

Low energy light bulbs use significantly less electricity than that needed to power an “ordinary” (i.e. tungsten filament) light bulb.

By using low energy lightbulbs, you can reduce your energy consumption and therefore reduce your energy bill.

Energy saving lightbulbs (CFL's)

Energy saving lightbulbs are compact fluorescent lamps which produce light by using only a fraction of the electricity used by ordinary bulbs (They are effectively miniaturised fluorescent tubes). They can also last up to ten times longer, and so go on using less energy, year on year.

Energy saving lightbulbs are manufactured in a variety of shapes, sizes and fittings. They are available in different bayonet / screw fixings, therefore should fit any household lamp.



Brightness

Energy efficient lightbulbs are also available in a number of wattages, just like ordinary lightbulbs.

It does not matter what size or shape of bulb you use. Look around your home to see where you have the lights on most often or for the longest period of time. These are the best bulbs to replace with CFL's as they will save you the most money.

Savings

By using energy saving lightbulbs you save money in two ways:

1. You use less electricity... so you pay less on your bill.
2. Because the bulbs last TEN TIMES as long, you buy FEWER bulbs.

What's the Difference?

Using Tungsten Filament Bulbs**	100W	60W	40W
Approximate Electricity Cost	£140.00	£84.00	£56.00
Cost of 10 x Bulbs	£4.50	£4.50	£4.50
Total Cost	£144.50	£88.50	£60.50
Using The Low Energy Equivalent	20W	15W	8W
Approximate Electricity Cost	£28.00	£21.00	£11.20
Cost of 1 x bulb	£1.00	£1.00	£1.00
Total Cost	£29.00	£22.00	£12.60
SAVINGS	£115.50	£66.50	£47.90

(Based on 10,000 operating hours at 14p/kWh and ** if still available)

Remember !

The latest energy saving bulbs shaped like ordinary bulbs, are best placed in fittings where the lamps are switched on for long periods of time.

If you have exterior security lighting that is left on for several hours per night, an energy saving bulb will be more cost effective.

One thing to note about CFL's (given their manufacturing process and contents) is that they should be disposed of in the same way as a fluorescent lamp, i.e. at a civic re-cycling centre.

Light Emitting Diode (LED) Lighting

An alternative to using traditional light bulbs or CFL's would be to use LED's.

LED lights (or **LED bulb**) use a light emitting diode as the source of the light. LED's are long life bulbs and use very little energy, (they use just 3 Watts). The bulbs give off virtually nil heat but do provide a high level of light.

As LED's are *fairly* new to the market place, the initial purchase costs are significantly higher but with their long life and the very low energy consumption these light bulbs should be considered as an alternative to CFL's.

LED's are available in different options, but have been manufactured to replace the traditional 50 – 60 watt halogen light bulb which emit high amounts of heat and as a consequence do not have a long lifespan.



Using Tungsten Filament Bulbs**

Approximate Electricity Cost

Cost of 10 x Bulbs

Total Cost

60W

£84.00

£4.50

£88.50

LED's

Approximate Electricity Cost

Cost of 1 bulb

Total Cost

8W

£11.20

£13.00

£24.20

SAVINGS ***

£64.30

*(*** Based on 10,000 operating hours at 14p/kWh...NB it would be likely that you would use all 10 bulbs during the 10,000 hours use).*

Further advice and information

Should you have any questions regarding energy efficiency or wish further information, please contact

<p>East Renfrewshire Council Energy Efficiency & Carbon Reduction Unit 0141 577 8529</p>	<p>Home Energy Scotland 0808 828 2282</p>
---	--

Please Note: Whist care was taken to ensure that the advice contained in this document is accurate; it cannot replace expert advice. It is intended as a guide only and the Council cannot accept any responsibility for any damage or loss incurred by an individual relying on the accuracy of the information.