BeGreen
PREVENTING WASTE & SAVING MONEY

Energy Lighting

Cost Savings.....€15,000 / Annum
Investment.....€25,000
Payback.....18 Months

Environmental Benefits:
CO_2 reduced: 10.5 Tonnes p.a.

Lighting Upgrade Saves CIT Student Centre €15,000 Per Annum

CORK INSTITUTE OF TECHNOLOGY – CO.CORK

Description of Site

Cork Institute of Technology (CIT) is one of the largest third-level institutes in Ireland, and caters for both full and part-time study, as well as many evening and weekend courses. CIT has expanded rapidly over recent years, and now encompasses a mix of new and older buildings. The Department of Tourism & Hospitality Studies at CIT is leading the way forward with sustainability at the institute, and was awarded the Green Hospitality Gold Award in 2010 and 2011.

Project Description

At CIT, the Nexus building represents a hub of student activity. It is a gorgeous red brick building with high domed ceilings and girders criss-crossing the ceiling. The previous 44 units of 400W metal halide were using too much energy and required significant maintenance. These lights were replaced with 22 x 90W and 22 x 30W LED fittings.

The Results

- Payback in 18 months
- Saving over 51,700 kWh per annum
- Sustainable centrepiece lighting to enhance the aesthetics of the building
- Saving over €15,000 in electricity and maintenance bills per annum

Energy consumption from the 44 x 400W metal halide lights was reduced by >80% by using the 22 x 90W LEDs and 22 x 30W LEDs (based on 3456 energy hours per year). Cost savings of €15,000 are reported, due to the reduced energy requirements, as well as reductions in maintenance and scaffolding requirements for the old fittings.

Water Consumption	2010	2011
Energy consumption (kWh/yr)	60,825	9,122
% Reduction		>80%
Cost savings/yr		€15,000
Investment		€25,000
Payback Time		18 Months

Source Details:
Cleaner Greener Production Programme www.cleanerproduction.ie

GreenBusiness