

COOLmob

COOLtip



COOLmob Information Sheet on Lighting

Are you lighting up your home more than you need? Having energy efficient lighting in your home is often the easiest ways to reduce your energy bills. Every kWh saved from having efficient lighting will put money back in your pocket!



Lighting Types:

There is an array of lighting types on the market. The most common domestic down light is the tungsten halogen, **which is also the most inefficient and therefore expensive to run**. The approximate costs for the halogen lamps, assuming there are 10 fittings and are used 6 hours per day for 1 year are:



50W 240V GU10 tungsten halogen lamp
Cost/year \$200
865kg CO2/year



50W 12V MR16 tungsten halogen lamp
Cost/year \$230
951kg CO2/year

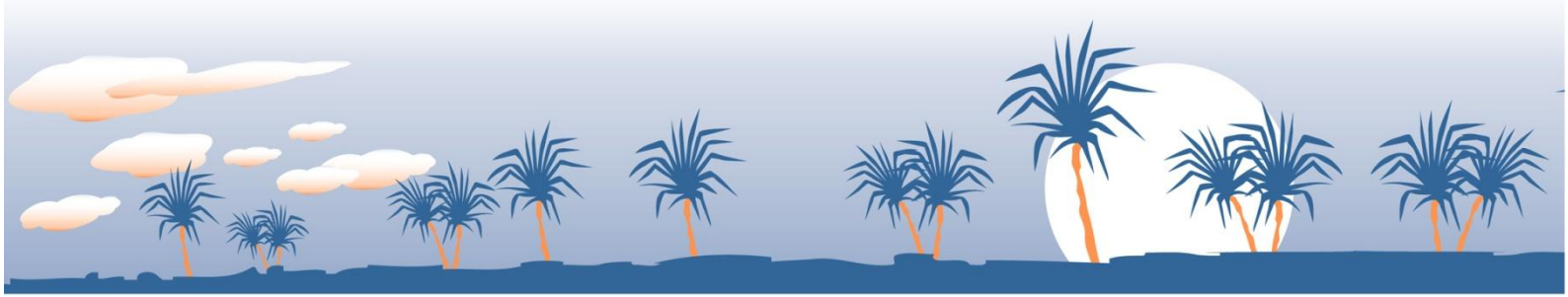
NB: Despite a lamp having a low voltage, does not mean it uses less power. A **better** option is to have lower wattage lights:



35W 240V GU10 tungsten halogen lamp
Cost/year \$140
605kg CO2/year



35W 12V MR16 tungsten halogen lamp
Cost/year \$160
692kg CO2/year



The **best** option is to replace the halogen lamps with LEDs or Compact Fluorescents (CFLs)



11W GU10 CFL lamp

Cost/year \$44

190kg CO2/year



5W 12V LED lamp

Cost/year \$20

86kg CO2/year

If your existing fitting is a GU10 (and not a pin fitting) then you don't need an electrician to remove the transformer and replace the lamp holder and fitting. You can simply put the CFL globe straight in and start cutting your power bills **immediately!** If you are unsure, take one globe out and take it to a lighting shop before buying replacement globes.

CFLs can also replace incandescent lights and will save up to 75% of power consumption.

Other Easy Savings:

- Turn the lights off every time you leave the room. It is a **common myth** that it takes more energy to turn on a fluorescent light than you save by turning off when not needed
- Don't over-light areas
- If you have more than one light on a switch, consider removing some of the globes to reduce the amount of power used per switch
- Optimise natural lighting where possible. Make sure rooms are well lit with the curtains open to let the light in



Longer Term Options:

- Install movement sensors to outside lighting
- Install a skylight to high use areas such as kitchen, bathroom or lounge rooms
- Re-wire lights that are on the same switch so only the lights that are needed come on
- Have an electrician remove the transformer and replace pin fittings and lamp holders with GU10 fitting that is compatible with more energy efficient lighting types.