

National Service Stations

PROJECT COMMENCED
JUNE 2012

NuGreen Solutions was engaged by a major Service Station chain to audit 4 of their Victorian stations, to identify a retrofit solution to save on emissions and energy costs for the individual facilities. After surveying the sites, measuring the current lighting levels and analyzing existing light fittings we were able to compile a detailed report outlining the potential cost saving in upgrading to LED technology.

THE SOLUTION

The Program recommendation included the replacement of 654 fittings and estimates the following savings across 4 sites.

| | |
|---------------------|----------------------------------|
| 40% TO 50% | Saving on current lighting spend |
| UP TO \$640K | Saving over 10 years |
| \$5,000* | Monthly rental payment |
| 10 YEAR | Maintenance free period |

*Based on a 5 year rental period.

THE BENEFITS

- Reduced electricity bills
- Reduced CO₂ emissions
- Zero maintenance costs for the next 10 years
- Improved lighting environment
- No capital outlay required
- Improvement of the site safety
- Use of the latest technology
- Future proof around rising energy cost

| PROJECT OUTLINE | STATION 1 | STATION 2 | STATION 3 | STATION 4 |
|---|-----------------|------------------|-----------------|-----------------|
| NUMBER OF FITTINGS TO BE REPLACED | 135 | 134 | 237 | 148 |
| PROJECTED SAVINGS ON CURRENT LIGHTING SPEND | 30% to 40% | 45% to 55% | 40% to 50% | 40% to 50% |
| PROJECTED SAVINGS ON OVER 10 YEARS | \$80k to \$100k | \$140k to \$150k | \$200 to \$210k | \$155 to \$165k |
| ONSITE MAINTENANCE FREE PERIOD | 10 years | 10 years | 10 years | 10 years |
| TONNES OD CO₂ SAVED OVER 10 YEARS | 168 | 362 | 460 | 373 |

| ELECTRICITY AND MAINTENANCE COST SUMMARY | | | | | | | | | | |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| YEARS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| CURRENT COST | \$63k | \$72k | \$83k | \$93k | \$103k | \$113k | \$123k | \$132k | \$142k | \$152k |
| NUGREEN COST | \$25k | \$30k | \$34k | \$39k | \$44k | \$48k | \$53k | \$57 | \$62k | \$67k |
| SAVINGS | \$38k | \$43k | \$49k | \$54k | \$59k | \$65k | \$70k | \$75k | \$80k | \$86k |

NuGreen Program
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FORECAST