

Eco active actions

Energy saving case study



Focus

Energy - LED Lighting

Member

Ross-Gower Associates

The Business

- > Civil and Structural Engineering Consultants
- > Single floor St Helier office
- > 14 employees



Supply Chain

Lumilite Ltd



Action in a nutshell:



- > Installation of **LED lighting**
- > **£700** per year saving
- > **22%** reduction in energy use

• Lighting typically accounts for **15%** of an office's energy consumption

• LED lighting can be over **80%** more efficient than traditional lighting



We previously had headache-inducing fluorescent tubes... the LEDs are now in a more effective position and create a much better level and type of light ”



Basics

Eco active first supported RGA to undertake a walk around assessment of their office. This provided some quick wins for saving energy – basic things such as encouraging staff to switch off PCs and lights. An Owl Energy monitor was also installed (available to loan for free from eco active) which was placed in reception. The monitor helped staff to understand and keep an eye on energy use as well as show customers that environmental considerations were important to the business.

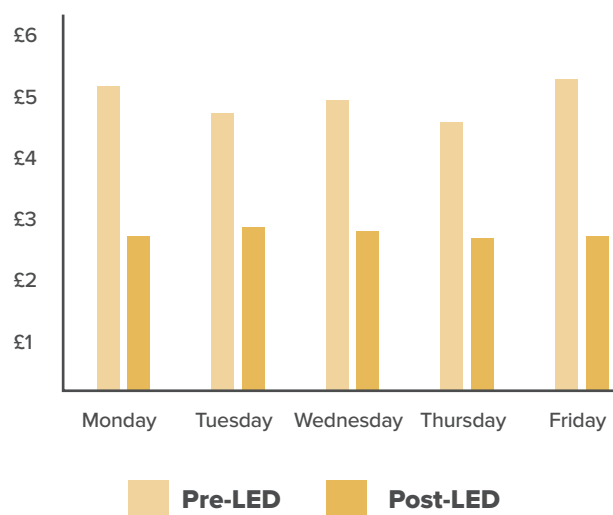
For more energy saving inspiration RGA attended the eco active Lunch & Learn on energy in September 2015. This included a presentation on LED lighting by Lumilite. Having been impressed by the local case studies discussed RGA requested a quotation to review and replace their existing lighting. Terms were agreed and the installation was scheduled for a Saturday in order that there was minimal disruption to the office operation.

Impact

The installation immediately delivered a 22% electricity bill saving. The saving of £700+ per year is similar to RGA's typical summer quarter electricity bill. The Owl Energy monitors provided daily records of energy use which clearly demonstrate the reduction in electricity spend before and after the install.

Lighting generally accounts for 15% of an office's energy consumption. By switching to LED you could cut this portion of your bill by as much as 80% compared to traditional lighting.

Daily electricity spend before & after LED install



Ross-Gower Associates view

“Our energy usage reduced instantly and as a bonus there was no upfront cost - the monthly payments are tailor-made to suit the savings in our electricity bill. One of the many other benefits of the LED panels is that they last much longer than traditional bulbs so maintenance will be minimal further reducing costs and disruption.

We previously had approximately 40 light fittings, each with 4 headache-inducing fluorescent tubes. Although we still have a similar number of fittings, they are now in a more effective position and create a much better level and type of light. As well as saving energy and achieving our eco active credentials the project has also resulted in a significantly better working environment.”