Case Study
LED Lighting Replacement

Job Title: **LED Lighting Replacement Project**
Company: **Medical Device Company**
Location: **South East Ireland**
Duration: **3 Months**
Objectives: **Achieving Sustainability Targets**

Our client, a leading medical device manufacturer commissioned Prochem Engineering to assist them in improving their environmental footprint – one of their sustainability targets for 2020. The goal being focussed upon was the reduction in energy / electricity demand at the site.

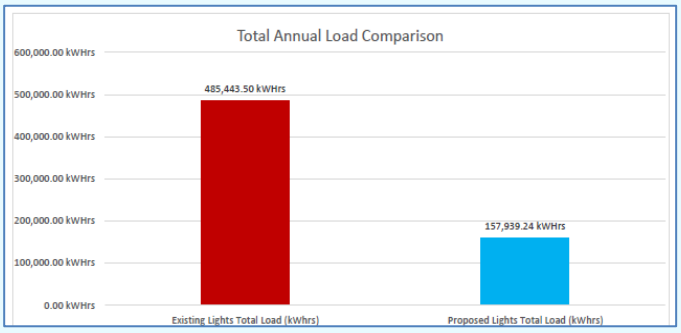
Having assessed the main energy consumers on the site – it was evident that a key opportunity for reduction was in respect to the lighting infrastructure. In excess of 1000 light fittings existed at the site - 85% of which were high energy consumption units – traditional fluorescent and halogen type fittings.

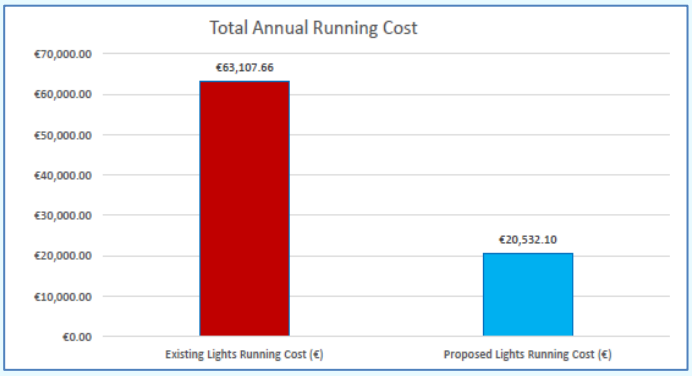
Prochem Engineering's scope was to provide a lighting design that was compliant with end user requirements – maintaining and improving the existing lux levels, replacing the high energy fittings with lower energy and longer life LED type fittings.

The following key steps were completed:

- Thorough room by room analysis assessing lighting requirements, options for smart controls and identifying opportunities for motion / daylight harvesting functionality – whilst adhering to international guidance (CIBSE etc) as appropriate
- Development of detailed lighting calculations and layout plans using Dialux simulation software in consultation with the client
- Selection of lighting units for all areas with particular attention on Cleanrooms to ensure the lighting lux, colour and glare levels were achieved at desk level for product assembly and visual inspection.
- Comparative analysis of the updated energy profile versus the existing infrastructure, highlighting energy and CO^2 reductions being achieved.

Having completed the design, Prochem was then asked to supply, install and commission the new system and complete the role of PSCS. The installation and commissioning works were completed over a 4 week period, at all times ensuring production schedules were not compromised.





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