

# Energy Conservation

## Lighting replacement 2012 – 2013







It is estimated that Crown's lighting systems contribute to around 18% of the total electricity consumption for the complex. With almost 2 million lamps spread out over 6 buildings and more than 550,000 square metres of property, there are significant energy savings to be made by upgrading both the light fittings and the lighting controls.

LED technology has been advancing rapidly in the last few years and becoming more readily available. LED globes consume much less than conventional globes and approach 80% efficiency; which means 80% of the electrical energy is converted into light energy. While their initial cost is higher, cost savings occurs over time by taking advantage of their longevity.

Technological advancements in lighting controls allow us to introduce new and improved ways to increase the efficiency of our lighting systems via motion sensing and daylight harvesting.

Over the 2012-2013 financial year, Crown upgraded more than 12,000 lamps resulting in more than 3 million KWh in energy saving per year, equating to almost 3900 tonnes of CO<sub>2</sub>-e. That is enough energy to power 450 Victorian homes or equivalent to removing 1250 cars from the streets.

### Some of the project we have completed this year:

-  Maple room & Shò noodle bar – 700 halogen downlights replaced with 12W LEDs
-  Mahogany Room – 2000 downlights replaced with 10W LEDs
-  Teak Room – 600 halogen downlights replaced with 10W LEDs and 370 incandescent lamps replaced with 12W LEDs
-  Main Gaming Floor – 3000 halogen globes were replaced with 12W LEDs and the inefficient xenon strip lighting was replaced with almost a kilometre of LED strip.

