

Project knowledge – Lighting controls by University of Sunderland



BEFORE:

Library lights on 24/7 controlled from obsolete ECS lighting system, bookcases lights supplied from under floor bus bars normally on 24/7.

AFTER:

310 light fittings are fitted with individual XOR lighting controls that switch off after 10 minutes if the PIR hasn't detected any movement.



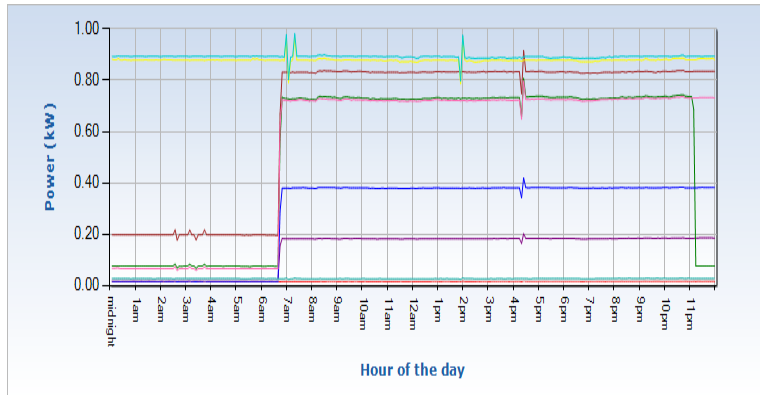
XOR lighting controls
Fitted to individual
light fittings



[Project completion – December 2011](#)

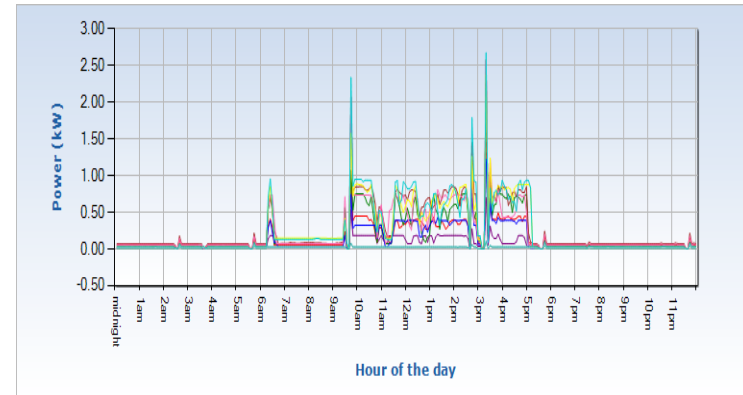
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Supporting Comments:



BEFORE CONTROLS ARE FITTED

10th October lighting used 96 kWhs of electricity and emitted 52.25 kgCO₂



AFTER CONTROLS ARE FITTED

21st December lighting used 38 kWhs of electricity and emitted 21.14 kgCO₂

The scheme should save 47,553 kWhs of electricity per year and 25.87 tonnes of CO₂ with a payback of 3.5 years. The monitoring system is EDDIE (Electronic Digital Display of Energy). The savings, as seen in the graphs above, amount to a 60% saving in power. The cost of the installation worked out at £58 per fitting plus VAT.

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