



Efficient lighting this Summer

Residential fact sheet



From an electricity system's perspective energy efficient lighting has the benefit of reducing electricity demand, including during the evening peak period. It therefore contributes to the security of electricity supply in the country.

Energy efficient lighting has become the goal of nearly every modern homeowner. Lower costs, higher performance – what's not attractive about that? Lighting upgrades are commonly listed as one of the quickest and simplest methods of improving home efficiency, and this is for good reason.

Traditional lighting uses very little of its energy to produce light. In fact, 90% of an incandescent light bulb's energy is wasted as heat. Compact Fluorescent Lamps (CFLs) and Light Emitting Diode (LED) lights, on the other hand, generate light in a more efficient way, giving off far less heat than incandescent bulbs and letting you rest a little easier about electricity usage costs.

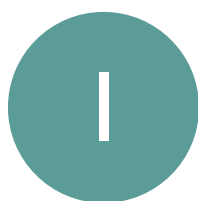
So, what are the biggest perks of high-efficiency lighting? In its simplest definition something that is energy-efficient, an appliance or product that offers higher performance while using less power. But when it comes to lighting solutions like LED or CFL fixtures and bulbs, you stand to gain a good deal more. Here's what new energy-efficient lighting in your home will bring to the table:

Lower energy costs:

A primary feature here tends to be that both LED and CFL feature much lower energy consumption when compared to traditional incandescent bulbs. You can expect an LED to use a tenth or less wattage, and a CFL to use roughly twenty percent on average. For a single bulb the difference is small, but when you're talking a whole-home and outdoor lighting upgrades the difference can be substantial.

Longer bulb and fixture lifespans:

Tired of swapping out bulbs all the time and going through the expense of buying bulbs by the dozen? Energy-efficient bulbs do cost more upon purchase, but they also outlive traditional bulbs by many years. That places this investment firmly in the "smart idea" category.



Less environmental impact.

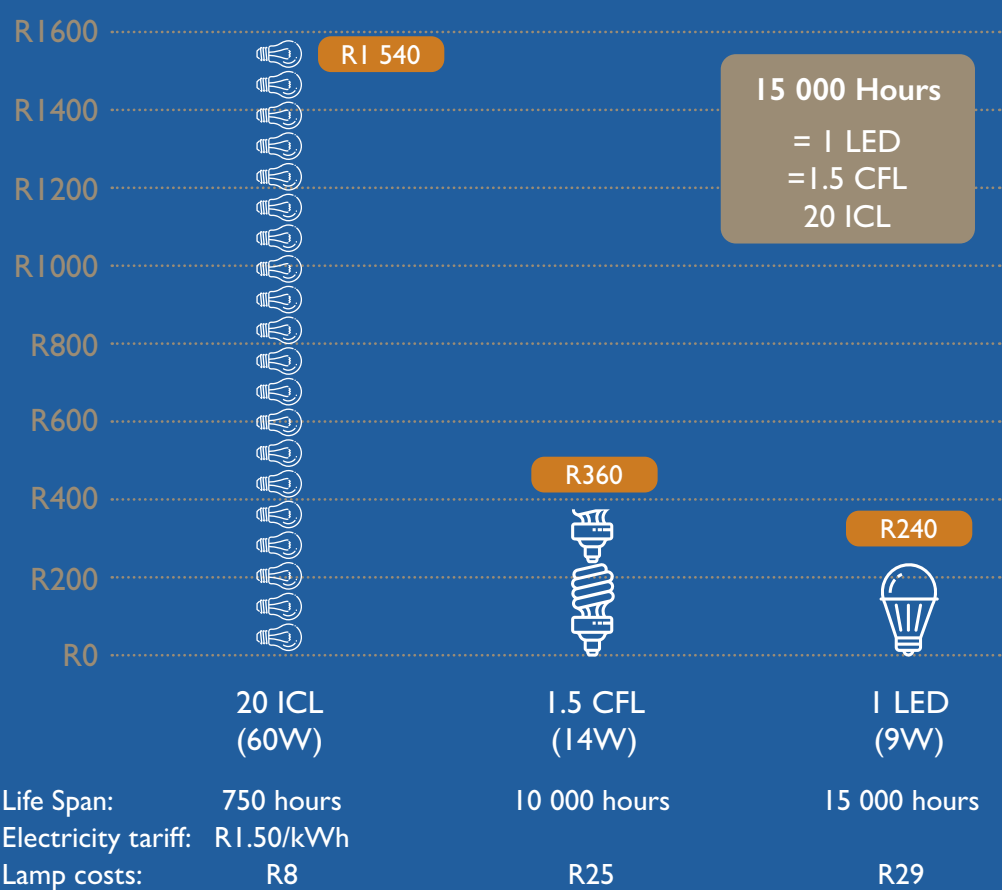
Being eco-friendly is becoming more and more important as time goes on, and swapping out your fixtures and bulbs for higher efficiency ones is a great way to get ahead. Efficient bulbs consume less power, which helps to reduce your home's carbon footprint.

Life cycle costs.

When comparing the life cycle costs of the various lamps that are available in the South African market, it shows that it pays to invest in an energy efficient option, which will result in a considerable lower electricity usage costs, see infographic below.

Lifetime Costs

Lamps available in the South African market.

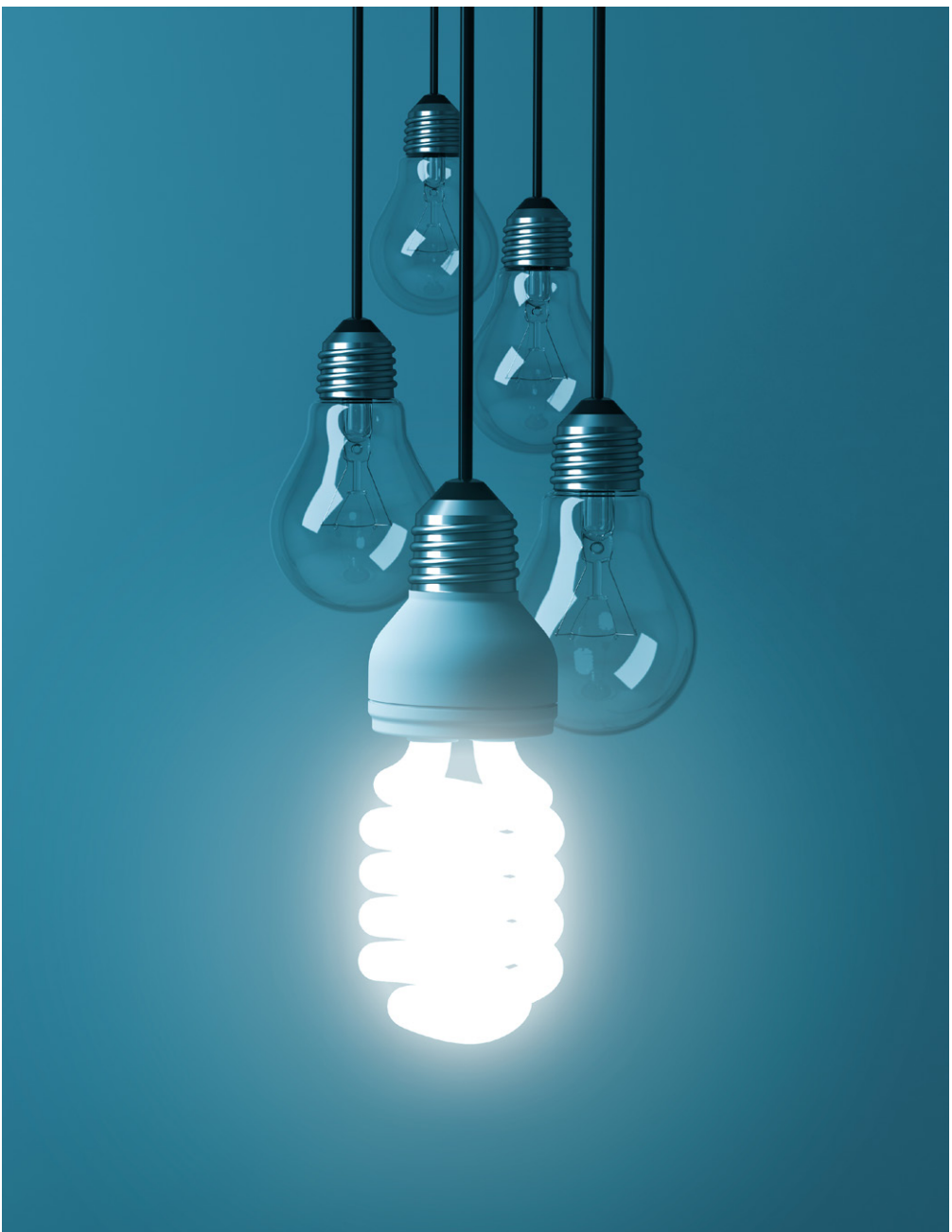


Don't let your electricity bill increase this summer. Understanding your options and changing your behaviour towards your home lighting options will help you use only what you need and help you save money.

Safe disposal tips for CFLs

The responsible way to keep your planet clean.

- Drop off old CFLs at participating retailers who offer a take-back service, e.g. Woolworths, Pick 'n Pay etc. Take care not to break the lamps.
- Drop off old CFLs at signposted electronic waste (eWaste) sites.
- Use municipal collection services for hazardous waste. These may be annual or more frequent – ask your local authority if these services are offered. Note: You can also dispose of batteries, oil-based paint and motor oil through these services.
- Always store used CFLs in a safe place, in a non-breakable container or plastic bag (to contain the lamp in the event of breakage) until they may be disposed of safely.
- Only dispose of CFLs with general household waste as a last resort. In this case, wrap the bulb in newspaper and place it in a plastic bag to reduce the risk of breakage and potential contamination of other recyclable waste and to avoid physical contact with yourself or with waste removal staff.



Remember to keep an eye out and respond to the real-time Power Alert messages on SABC, etv and DStv to help manage the strain of the electricity system. Together we can make a difference and keep the lights on.

Please visit our website for energy saving tips at www.eskom.co.za/residential

Together we can make a difference