

Installing renewable energy in your home saves you money on your energy bills and reduces your carbon emissions.

Call the advice line on

01594 544119

09.00–17.00

Monday to Friday

renewables@swea.co.uk

www.swea.co.uk

Get connected to energy that doesn't cost the earth.

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Domestic Renewable Energy Grants in Gloucestershire

Free advice and access to local **grants of £1,000** for renewable energy



See inside for more information today...

Why renewable energy in my home?

With the rising cost of fossil fuels and increasing concerns for future supplies, as well as the environmental damage caused by the emission of 'greenhouse gases' from fossil fuels, there are several reasons why you should consider using technologies which use renewable resources:

- Save money
- Reduce reliance on fossil fuels
- Reduce emissions of greenhouse gases

What help can I get?

The Gloucestershire Renewable Energy Grants service offers:

- Impartial advice to householders on the suitability of renewable energy technologies for your home;
- Help in finding the right technology, and local accredited installers;
- Assistance in applying for grant funding, including a £1,000 local grant;
- Ongoing support through installation

In addition, you may also be able to apply for national grants through the Low Carbon Buildings Programme; see www.lowcarbonbuildings.org.uk or call free on 0800 915 0990 for more information.

Which technology is right for me?

Space and water heating

Solar water heating

Harness energy from the sun and transfer it to your water heater.

Solar thermal systems can provide around 50-60% of an average household's annual hot water needs, with between 2-4m² panels fitted to the roof.

Unobstructed roofs facing between South East and South West are ideal.

Costs start at around £3,000 before grants, including installation.

Heat pumps

Ground and air source

Extract latent heat from the ground or the outside air to heat your home.

Works best with underfloor heating, and is ideal for new builds or renovations.

Low maintenance and running costs.

4-20kW heat pumps are available for domestic properties. Costs start from around £6,000 for the installation of the heat pump and underground heat collector pipes.

Biomass heating

Burning wood for heat does release CO₂ but this is offset by the same amount of CO₂ that the plant or tree absorbs whilst it is growing.

Pellet stoves and automated wood fuelled boilers are ideal for off-gas households, have lower running costs than oil and provide automatic control.

Storage space is required for fuel.

Costs start at £3,000 for an 8kW pellet stove and £6,000 for a 20kW automated log boiler, including installation.

Electricity generation

Photovoltaics (PV)

Turn your roof into a mini power station! Use PV panels to capture energy from the sun to produce electricity. PV only requires daylight to generate electricity year round, not direct sunlight.

Usually fitted to the roof; domestic systems vary in size from 1kW to 3kW peak electrical output.

Good for off-grid sites, but grid-connected sites can import electricity when there's little sunlight and export surplus back to the grid in bright sunlight.

Long lifetime and minimal maintenance.

Costs start at £6,000 per kW peak before grants, including installation.

Wind

Harness the wind to generate electricity, using a free standing turbine.

Highly dependent on wind speed and direction at site— influenced by location, nearby obstructions and height of turbine.

Good option for off-grid windy sites.

1kW to 5kW is ideal for individual homes. For grid-connected sites surplus electricity can be sold back to the grid.

Costs vary between manufacturers, from £1,500 for a 1kW turbine up to around £9,000 for a large domestic turbine, including installation.

Hydro power

Harness the power of a stream or river to generate electricity.

Source needs to be relatively close to where energy will be used.

Cost depends on size of system, starting at £4,000 per kW installed.