



Green heating systems

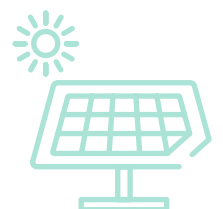
Central heating and hot water can make up a significant part of your home energy bill and carbon emissions. Green heating systems can reduce the cost of heating your home in a sustainable way.

What are green heating systems?

Green heating systems deliver heat and/or hot water to your home in a low carbon way. Examples include heat pumps, biomass (where you burn wood pellets, chips, or logs) and solar water heating.



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Heat pumps: what are they?

A heat pump captures heat from outside and moves it into your home. It uses electricity to do this, but the heat energy delivered to your home is much more than the electrical energy used to power the system. How they do this depends on the type of heat pump:

- Air source heat pump: transfers heat from the outside air
- Ground source heat pump: transfers heat from the ground around your home
- Water source heat pump: uses heat energy from water
- Solar-assisted heat pump: absorbs heat from the sun and air

Other types include hybrid heat pumps, cascaded heat pumps and exhaust air heat pumps.

The right heat pump for your home depends on your circumstances, but they are suitable for many homes and can help reduce your energy bills and cut your carbon footprint.

Want to find out more?

Visit energysavingtrust.org.uk/heat-pumps

Get financial help

You may be eligible for a grant towards the cost of a heat pump or biomass boiler.*
Search '**Boiler Upgrade Scheme**' online to find the GOV.UK web page about the scheme.

Not sure where to begin when it comes to green heating systems?

Energy Saving Trust have in-depth guides covering a range of different types of systems to help you make the right choice for your home. Visit energysavingtrust.org.uk/heating-your-home to find out more.

What is biomass heating?

Biomass energy is generated by burning wood (such as wood pellets, chips, or logs) or other organic materials including household waste.

It is a renewable energy source, but it does release carbon dioxide during the burning process (although it's a lot less than fossil fuels).

Biomass heating systems can either heat a single room (e.g., a stove) or a biomass boiler can be connected to a central heating and hot water system.

Remember, you will need to have a regular supply of fuel (and somewhere to store it) to run a biomass heating system.

Isn't burning wood harmful?

Burning wood does emit gases and particulate matter into the air, but there are ways of limiting emissions and reducing risks. Visit energysavingtrust.org.uk/biomass to find out more.

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*includes water source heat pumps and systems on shared ground loops