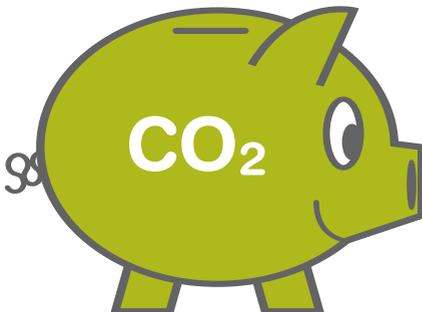


Save energy, save money,  
save the environment:  
Your guide to energy saving grants and offers

- 1 Introduction
- 2 Thinking differently about saving energy
- 3 Small changes, big results
- 4 Generating your own energy
- 5 Your step-by-step guide to energy saving grants and offers
- 6 Energy savers – case study examples
- 7 Want to know more?

The Energy Saving Trust is one of the UK's leading organisations tackling climate change. We are funded by Government and the private sector. Our purpose is to help reduce carbon dioxide emissions through energy efficiency and renewable sources of energy in the home, on the road and in communities.

Call 0800 512 012 to find out how you can save energy and money.



Almost half of our carbon dioxide emissions come from the energy we use at home, and in our transport choices. Every one of us can change the way we use energy and its impact on the environment.

This guide includes:

- 1 Energy saving tips
- 2 How to generate your own energy
- 3 How to apply for a grant or offer

In case you need further information or advice at the end of the guide you'll find a table containing a list of useful website addresses and telephone numbers.

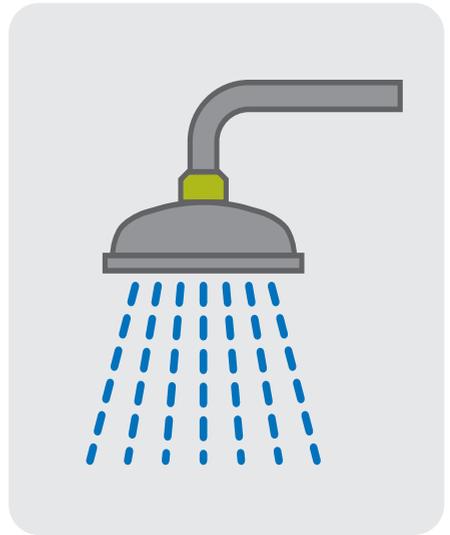
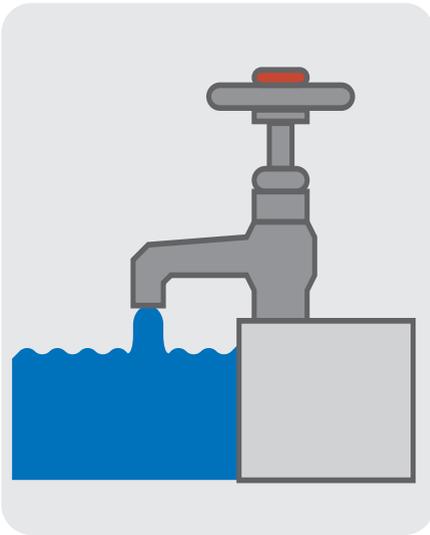
We hope this guide helps you to save energy. Together we can help reduce the impact of climate change.

**You don't  
have to be  
on a low income  
to get a grant,  
advice or  
information**

It's extremely easy to waste energy without even thinking about it. Making small changes to your daily life can dramatically lower the amount of energy you use.



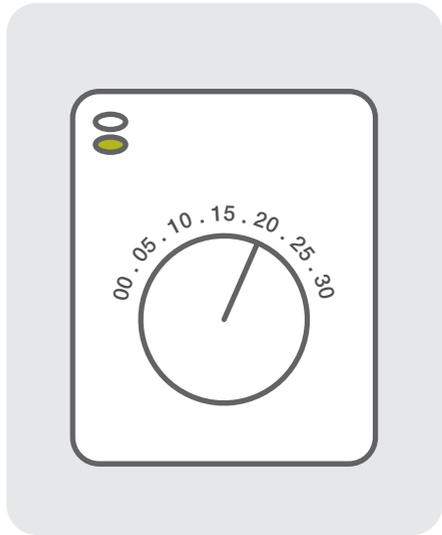
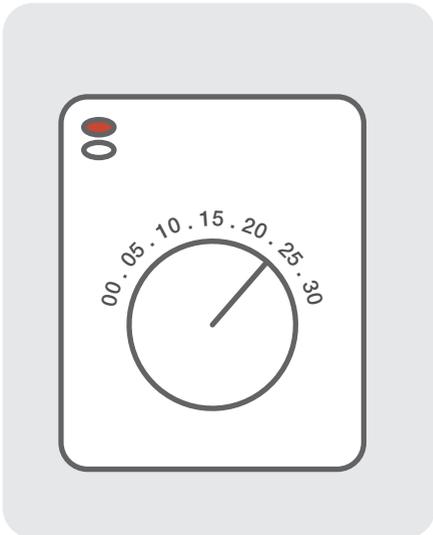
Leaving appliances on standby – rather than switching them off can add up to eight per cent to your electricity bill.



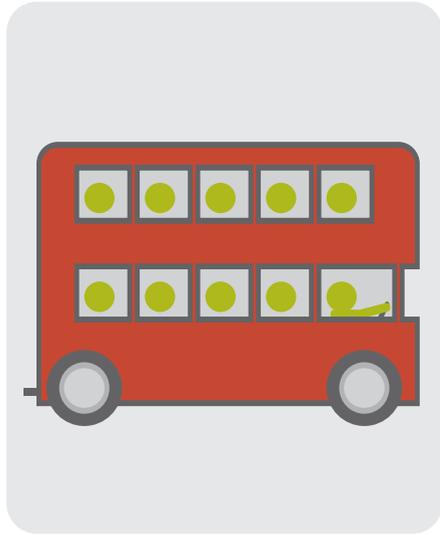
Having a shower instead of a bath saves both energy and water.



Overfilling the kettle. Only use the water you need – it takes less time to boil and uses less energy.



Turning down your thermostat by one degree centigrade can save up to 10 per cent on your heating bill – and remembering to turn off/down your heating when going to work can save you even more money.



Taking public transport, rather than driving to work can significantly reduce carbon emissions from your travel – and your journey is often quicker too.

By turning your heating down by one degree centigrade, switching your lights off when not needed, and turning appliances completely off when not in use you could save around £75 a year.

Why not visit our Commit website – [www.energysavingtrust.org.uk/commit](http://www.energysavingtrust.org.uk/commit) – where you can find out about and commit to undertake various energy saving measures.

The Commit campaign is part of our wider [Save your 20%](#) campaign that focuses on raising awareness of the environmental benefits of saving energy and encouraging people to take action to save 20 per cent of the energy they use daily.

Changing your habits at home will impact on your energy use. Your home's products and gadgets can also have a big effect on energy consumption. The more energy efficient they are the better.

Why not carry out a free home energy check online<sup>1</sup> or over the phone<sup>2</sup>?

Our energy saving house on the following spread shows the many different ways that you could make your own home more energy efficient.

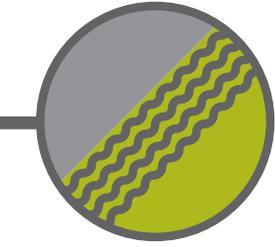
1. [www.energysavingtrust.org.uk/  
help\\_and\\_support](http://www.energysavingtrust.org.uk/help_and_support)

2. 0800 512 012



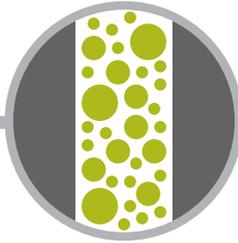
### Loft insulation

Save around £110 a year



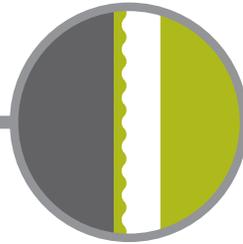
### Cavity wall insulation

Save around £90 a year



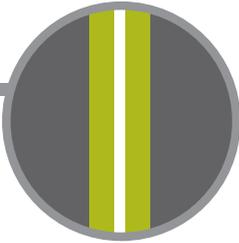
### Solid wall insulation

Save around £300 a year



### Double glazing

Save up to £100 a year



### Energy Saving Recommended logo

Guaranteed top energy saver!



### Energy saving light bulbs

Save up to £7 a year

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## Cavity wall insulation

Most houses built after the 1920s have external walls which are made of two layers with a small air gap, or 'cavity' between them. Insulating your cavity walls can reduce your heating bill by up to a third. With around 9 million homes in the UK with unfilled cavity walls it's worthwhile finding out whether yours is one of them.

The good news is filling the walls is a painless process and is inexpensive, only costing around £500 in total, with an average fuel **saving of around £90 a year**.

If you are not sure if you have cavity walls then call us on **0800 512 012** and we will help you find a local accredited installer to come round and carry out a survey free of charge.

## Loft insulation

With up to a quarter of your heating costs potentially escaping through your roof, ensuring you have loft insulation of at least 270mm is a highly cost-effective energy saving measure and could **save you around £110 a year**.

## Solid wall insulation

If your external walls are solid then you can insulate them on the inside and/or outside, **saving you around £300 a year**.

## Double glazing

It helps to insulate the home and is becoming a 'must have' part of the home because of the comfort factor it gives. It can help **save you £80–£100 a year**, as well as reducing noise and condensation. If it is too expensive to replace all the windows, start with the rooms that cost the most to heat.

## Energy Saving Recommended products

Ensuring that you buy the most energy efficient products possible is another important way of saving energy. Therefore look for the Energy Saving Recommended (ESR) logo when you are next out shopping. It's your guarantee that the product is a **top energy saver**.

The logo appears on over 2,500 products including integrated digital televisions, boilers, heating controls, insulation, lighting, fridges, fridge freezers, tumble dryers and washing machines.

The latest list of Energy Saving Recommended products can be found at: [www.energysavingtrust.org.uk/recommended](http://www.energysavingtrust.org.uk/recommended)

## Energy saving light bulbs

One of the easiest and cheapest options is to install energy saving light bulbs. They use a fifth of the energy and last up to ten times longer than conventional light bulbs and installing just one energy saving light bulb could **save you up to £7 a year** off of your electricity bill.

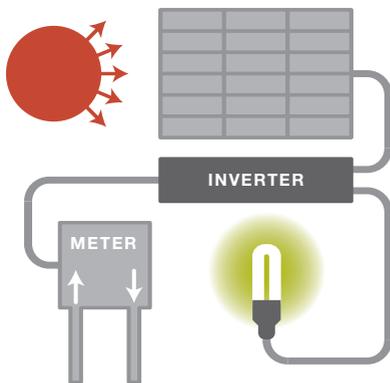
After you've started to use energy more efficiently, insulated your home properly and bought energy efficient products, the next step might be to generate your own energy.

There are a number of options available to you:

**Solar photovoltaics (PV)**

Solar PV systems use cells to convert sunlight into electricity.

PV will work in any weather as long as there is daylight. The greater the intensity of the sunlight, the more electricity is generated. The power can be used on site or fed back into the power grid.

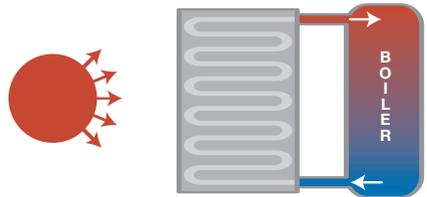


An average domestic system could generate up to half of the electricity needed over the year – providing it is used efficiently and the home has a big enough south facing roof.

**Solar water heating systems**

Solar water heating systems use heat from the sun to pre-heat water for your hot water or space heating needs. Like solar PV systems they are very straightforward to install in your home.

A solar thermal system acts as a collector of sunlight. As fluid is pumped through the collectors, it heats up. This heat is then transferred into a hot water cylinder, and your boiler or immersion heater can top up this heat to the required temperature..

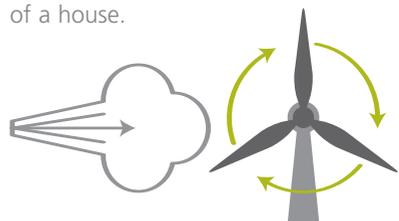


Solar hot water systems can provide you with up to a third of your hot water needs.

**Microwind turbines**

Microwind turbines\* (see p23) work by using the kinetic energy of the wind to turn the blades, which rotate a generator in the shaft to generate electricity.

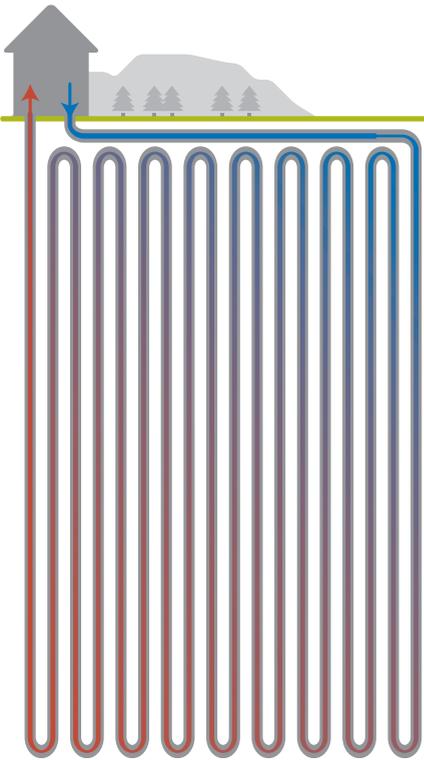
The greater the wind speed, the more power is produced. Wind speed increases with height, so a microwind turbine is usually sited on a mast, or on the roof of a house.



### Ground Source Heat pumps

At just 10 metres underneath the earth's surface, the temperature is constant (around 10 to 14 degrees centigrade) all year round. Ground source heat pumps make use of the ground's constant temperature by converting and transferring this heat into a house or building, usually via radiators or under floor heating.

To use ground source heat pumps you need a big enough outside area or garden in which to lay the ground loop required to capture the heat.

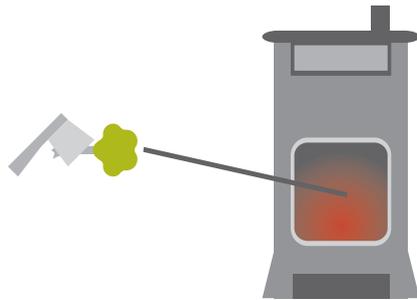
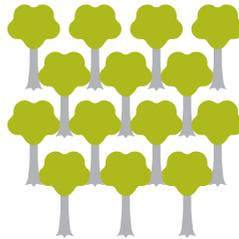


3–4 times more efficient than a condensing boiler.

### Biomass heating

Biomass fuel comes from organic matter of recent origin, unlike fossil fuels which take millions of years to form. It is still considered renewable because it can be replaced at the same rate as which it is used. Biomass falls into two broad categories: woody (forest residues and energy crops like willow) and non-woody biomass (animal waste and high energy crops like rapeseed). In houses there are two main ways to use biomass:

- A stand alone stove that will heat a room space, which can have a back boiler to provide hot water
- A boiler feeding the central heating and hot water system



Saves 6–7 tonnes a year of CO<sub>2</sub> (for typical 15kW pellet boiler system in non-gas households.)

To help with costs, there are a number of grants and offers available towards the installation of energy efficiency measures in your house – such as cavity wall insulation, loft insulation and draught proofing, heating, appliances, energy saving light bulbs and radiator panels.

There are also grants available towards the cost of installing of renewable technologies, such as microwind turbines and solar water heating panels.

### **Who is eligible for the grants and offers?**

It is a common misconception that grants towards energy saving measures are only available to households on low income or benefits. Whilst the Government does offer additional support for the least able to pay, the vast majority of grants are available to any household across the United Kingdom.

### **Who supplies the grants and offers?**

The grants and offers come from three main sources:

#### **1 The Government**

The Government offers up to £2,700 to households on certain benefits to improve their heating efficiency. We also operate the Low Carbon Buildings

programme on behalf of the Department for Business, Enterprise and Regulatory Reform (BERR), which encourages householders to install microgeneration technologies, such as microwind turbines and solar water heating panels.

#### **2 Energy suppliers**

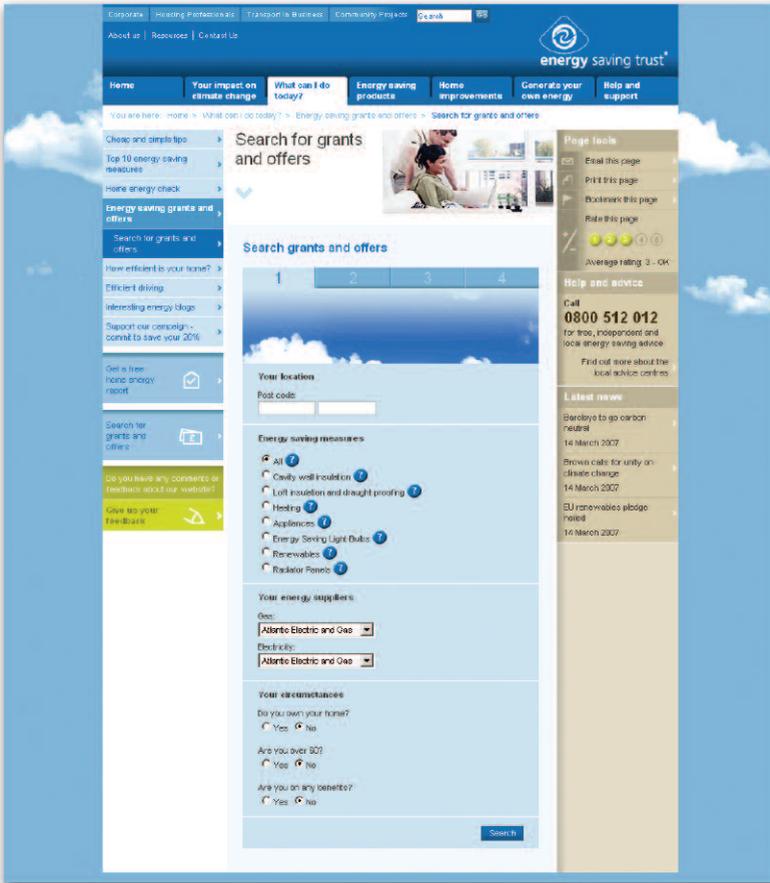
Since 2002, energy suppliers have had targets to promote energy efficiency under the Government's Energy Efficiency Commitment. This supports the Government's long-term goal of cutting carbon dioxide emissions by 60 per cent by 2050. The suppliers therefore provide a range of offers which significantly reduce the cost of installing energy saving and renewable measures. What's more you can take up offers from any of the energy companies, regardless of who supplies your gas and electricity.

#### **3 Local Authorities**

Local Authorities provide grants and offers for local residents to install energy efficiency measures in their home.

### **How can you find out what energy saving and renewable grants and offers are available?**

The simplest way is to visit [www.energysavingtrust.org.uk/gid](http://www.energysavingtrust.org.uk/gid), which provides details of some of the grants and offers available to you based on your circumstances, type of home you live in and location. Alternatively, to speak to an adviser and find out what local grants and offers are available call **0800 512 012**.



Upon accessing the grants and offers database, you will see the above.

Then you simply have to enter your postcode, select the categories appropriate to you and click the “search” button. The database will come back with a list of the grants and offers available to you – like the ones shown on the next page, which you can then tick to request further information.

The screenshot shows the Energy Saving Trust website interface. At the top, there are navigation tabs for 'Corporate', 'Housing Professionals', 'Transport in Business', and 'Community Projects'. Below this is a search bar and a logo for 'energy saving trust'. A secondary navigation bar includes 'Home', 'Your impact on climate change', 'What can I do today?', 'Energy saving products', 'Home improvements', 'Generate your own energy', and 'Help and support'. The main content area is titled 'Search for grants and offers' and displays 'Your results' for 'Cavity wall insulation results'. Three results are listed, each with details on the provider, type, category, name, end date, and description. A sidebar on the right contains 'Page tools' (Email this page, Print this page, Bookmark this page, Rate this page, Average rating: 3.0/5.0), 'Help and advice' (Call 0800 512 012), and 'Latest news' (Barclays to go carbon neutral, Brown calls for unity on climate change, EU renewables pledge halted).

**energy saving trust**

Home | Your impact on climate change | What can I do today? | Energy saving products | Home improvements | Generate your own energy | Help and support

You are here: Home > What can I do today? > Energy saving grants and offers > Search for grants and offers

Choose and compare tips > | Search for grants and offers

Top 10 energy saving measures > | Home energy check > | Energy saving grants and offers > | Search for grants and offers > | How efficient is your home? > | Efficient driving > | Interesting energy blogs > | Support our campaign - please to save your 20% > | Get a free home energy report > | Search for grants and offers > | Do you have any comments or feedback about our website? > | Give us your feedback >

### Search for grants and offers

**Your results**

1 2 3 4

These are the grants and offers which may be available to you based on the details you have provided

Where a check box appears in these offers, you can request more information direct from the provider

For free, impartial advice on the offer or range of offers most suitable for you, call your local Energy Saving Trust advice centre free on 0800 512 012.

Unless otherwise stated, all prices are based on installing measures in an average three-bedroom semi-detached house.

If you would like to change your search criteria, simply click the 'reset search' button below.

Your search returned 70 result(s)

**View your results by type:**

- Cavity wall insulation
- Loft insulation and draught proofing
- Heating
- Appliances
- Renewables

[Reset search](#)

#### Cavity wall insulation results

**Great provider:** British Gas  
**Provider type:** [Energy supplier](#)  
**Provider Category:** [Energy supplier](#)  
**Great name:** Home Insulation  
**End date:** 31-Mar-2007  
**Great description:** You could save up to £165 on your heating bill with cavity wall insulation. British Gas will professionally install cavity wall insulation at a remarkably low subsidised price. Call 0845 371 7731 today to arrange a free survey, quoting GD.  
**Contact telephone no:** 0845 921 7731  
**Website:** [www.britishgas.co.uk/insulation](http://www.britishgas.co.uk/insulation)

**Great provider:** ScottishPower  
**Provider type:** [Energy supplier](#)  
**Provider Category:** [Energy supplier](#)  
**Great name:** Home Insulation  
**End date:** 31-Mar-2007  
**Great description:** Save as much as £100 per year on your heating bills by installing cavity wall insulation. Installation is FREE for people on qualifying benefits.  
**Contact telephone no:** 0845 691 7030  
**Website:** [www.scottishpower.co.uk/energysaving/](http://www.scottishpower.co.uk/energysaving/)

I would like more information on this offer

**Great provider:** Creative Environmental Networks  
**Provider type:** [Energy supplier](#)  
**Provider Category:** [Energy supplier](#)  
**Great name:** energySMART  
**End date:** 31-Mar-2007  
**Great description:** If you want to get big discounts on insulation measures (up to 65% off loft and cavity wall insulation), Cavity wall insulation will typically cut your bill by £100-120 each year. Call for a free quote.  
**Contact telephone no:** 0845 230 3320  
**Website:** [www.enegon.co.uk/](http://www.enegon.co.uk/)

**Page tools**

- Email this page
- Print this page
- Bookmark this page
- Rate this page
- Average rating: 3.0/5.0

**Help and advice**

Call **0800 512 012** for free, independent and local energy saving advice

Find out more about the local advice centres

**Latest news**

- Barclays to go carbon neutral 14 March 2007
- Brown calls for unity on climate change 14 March 2007
- EU renewables pledge halted 14 March 2007

## There are two microgeneration grant schemes managed by the Energy Saving Trust:

### 1 **Low Carbon Buildings Programme (UK wide)**

The BERR's Low Carbon Buildings Programme provides grants for householders.

Grants are available for microgeneration technologies including: solar photovoltaics (PV), microwind turbines, small scale hydro, solar water heating, ground source heat pumps and biomass heating.

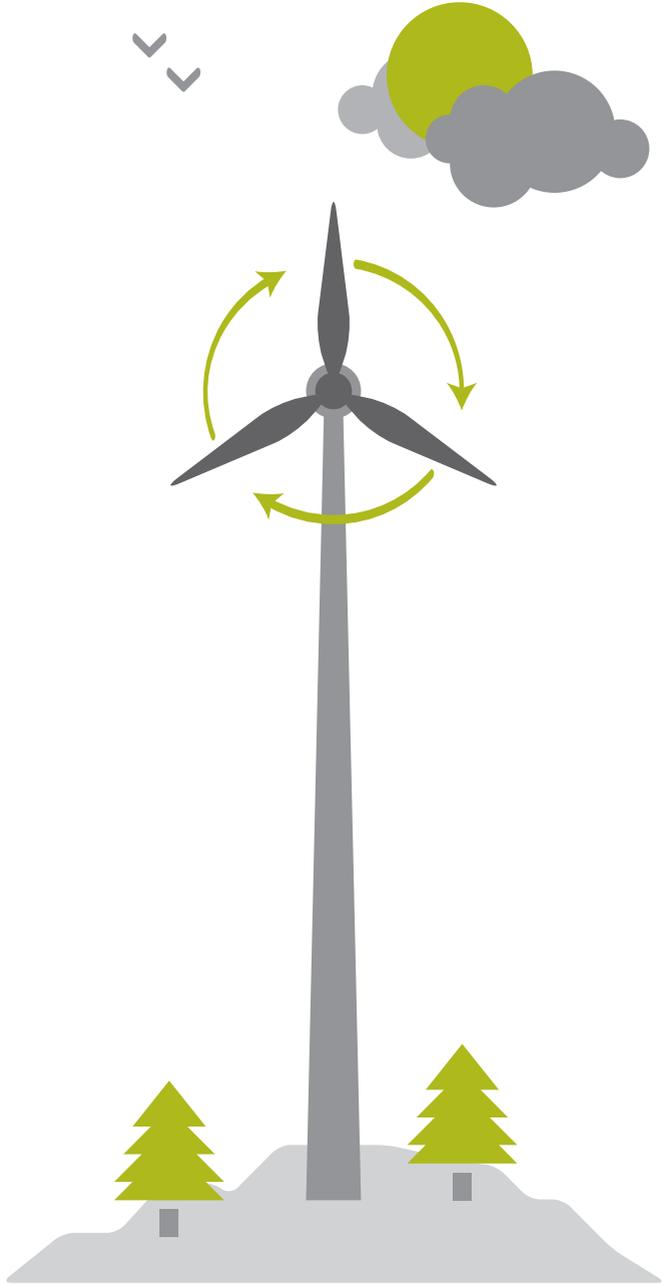
A 50 per cent increase in funding for householders to install small scale renewables was announced in the Budget on 21st March 2007. Please visit the Low Carbon Buildings Programme website – [www.lowcarbonbuildings.org.uk](http://www.lowcarbonbuildings.org.uk) – for the latest information.

### 2 **Scottish Community and Householder Renewables Initiative (Scotland only)**

The Scottish Community Householder Renewables Initiative (SCHRI) provides grants for householders in Scotland. The scheme is managed by the Energy Saving Trust and funded by the Scottish Executive.

Grants are available for solar water and space heating, small-scale wind and hydro systems, heat pumps and biomass. Funding for householders is set at 30 per cent of the installed cost – up to £4,000.

If you live in Scotland you can choose to have a SCHRI or a Low Carbon Buildings programme grant. Please note: you can only apply for one grant per technology from either SCHRI or the Low Carbon Buildings programme. You cannot have a grant from both programmes for one technology.



## The SCHRI (Scottish Community and Householder Renewables Initiative) supports a range of renewable energy technologies including:

- micro hydro-electric
- microwind
- solar water heating
- solar space heating
- automated wood fuel heating systems (Biomass boilers and room heaters/stoves)
- heat pumps (ground, air and water source)
- connections to the Lerwick District Heating Network\* (applies to heat exchanger only. Radiators/internal heat distribution system not eligible for grants)

\* Connections to the Lerwick District Heat Scheme in Shetland qualify for funding because the primary fuel source is energy from waste, an eligible option under SCHRI.

Funding for householders is set at 30 per cent of the installed cost of a renewable measure – up to £4,000. Householders can also apply for separate grants for two different technologies.

### The following criteria must be met:

- the applicant must own the property where the renewable energy system is to be installed
- one quote from an accredited installer must be provided
- the system must be installed and commissioned by an approved installer using approved system components.

To download an application form and to find an accredited installer please visit the SCHRI website, [www.energysavingtrust.org.uk/schri/household](http://www.energysavingtrust.org.uk/schri/household) and follow the appropriate links (*How can I get it installed?* and *Download an application form*)

## Grants for community groups, public, private and not for profit sector organisations

The Energy Saving Trust can also provide advice on energy saving measures and renewable grants for community groups, public, private and not for profit sector organisations. To find out more then please visit [www.energysavingtrust.org.uk/housingbuildings/funding/database](http://www.energysavingtrust.org.uk/housingbuildings/funding/database)

Mother of two Sandra lives in a three-bedroom detached bungalow in West Wickham, Kent. One of the property's distinctive features is a huge loft: handy for storage, maybe – but also responsible for making the Naggie home noticeably cold and draughty.

Luckily, one of the Naggies' neighbours had recently solved the very same problem – simply by installing loft and cavity wall insulation and urged Sandra to get expert advice on energy saving. Sandra's first port of call was Bromley Council, who immediately referred her to the local EEAC.

### Surveying the problem

She spoke to an EEAC advisor on the phone who took her through a free Home Energy Check to help work out which energy-saving measures would be best for her bungalow.

The advisor recommended that Sandra have cavity wall and loft insulation installed. The EEAC also identified a local grant scheme, which meant this could be carried out at a heavily discounted price.

With the generous grant secured, the EEAC advisor put Sandra in touch with a trustworthy local installer, who carried out his own survey and provided a free quote for installation.

### Instant results

After a straightforward installation process, the warmth now stays within the bungalow's walls – transforming a cold, draughty house into a warm, comfortable home.

### Start as you mean to go on

Seeing her heating bills plummet inspired Sandra to look at other areas where her family could conserve energy. She installed energy-saving lightbulbs throughout the home – and made sure her kids wised up to a new energy-saving way of life.

### Recommending to others

Energy efficiency begins at home, but now estate agent Sandra is passing on the benefits of EEAC advice to friends, family – and even her clients. Sandra said: "When I take people to view houses, I always point out a property's energy-saving qualities."

### Energy-saving results

Cavity wall and loft insulation means that Sandra Naggie's home is now warm without the need for the heating to be on full blast. This has meant great winter savings on energy bills, which have come down by around a third.



Barry Clayton is a passionate advocate of energy saving. Believing that each of us has a responsibility to reduce our impact on the environment he applied for a Low Carbon Buildings Programme grant towards the cost of installing solar thermal panels in summer 2006.

The application process was simple, with a generous grant received towards the cost of the installation which was carried out quickly and painlessly by a local accredited installer.

### Cutting your energy bills

Liquid petroleum gas (LPG) is used for the house's heating and hot water – an expensive option. With the panels now installed Mr Clayton has noticed a dramatic decrease of 35 per cent in gas use and in between summer and autumn 2006, over 550 hours of heat was generated from the panels.

### Small changes, big results

Barry has had his bungalow's cavity walls filled and has increased the level of loft insulation to ensure the house is as energy efficient as possible, maximising the effectiveness of the solar panels.

Small changes are important too. The tumble dryer has been ditched in favour

of hanging clothes outside to dry – when possible! The dishwasher is rarely used and when it is cold an extra layer of clothing is popped on, rather than simply turning up the heating.

### Taking responsibility, influencing others

For Mr Clayton, the responsibility and onus of dealing with climate change lies with each and every one of us and he is quick to tell his friends and neighbours that too! Many have now followed his lead and begun to save energy – a win, win situation.

Proof that individuals – like Barry – can have a big impact is aptly demonstrated by the fact the local newspaper, the Hexham Courant – decided to write a story about his energy saving achievements. He has also set up a group for like-minded individuals to raise the profile of the climate change issue in the local area.

Standing still on the climate change issue isn't an option for Barry. He believes constant improvement is essential. To back up his words, he is looking to invest in either a wind turbine or solar PV panels in the near future.



## Consumer

### Energy saving advice

Whether you're looking for offers and discounts to help you make improvements, a reliable supplier to install them, or simply need more information on ways to save energy in your home then call **0800 512 012** to speak to your local advice centre. Or visit [www.energysavingtrust.org.uk/help\\_and\\_support](http://www.energysavingtrust.org.uk/help_and_support)

### Energy saving grants and offers

For details of the latest energy saving offers and grants visit [www.energysavingtrust.org.uk/gid](http://www.energysavingtrust.org.uk/gid)

### Energy Saving Recommended products

For details of the most energy saving products visit [www.energysavingtrust.org.uk/recommended](http://www.energysavingtrust.org.uk/recommended)

### Low Carbon Buildings Programme

For information on renewable grants availability, funding levels and how to apply please visit [www.lowcarbonbuildings.org.uk](http://www.lowcarbonbuildings.org.uk)

### Scottish Community and Householder Renewables Initiative (SCHRI)

For information on renewable grants availability, funding levels and how to apply please visit [www.energysavingtrust.org.uk/schri](http://www.energysavingtrust.org.uk/schri) (Scotland only)

## Business & Local Authorities

### Transport

If you're looking for cleaner, more sustainable travel and transport options that could save you money, we can help. We offer support to businesses and Local Authorities through our Transport Helpline and Fleet Consultancy Service and funding for selected transport programmes with grants. Visit [www.energysavingtrust.org.uk/fleet](http://www.energysavingtrust.org.uk/fleet), or call **0845 6012 1425**

### Building professionals

We work with building professionals involved in designing, specifying, planning or installing to help promote the sustainable use of energy in homes. For more information on the advice and grant support, which includes best practice guides, technical advice and training seminars please visit [www.energysavingtrust.org.uk/housingbuildings/professionals](http://www.energysavingtrust.org.uk/housingbuildings/professionals) or call **0845 120 7799**

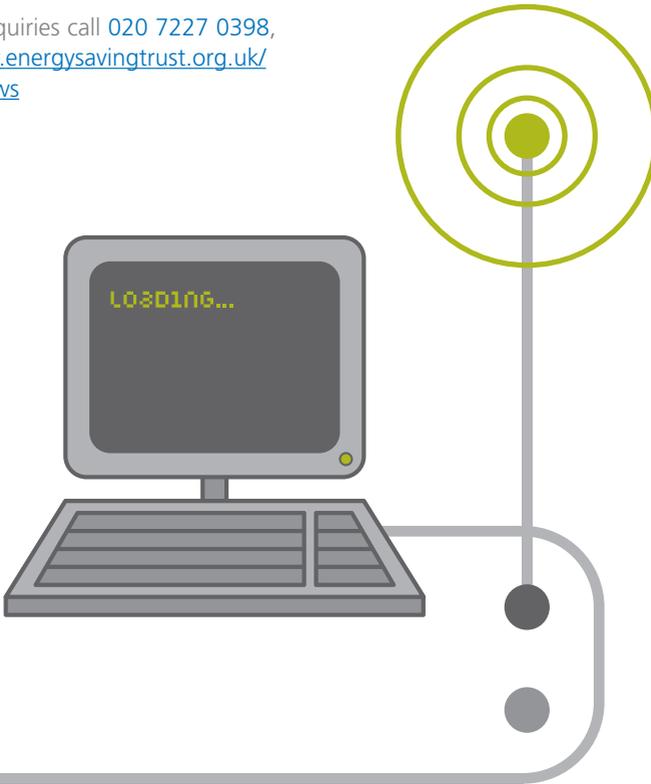
### Local Authorities and housing professionals

We offer a range of advice, support and information to Local Authorities and housing providers, including publications and free consultancy. Visit [www.energysavingtrust.org.uk/housingbuildings/localauthorities](http://www.energysavingtrust.org.uk/housingbuildings/localauthorities) or call **0870 241 2089**



## Media

For press enquiries call 020 7227 0398, or visit [www.energysavingtrust.org.uk/aboutest/news](http://www.energysavingtrust.org.uk/aboutest/news)



\* Please note that the electricity generated at any one time by a wind turbine is highly dependent on the speed and direction of the wind. The windspeed itself is dependent on a number of factors, such as location within the UK, height of the turbine above ground level and nearby obstructions. Ideally, you should undertake a professional assessment of the local windspeed for a full year at the exact location where you plan to install a turbine before proceeding.

In practice, this may be difficult, expensive and time consuming to undertake. Therefore we recommend that, if you are considering a domestic building mounted installation and electricity generation is your main motivation, then you only consider a wind turbine under the following circumstances:

- The local annual average windspeed is 6 m/s or more.
- There are no significant nearby obstacles such as buildings, trees or hills that are likely to reduce the windspeed or increase turbulence

If you are in any doubt, please consult a suitably qualified professional.

Note that a formal offer of a LCBP grant offer does not constitute any guarantee as to the performance or savings you may achieve from installing a wind turbine.



Energy Saving Trust, 21 Dartmouth Street, London SW1H 9BP, Tel 020 7222 0101, [www.est.org.uk](http://www.est.org.uk)

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