

# LED Lighting Solutions

There are three different types of low energy bulbs that can save you money compared to traditional incandescent bulbs; CFLs (compact florescent lamps), halogens and LEDs (light emitting diodes).



CFLs use 60-80% less energy than incandescent bulbs.



Halogens use 20-30% less energy than incandescent bulbs (but you will often have more halogens in a fitting, using more energy).



LEDs use around 90% less energy than incandescent bulbs.

Other benefits of LED bulbs include:

- LEDs are instantly bright when switched on (unlike CFL bulbs)
- Some LEDs can last around 25-30 years.
- LEDs don't contain mercury (unlike CFL bulbs)

During an energy audit it was identified that a large chunk of local resident, John's, electricity consumption might be due to lighting. The property had 20 halogen bulbs so South Seeds fitted an electricity monitor for John to check his electricity usage – the halogen bulbs were costing a lot of money. John made the switch from 35W halogens to 3W LED bulbs and really likes the new bulbs, “the light you get is better, brighter and a cooler white. I am so im-

**“the light you get is better, brighter and a cooler white”**



Local resident John showing a range of different energy saving bulbs—he's now a bit of an expert!

pressed with them I have been recommending LEDs to friends, family and even at my dentist!”. During the time that he had the electricity monitor John reduced his electricity usage by 40.1% and when we checked 9

months later he was still managing to save 33.1%. This continued saving on electricity usage was around 2kW per day, which equals a saving of £106.76 per year. This saving means that John will be able to pay back all 20 LED bulbs easily within 14 months. This saving is even better when you consider that LEDs last around 10 times longer than