



LED's, Street Lighting and Energy Efficiency

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Street lighting in Australia

- 2.3m street lights
- 1% are decorative (non-standard)



LED lighting

- Visual displays (TVs, computer monitors)
- Automotive
- Traffic

- Area lighting



LED replacement – parks



LED replacement – parks

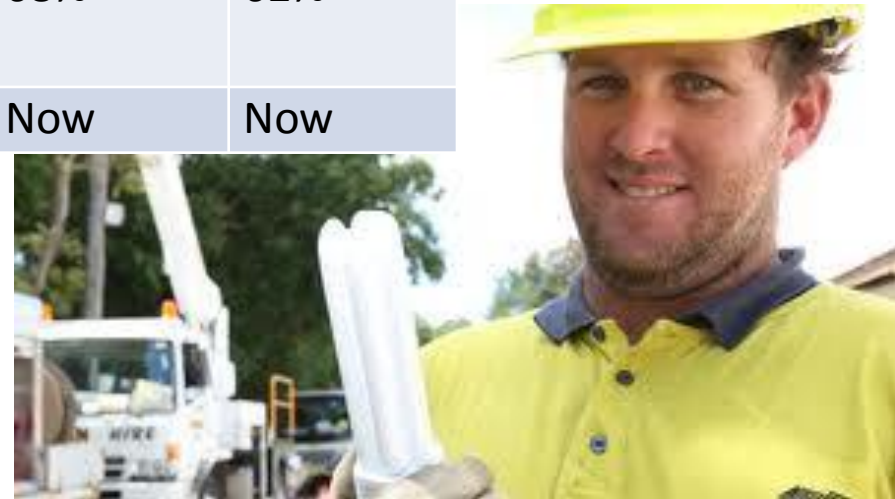
- 72% energy savings
- Saving \$110 pa in energy
- 2 tonnes of GHG emissions



LED replacement – street lights

(right now in Vic.)

	LED	2x14W T5	32W CFL
Rough Project Cost (2K lights)	\$1.2m	\$850,000	\$820,000
Energy usage	29W.....	30.5W	36.6W
Net present value of changeover	Similar (est)	Similar	Worse
Greenhouse reduction (from 80W MV)	70%	68%	62%
Approved for use	6 mnths?	Now	Now



Dealing with rapid technology change



Options



Large Scale Replacements in Australia

- Around 100,000 (of 2.3m) have been replaced
- Many assets are around 20 yrs old.
- Ready for a change

Replacing around 50,000 a year at the moment – this is accelerating

Paybacks are around 5-10 years (currently averaging 6 years, i.e. 15-20% ROI).

Average costs saving around \$200K per council p.a.



Bulk street light change process Local Government perspective

1. Business Case (may include mapping/design)
2. Funding
3. Prepare
4. Procure/Select
5. Manage
6. Finalise



At the same time - technical assessment of products is ongoing



Thankyou

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