



# Bulk Changeover of Street Lighting Phase 2

## Upgrades to Street Lighting

The City of Whitehorse's street lights are about to shine more sustainably thanks to a switch to energy efficient globes.

There is a significant difference between the old and the new lights and the changeover will benefit the community as a whole. The lights will be changed over in between April 2017 and September 2017.

Each of the remaining existing 80-watt Mercury Vapour lights will be replaced with energy efficient LED luminaires including new PE cells, which are 82 per cent more energy efficient.

## What are the differences between the old lights and the new lights?

The table below details the differences.



Figure 1: Example of existing 80W

### **80W Mercury Vapour**

<b>Lamp Wattage</b>	80 Watts
<b>System Wattage</b>	96 Watts
<b>Description</b>	<p><i>Standard choice for street lighting for around 20 years, and now comprises the majority of Category P street lighting across Australia.</i></p> <p><i>They are becoming obsolete and being replaced by more energy efficient options.</i></p>

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Figure 2: Example of T5 light installed during earlier phase of changeover

## T5

<b>Lamp Wattage</b>	2x14 Watts
<b>System Wattage</b>	30 Watts
<b>Description</b>	<p>Installed as energy efficient option during an earlier phase of the same bulk changeover project for Whitehorse City Council.</p> <p>Significantly more efficient than Mercury Vapour lights, but have now been surpassed by LED technology.</p>



Figure 3: Example of new LED street light

## LED Street Light

<b>Lamp Wattage</b>	18 Watts
<b>System Wattage</b>	22 Watts
<b>Usage</b>	<p>Most energy efficient option for residential street lighting currently available, and becoming more efficient as technology improves.</p> <p>Becoming widely used as replacement option for 80W Mercury Vapour lights.</p> <p>Life span expectancy of 20 years.</p>