

# LED LIGHTING

As the current economic crisis continues so many homeowners are looking for ways to ensure that the money they have available goes that little bit further. So as a result they are now looking for ways that can help them reduce the costs of actually running a home.

One way that this can be achieved is through the use of LED lighting. Not only does this form of lighting need to use less energy in order to power it but also is capable of lasting considerably longer than normal lighting can. In fact as a testament to its abilities the state of California in the USA is in the process of introducing a law that will ban the use of incandescent lighting this year.

So just what are the differences between LED (light emitting diodes) and conventional lighting that has made California decide

to ban their use? Below we take a look at just some of these differences.

Difference 1- With the traditional incandescent lighting for the light to be created energy must pass through a very thin element to heat it to a high enough temperature that results in light being emitted from it. The problem with this process is that around 98% of all the energy used to create the light it emits is in fact lost in the form of heat. Normally such lights would be expected to work for around 1,000 hours before they need replace.

Difference 2 - All LED light bulbs are not fitted with any filaments or tubes within them so the likelihood of them breaking is greatly reduced. In fact the lifespan of these types of bulbs when used in light fixtures in the home is considerably longer. In many cases they are able to produce light for around 50,000 hours before they need to be replaced. This equates to them having a lifespan of around 10 years.

Difference 3 - This type of lighting may be smaller than other types but you will find that it is able to emit light for each unit of current used. So of course this helps to ensure that it is the most energy saving form of lighting you can purchase and use in your home or business today. In fact if you were just to switch one light source in your home from conventional to LED lighting then you can save as much as 30% each year on your electricity bill. So just imagine what would happen if you decided to change every single bulb in your home over to the LED type.

Difference 4 - You will find that the amount of heat that LED lighting emits is next to none and so there is no risk to them causing a fire to take place in your home should the light remain on for too long. Initially when LED lighting bulbs became available we were restricted to only the kind of bulbs that you would have in light fixtures in your home. However with advances in LED technology today that this type of lighting can be used in many

different ways. There are LED bulbs for cars, torches and as well as lights that you place around your Christmas tree.