

+50% Saving



EnerJon

Energy Efficiency

Lighting Efficiency Improvement

A multi-national organisation wanted to reduce energy consumption, one of the projects identified and specified by Enerjon was the installation of high efficiency LED lighting to replace the existing high frequency fluorescent lighting used in the main production hall. The project saving achieved paid for the total project cost in under 2 years. The project involved:-

- **Full up front costs / saving analysis and summary report.**
- **The generation of area lighting requirement specification.**
- **Replacement of the 2,396 tubes with zero impact on production operation.**



Area after LED lighting installtion

The Results

The replacement with modern high efficiency, long life 18W LED tubes achieved the following area lighting improvements:-

- **Over 50% reduction in area lighting electrical power, in this case reducing installed lighting power load from over 87KWH to 43KWH.**
- **Achieved annual power savings to the site of 301,507 KWH, reduced annual carbon emissions by 129 tonnes.**
- **Extended lamp service life by over 100% to nearly 50,000 hrs. Massively reducing annual cost & time required for re-lamping and ballast replacements.**
- **Instant switching is now also possible as the LEDs require zero warm up time, adding to the savings when the lights are zoned in future projects.**
- **More uniform light distribution, fully achieving required lux level.**
- **Extended the time emergency light fittings can remain on for in the event of power failure.**
- **Removed the largest source of mercury contaminated fluorescent tubes from the hazardous waste stream.**

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