















Table 2 Energy efficient lighting options

Existing lamp type	Uses	Energy efficient option	Energy saving/benefits	Application notes
 Tungsten light bulbs	General lighting, a common bulb for domestic applications	 Replace with compact fluorescent lamps (CFLs) in the same fitting	75% saving plus longer lamp life	General lighting – modern CFL replacements may also be acceptable for display lighting
 38mm (T12) fluorescent tubes in switch-start fittings	General lighting, commonly used in classrooms, corridors and office spaces	 Replace with equivalent 26mm (T8) triphosphor fluorescent tubes of lower wattage	8% saving plus longer lamp life	General lighting, but even better when used with modern fittings (see below)
 High-wattage filament lamps or tungsten halogen lamps as used in floodlights	For lighting large spaces, such as gymnasias, tennis courts, assembly halls, sportsfields, playgrounds	 Replace with metal halide or high wattage compact fluorescent lighting	65-75% saving plus longer lamp life	Floodlighting and some general lighting situations
 Mains voltage reflector lamps, filament spot and flood types	General lighting, often applicable to areas that need bright light and good colour rendering, such as workshops/art studios	 Replace with low-voltage tungsten halogen lighting or metal halide discharge lighting	30-80% saving for equivalent lighting performance	If low-voltage tungsten halogen spotlights are installed, there is further saving by using infrared (IRC) bulbs instead of the standard bulbs
 Fluorescent fittings with the old 2ft 40W, and 8ft 125W fluorescent lamps	General lighting, commonly used in classrooms, corridors, and office spaces	 Replace with efficient fittings using reflectors/louvers or efficient prismatic controllers with high-frequency electronic or low loss control gear	30-45% saving with much improved lighting quality. The use of high frequency electronic control gear eliminates flicker, hum and stroboscopic effect	General lighting
 Fluorescent fittings with opal diffusers or prismatic controllers which are permanently discoloured	General lighting, commonly used in classrooms, corridors, and office spaces	 Replace with new prismatic controllers or replace complete fittings as above	No reduction in energy consumption but increases the amount of light by between 30% and 60%	General lighting