Energy Saving Calculator

Please note: All calculations are estimates

PRO Electricians
The Energy Efficiency Experts

Low Voltage Halogens versus LED's

	Halogen Lamp	LED Lamp
Watts inc. ballast/transformer	55	15
Run time per day	12	12
Days per year	365	365
Electricity charge per kw/h (approx)	0.21	0.21
Total cost per year	50.59	13.80
SAVINGS PER YEAR/LAMP (APPROX)		**$36.79**

Savings Calculator

Number of LED Lamps	Savings Per Year
1	$36.79
10	$367.92
20	$735.84
50	$1,839.60
100	$3,679.20

Savings and Benefits Summary

1. **Power Savings** — **$36.79** = Minimum approx annual savings per year per lamp
2. **Lamp replacement savings** — LED lamp life based on 12 Hrs run = 8.02 years (Transformers are existing and not included)
   NOTE: Expected LED lamp life 25,000hrs
   Versus current halogen life of approx. 1-3000 hrs
3. **Maintenance reduction savings** — Significantly less time required to maintain lighting based on better lamp life outlined above.
4. **Improved air conditioner efficiency** — Heat from halogen lamps in ceiling space over 200 degrees C Vs 40 degress C for LED's.
5. **Fire hazard is significantly reduced** — Due to the reduced running temperature as per above.
6. **DIY or professionally installed** — You have the choice to purchase the lamps and install them yourself or we can do it for you.
7. **Colour variations of light output** — 3 colour variations ranging from brilliant white to yellow are available.
8. **LED lamps do not fade artworks etc**
9. **Reduced green house gas emissions**
10. **LED lamps are dimmable**
11. **Will work with most existing transformers**
12. **Small manipulation may be required for lamp to sit in existing gimble**

Further options:

Movement sensors can be added in selected rooms - lights will turn off if movement not detected in a zone after a pre-set time period.

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