new install of AHSP (including interlinking with other renewable systems if required) ; Heat loss survey ; Quotations

OUR HEAT PUMP CASE STUDIES



P BLACKHALL OFFICE

In early 2024, P Blackhall Ltd—building on over 10 years of experience with solar thermal and PV systems—began exploring heat pump technology to expand our low-carbon service offering. With strong expertise in gas, plumbing, and electrical engineering, we wanted to gain hands-on knowledge and ensure our team was fully confident working with this growing solution.



To do this, we installed an air source heat pump (ASHP) at our own office. The system served as both a learning tool and a key part of our journey towards MCS accreditation. We carried out a full heat loss calculation to size the system correctly and upgraded our radiators to K3 models for improved performance. With support from Business Energy Scotland, we secured a £7,500 grant towards the installation—demonstrating the kind of support domestic customers can access through Home Energy Scotland. We also made the decision to cap the gas supply entirely, replacing the old boiler with a Worcester Bosch Compress 5800i.

The system has now been running for over a year and a half. Even through a freezing winter, it kept our office consistently warm—proving its efficiency and reliability first-hand.