

Case Study

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Case Study: Tea Seller (LED Lighting Refit)

The Challenge

The client, an international seller of tea, requested the support of Catalyst in the changeover of store lighting to energy efficient LED lamps and fittings. The basis for the specific store was highlighted as part of an energy efficiency audit that confirmed that the wiring for the current lighting scheme at this store was a health and safety issue. The audit needed to show that by switching to energy efficient lamps at this store the savings in energy would justify the investment and potentially could be replicated across other stores with a similar return.

The Solution

Catalyst was already supporting the client in looking at profiling the energy and identifying savings across their portfolio of stores. As a result, having visited the store to assess and survey the issue, a proposal was developed to replace the lighting and rectify the electrical issues at the same time.

A payback calculation was developed based purely on a changeover of lighting to LED's. During the survey it was also noted that there was a lack of light in the storeroom due to the poor luminance of the existing lamps and was included in the works. The calculation did not take into account the potential increase in sales or staff and customer wellbeing as a result of brighter displays and shopping experience

The Outcome

A new lighting system was installed, replacing the previous standard fittings with energy efficient LED equivalents. This reduced the electrical load by over 83%. Along with the electrical issues being rectified, a further issue was also resolved relating to the light switch which had carbonised over time, which was also replaced as part of the works.

The completed work will result in a return on investment of above 400% over a ten year period. In addition to the savings generated and health and safety issues resolved, the staff also noted the significant aesthetic improvement the new LED lighting had on the appearance of the store.



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