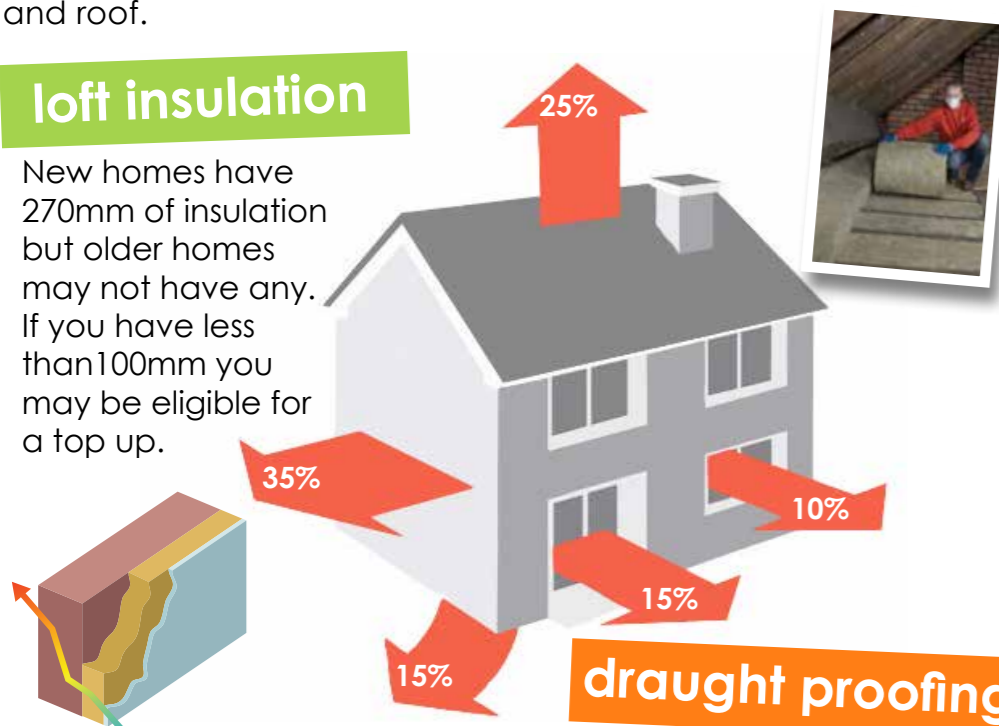


insulation

Insulation is the most cost efficient way to save money on fuel bills, improve home comfort and reduce problems caused by condensation. Half the heat can be lost through the walls and roof.

loft insulation

New homes have 270mm of insulation but older homes may not have any. If you have less than 100mm you may be eligible for a top up.



cavity wall insulation

Houses built after the 1920s are likely to have cavity walls – two walls with a gap in between. This can be filled with insulation to reduce heat loss.



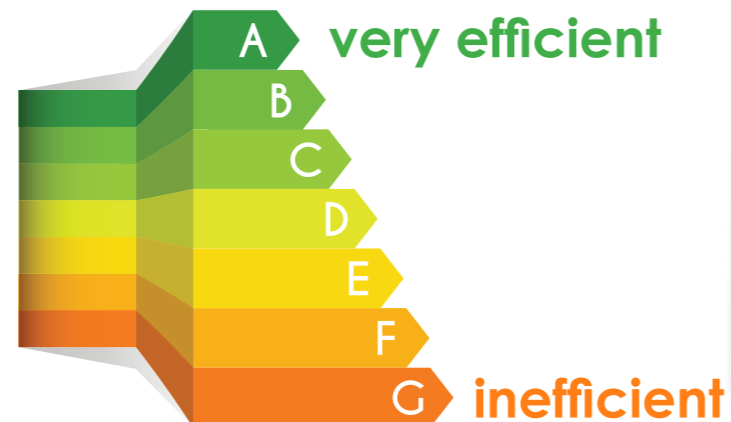
draught proofing

You can lose up to 15% of heat through gaps around doors and windows.

home energy survey

Energy Performance Certificate (EPC)

Gives your house an energy efficiency rating from A (very efficient) to G (inefficient) and tells you how much the energy bills are likely to be and what could be done to reduce them.



thermal imaging survey

Uses an infrared camera to see where heat is lost. This can highlight problems with insulation and damp which cannot normally be seen.



DIY home energy check

A way of doing your own energy survey. It's **FREE** and available online on most energy supplier websites and the Energy Saving Trust.

about act on energy

Act on Energy is an independent charitable organisation, dedicated to tackling fuel poverty and improving energy efficiency. Our team of qualified energy advisors put the householder at the centre of all that we do, supporting them through their energy journey with free, impartial advice.

Act on Energy works in partnership with the local authorities in Worcestershire, Warwickshire, Coventry and Solihull; housing associations and other agencies including Public Health and Age UK. We advise on funding for improved heating systems, insulation, switching energy suppliers and general energy efficiency. We work with a network of recommended installers to provide heating system installations, servicing and repairs.

Act on Energy deliver community based projects through exhibitions, advice surgeries, training sessions and talks to local groups and schools. We also work with large companies to encourage energy efficiency.

save money

and the environment

contact us now! 0800 988 2881

advice@actonenergy.org.uk

www.actonenergy.org.uk

What is fuel poverty?

If you are unable to afford to keep your home warm and dry you maybe in fuel poverty. There are approximately 4 million households in the UK who are in fuel poverty. Fuel poverty is often caused by a combination of factors such as; high energy prices, low incomes, energy inefficient housing.

Department for Business, Energy and Industrial Strategy (BEIS)

your guide to an energy efficient home



save money and the environment

FREE advice line

0800 988 2881

why save energy?

A third of the UK's energy is used in our homes and half of this energy is wasted through inefficiency. Improving efficiency will save you money, save fuel and reduce our impact on climate change, so now is the time to act on energy!

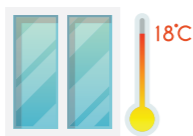
quick tips that will save you money!

no cost

- Turning down the thermostat by 1°C can save 10%*
- Don't overheat hot water. 60°C is right for most homes
- Wash clothes at 30°C
- Dry clothes outside
- Only run a dishwasher when it's full
- Don't cover radiators with furniture or overhanging curtains
- Close internal doors at night and close all curtains
- Switch electrical appliances off if you are not using them

low cost

- Insulate your hot water cylinder
- Replace old style light bulbs with LED bulbs
- Draught proof your windows and doors
- Insulate your loft
- Insulate your walls with cavity wall insulation



which fuel?

A central heating system is best for whole house heating. Most homes have a gas or oil fired boiler and radiators, but there are other types of heating.



• Natural gas (mains gas)

One of the cheapest and most common fuels for central heating. It also has the lowest carbon emissions.



• LPG (liquid petroleum gas)

Often used in rural areas where no mains gas connection is available. Stored in cylinders or a tank outside. Can be expensive.



• Oil

Often used in rural areas where no mains gas connection is available. Stored in a large tank outside. Users sometimes join an oil club to buy oil more cheaply.



• Solid fuel

Coal can be burned in an open fire or in a solid fuel heater. Open fires are very inefficient, as 60% of the heat goes up the chimney!



• Electricity

Generated from a mix of nuclear, gas, coal and renewable energy. Used for heating with plug-in heaters or night storage heaters using an Economy 7 tariff. Expensive to use for heating.

which boiler?

A boiler burns fuel to heat water which is pumped through radiators. It can also heat water in a cylinder. There are different types of boilers and heating systems:

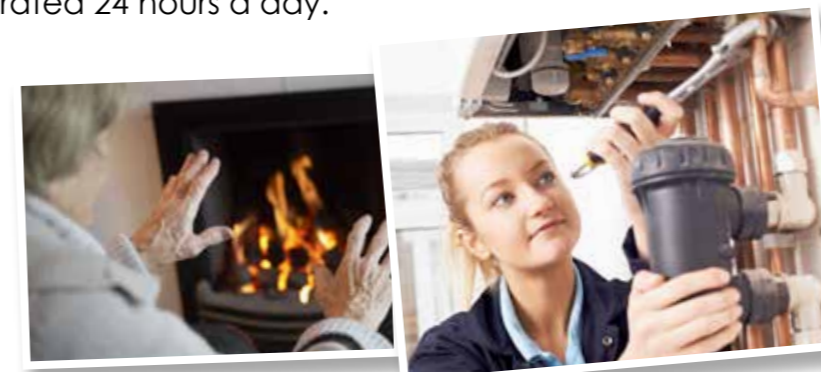
• **Standard boiler** (non-condensing) - heats radiators and water in a separate cylinder, usually in an airing cupboard.

• **Condensing boiler** - recycles heat from exhaust gases to achieve very high efficiency. All boilers installed since 2005 must be condensing.

• **Combination boiler** (combi) - heats radiators and provides instant hot water with no need for a separate hot water cylinder.

• **Back-boiler** - Located behind a gas or solid fuel fire. Popular in the 1970s and 80s. Can be expensive to repair or replace.

• **Solid fuel** - coal, wood or oil burning stove. For space heating or central heating. Can be expensive to run if operated 24 hours a day.



heating controls



For maximum efficiency, the heating system needs controls for time and temperature.

- **Programmer** - sets the time periods your heating and hot water is on.
- **Room thermostat** - turns the heating off when the set temperature is reached.
- **Thermostatic radiator valves (TRVs)** - control the temperature of individual rooms.
- **Cylinder thermostat** - controls the temperature of your hot water. Ideally should be set at 60°C.

For advice on setting your heating controls see information at www.actonenergy.org.uk or call **0800 988 2881 FREE**

what about renewable energy?



Renewable energy is a naturally replenished source of energy such as solar, wind, waves, tidal and geothermal. Renewable energy can **generate electricity** and **heat** without producing ANY greenhouse gas emissions.

You can use the electricity from **solar PV panels** for free and sell any surplus electricity back to the grid. If you generate heat from your own **solar thermal panels** or a **ground** or **air source heat pump** you can receive payments from the government's **Renewable Heat Incentive** (RHI) scheme.