

Energy Saving - Lighting

Lighting is a major energy user in all locations, using 20-30% of a pub's energy. Lighting technology has been revolutionised in the last few years with the introduction of quality LED lighting.

The following are major opportunity areas:

LED LIGHTING

Fact: In a traditional lamp (light bulb) only 5% of the energy is converted to usable light. Most energy is lost as heat.

Did you know: Changing interior lighting from traditional lamps to LED can save £2,000 per year. If your pub already uses energy saving lamps (compact fluorescent lamps) this saving is reduced to £500 - £1,000.

How does this apply to me: Check which lights are currently in use. LED lights are cool whereas traditional lamps and halogen spot lights will be very hot. Look at lamp packaging to see the wattage of the lights. LED lamps are typically 3-7 watts.

How do I make the saving: Most lamps can be directly replaced. An internet search of the lamp type along with "LED" will show if an equivalent lumen replacement exists. Also check the colour rating is suited to the location and if using a dimmer, check it is compatible with LED. LED lights are more expensive than traditional lamps but last 10 years or more with a typical payback of 3-4 years.

Prioritise where you spend your money by targeting lamps that are high wattage or on for long periods each day, for example lamps in hotel rooms will be used for fewer hours than the lights behind the bar – change these first.

BACK OF HOUSE LIGHTING

Fact: While LED lights are becoming increasingly popular, only 10% of pubs have fitted LED lighting in back of house areas.

Did you know: Back of house areas typically account for a significant element of a pub's lighting energy use. The lights here are often high wattage T8 fluorescent tubes that are on all day. Changing these lights can save £300 per year.

How does this apply to me: Go check the lights! T8 tubes usually have the wattage printed on the tube.

How do I make the saving: Most lights can be swapped directly for LEDs. If you have T8 fluorescent lighting then you may need an electrician to modify the fitting, check if you are not sure. Payback periods are 3-5 years dependant on if a direct swap can be made.



EXTERIOR LIGHTING AND DAYLIGHT SENSORS

Fact: Only 45% of pubs have exterior lighting controlled by daylight sensors and a timer switch.

Did you know: Exterior light units are often several hundred watts or more. LED replacements are still high wattage and can be 50-100 Watts.

Leaving exterior lights on for a few extra hours every day when not required could cost you £50-100 per year. Daylight sensors automatically switch lighting on when it gets dark and timers should be set to suitable operating hours.

How does this apply to me: Firstly look at the lights, if they are not LED then it is best to upgrade them. Some exterior LED lights come with built in daylight sensors. Look to see if there is a timer for the outside lights, is it set correctly?

How do I make the saving: If you have a timer then make sure it is set up correctly. Daylight sensors can be bought cheaply but will need to be installed by an electrician.

Savings can be £300 per year with payback typically 5 years.

