

## LED LIGHTING

The LED lighting era is upon us, but what are the benefits of using LED lights instead of conventional lighting?

LED lights are free of toxic chemicals such as mercury which can be found in conventional fluorescent lighting and are 100% recyclable. Using LED lights alone can reduce your carbon footprint by a third.

The operational life expectation of a LED bulb or diode is in excess of 40,000 hours. LED's are different to standard lighting, rather than burning out or no longer working they emit lower output levels over a very long period and become less bright. The LED bulbs and diodes also have an estimated energy efficiency of around 80-90% meaning only 10-20% of energy is lost through heat. Conventional lighting has an energy efficiency of 20% meaning around 80% of energy is lost through heat.

Long operational life decreases the amount of time and money spent on maintenance; imagine a large infrastructure such as an airport and how much time and money it would cost to replace the conventional light bulb. Compared with conventional lighting - LED lighting is always the winner.

