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Greater Manchester
Energy Efficiency Advice Centres

Using Less *Electricity*

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Using less electricity

Introduction

- Saving electricity becomes an increasingly important issue for consumers as the cost of electricity increases.
- Reducing electricity can be accomplished quickly.
- Using less electricity will also reduce the impact on climate change

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Low energy Light bulbs



Low energy light bulbs are a relatively quick and effective way of saving electricity

Improvements to the range of bulbs available

Lighting manufacturers are working towards fittings only being able to take low energy bulbs.

Advances such as the one watt

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Practical ways of saving electricity

- using a timer with an electric immersion heater
- Only filling the kettle with the amount of water that's needed.
- Not leaving fridge and freezer doors open unnecessarily
- Use of 'plugsaver' plugs on fridges and freezers
- Defrosting freezers regularly and not leaving them empty

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More ways to use less electricity...

- Wait until there is a full load when using a washing machine
- Wash clothes at 30 °C
- Installing a thermostatic shower instead of an electric one
- Using a microwave or a slow cooker
- Putting lids on pans

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Even more ways of using less electricity

- Making sure appliances are not left on standby
- Use of a 'Powerdown' plug
- Use of 'bye bye standby' remote controlled switch

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Rising electricity demands



We are increasingly faced with a growing number of electrical appliances coming onto the market and by looking for the Energy Saving Recommended logo, It's a guarantee that these products are the most energy efficient in their category costing less to run.

A recommended fridge freezer will cost £45 per year less to run than its 10 year old equivalent.

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The Energy Saving Recommended logo can be found on a wide range of electrical products, such as light bulbs, light fittings, integrated digital televisions (IDTVs) and kitchen appliances like fridges, dishwashers and washing machines.

The idea is that whatever the product, whichever the labelling system - all you need to do is look for the Energy Saving Recommended logo.

For example, for fridges it endorses A+ products which are more energy efficient than A rated products and the washing machines must be AAA - that's A for energy, A for wash quality and A for spin.

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Awareness of electricity consumption

Electrisave unit

- The electrisave uses a simple clip-on sensor and transmitter to transmit a real time reading of actual power being used, to a portable LCD display.
- This reading then shows the cost of electricity being used or potentially being wasted allowing informed decisions to be made on which appliances to use, which appliances are costing the most to run and serving as a constant reminder to turn off unneeded appliances.
- Trials have shown saving on electricity bills of up to 25%.

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Understanding electricity consumption

Each electrical appliance will have a label which shows how many watts the product uses. In the case of a toaster this may be 1500 w (watts)

1000w is a kilo watt which is one unit of electricity when used for an hour (kWh)

So we can see that the toaster would use 1.5 units of electricity if it was on for an hour. If we times this by the tariff being charged by our electricity supplier (12p per unit) we can work out that the toaster would cost 18p per hour to run.

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Understanding electricity consumption cont...

So in the case of an electric shower at 10,000 w

That's £1.20 per hour (Family 4 x 15 min showers per day)

**Lets see how easy it is to guess the wattage of familiar
domestic appliances!!!**

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Electricity hierarchy



Using low energy products



Switching off electrical appliances and using energy efficiency devices



Installing wind and solar PV to further offset the electricity requirements

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