

## Case Study

# Kelmscott School

- **Customer:** London Borough of Waltham Forest
- **Technology:** LED lighting
- **Funding:** Salix Finance – Salix Energy Efficiency Loan Scheme (SEELS)
- **Outcomes:**
  - Improved illumination
  - £12.6k annual energy savings
  - Return on investment of 7.9 years

**Energys Group  
SALIX funded  
LED upgrade  
delivers results  
for the London  
Borough of  
Waltham  
Forest Council  
at Kelmscott  
School.**



## PROJECT BACKGROUND

The London Borough of Waltham Forest is delighted with improvements to the lighting at Kelmscott School, where a successful upgrade to LED technology is significantly reducing annual running costs.

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Kelmscott School is a secondary school with more than 900 students based in Walthamstow, East London.

Much of the school dates from the 1970s and although it underwent a significant refurbishment as part of the Building Schools for the Future programme, that was more than a decade ago. There has been a transformation in lighting technology since that time and the school staff

were reporting some challenges with the quality of light provided by the existing infrastructure.

Andras Kis, Energy Manager at the London Borough of Waltham Forest (LBWF), explains: "We are always looking to reduce running costs across the local authority estate and installing LED lighting at Kelmscott would assist with this. Maintenance of the lighting in the older part of the school was

particularly problematic. We knew that Salix Funding would be available for this project and as Energys Group had undertaken work for us elsewhere, we approached them for assistance."

Siobhan Hosein, Director of Finance and Administration at Kelmscott School confirms: "It gave us confidence in this project to know that Energys Group had a track record of delivering projects elsewhere within LBWF."

## **SALIX FINANCE SEELS FUNDING**

Salix Finance provides 100% interest-free capital funding to the public sector to improve its energy efficiency. The Salix Energy Efficiency Loan Scheme (SEELS) provides a mechanism for schools to do this. A key requirement of the funding is for evidence to be provided that the project will pay for itself from energy savings within an 8 year period and that the cost of Carbon Dioxide will be less than £200 per tonne over the lifetime of the project.

Energys Group Business Development Manager Raj Gunasekaran was able to demonstrate to the team at LBWF that the project would pay for itself in just under 8 years.

## **THE SOLUTION**

A complete suite of internal and external LED lighting and supporting technologies from Energys Group's own extensive New Vision LED lighting range was provided within this upgrade. This included: LED panels, LED





## RESULTS AND OUTCOME

Andras Kis notes that the improved light quality was evident immediately and says: "In a number of areas the lights need to be on throughout the day every day so we can very quickly see the impact of the new lighting on both energy bills and maintenance time. We are very pleased indeed that we are on track for the indicative cost savings to be realised."

Siobhan Hosein from Kelmscott School was equally impressed: "We were pleased with the speed of implementation of this project and delighted that we are already seeing savings on our energy bills."

In addition to the energy savings, Energys Group LED products also completely eliminate flicker and glare and so significantly reduce reported eye strain and headaches. As Raj Gunasekaran says: "The benefits of installing LED lighting in classrooms really can't be overstated and the impact on student wellbeing is immediate."

Energys Group's confidence in the reliability of its products is such that it offers a five-year guarantee and in the unlikely event of any failures within that time its engineers will promptly visit site and provide replacements.

Waltham Forest Council also anticipates an improvement in Kelmscott School's Display Energy Certificate rating as a result of this project.



downlights, LED Triproof lights, LED Wall lights and LED POLO suspended Main Hall lights within the buildings and LED flood lights and IP65 Waterproof LED wall lights to illuminate the exterior.

Work took place to suit the school's requirements, with the main part of the work being undertaken over the October 2018 half-term holiday. The Energys Group team then worked over evenings and weekends to minimise disruption and completed work in just a few weeks.

Andras Kis was particularly impressed by the flexible approach adopted by the Energys team whilst on site. As he says: "It can be difficult to foresee every possible requirement at the planning stage and they were so responsive to additional requests even after work had started. Their response to our request, after project commencement, to make further changes to improve lighting quality in one of the small kitchen areas really was first class."



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### PROJECT PAYBACKS

The project cost £101K and is estimated to achieve annual savings in the region of £12.6k.

Return on investment is predicted to be just under eight years, with a projected annual 89,480 kWh saving.

Raj Gunasekaran concludes: "Local Authority Energy Managers are under great pressure to provide year on year cost savings. Energys Group is here to help make the switch to LED lighting a straightforward step in that direction."



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