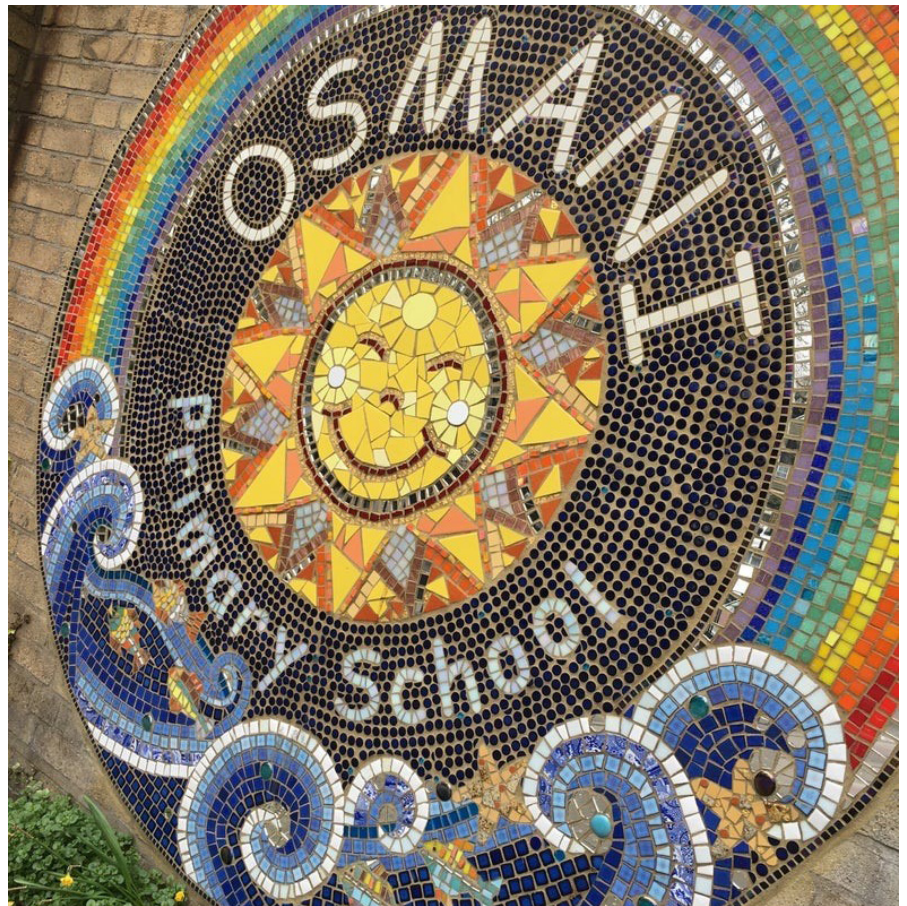


Case Study

Osmani Primary School

- **Customer:** Osmani Primary School, London Borough of Tower Hamlets
- **Technology:** LED lighting
- **Funding:** London Borough of Tower Hamlets' Carbon Offset Fund
- **Outcomes:**
 - £7.7k annual energy savings
 - Return on investment of 4.2 years
 - Improved illumination

**Energys Group
LED upgrade set
to deliver £7.7K
annual savings
for Osmani
Primary School
in the London
Borough of
Tower Hamlets.**



Case Study

Osmani Primary School



PROJECT BACKGROUND

Osmani Primary School is expecting to significantly reduce its annual energy consumption following an upgrade to LED lighting financed by the London Borough of Tower Hamlets' Carbon Offset Fund.

Osmani Primary School in the Whitechapel area of the London Borough of Tower Hamlets was established in 1986 although the main building dates from Victorian times. The School has been rated as a Good school by OFSTED and, with 411 pupils at the time of writing, is a larger than average primary school.

The team at Osmani Primary was reasonably content with the quality of its existing lighting - lighting maintenance

wasn't an issue for them either, as they can call on their PFI contract for standard maintenance work. However, like everyone, the school was keen to do what it could to reduce energy costs – the management team was aware that the upfront investment costs for a retrofit to LED would not be covered by the PFI contract and would therefore be prohibitive for the school to consider.

This is where the Tower Hamlets Carbon Offset Fund comes in.



TOWER HAMLETS CARBON OFFSET FUND

The London Borough of Tower Hamlets supports schools in the borough to improve their energy efficiency and reduce their carbon emissions through its Carbon Offset Fund. This funding source provides the upfront capital for LED replacement projects, thereby allowing the school to repay the cost through the energy savings realised during the payback period.

Importantly, the Authority also provides a forum where Business Managers from all the schools within the Borough can meet. Runa Begum, Business Manager at Osmani Primary School,

is clear about the value of this forum as a place where ideas and information can be shared.

The team at Osmani Primary worked with Tower Hamlets Energy Managers to develop their case for financial support from the borough's Carbon Offset Fund for their proposed LED Lighting upgrade. The process requires each school to obtain three quotes from potential providers and Energys Group was one of the three invited to submit a proposal.

As Runa Begum says; "Energys Group offered a comprehensive proposal at a highly competitive price and, importantly, they came highly recommended by other business managers within Tower Hamlets.

It's important to us to know that we are working with an organisation that others rate."

THE SOLUTION

This solution offered by Energys Group proposed the installation of a standard LED Lighting upgrade across entire school, including outdoor lights and upgrades to LED of all existing emergency lights & standalone units. The list of installed lighting types includes: IP Rated LED Batten Fixtures, LED Panels, LED Wall lights, LED Downlight, Outdoor IP65 LED Wall light, Flood lights and Emergency Lighting.

Energys Group advised that the major part of the project would be completed over the course of a week but that they may need to undertake some out of hours work in the following week. To minimise disruption to teaching schedules, the work was scheduled to take place during the October 2019 half term break. As predicted, the majority of the work was completed during that week but there was some evening work in the week following. Osmani Primary was able to offer extended access to the site from 6am until 10pm and this was very useful to the Energys Group project team.



Case Study

Osmani Primary School

RESULTS AND OUTCOME

Runa Begum was very pleased with the delivery phase of this project. "The installation went very smoothly indeed. I am now confidently looking forward to measuring our energy savings over the first 12 months of use, to ensure they are in line with the forecasts provided."

Raj Gunasekaran, Business Development Manager at Energys Group says; "We are delighted to install our energy efficient, modern LED technology at Osmani Primary School. We know that our LED lighting will not only help the school to reduce energy costs, it has positive impacts on student wellbeing and learning outcomes too by reducing eyestrain and improving alertness and cognition."

PROJECT PAYBACKS

The project cost £35K and is estimated to achieve annual savings in the region of £7.7k, with a return on investment of 4.2 years

The estimated carbon reduction is 21.7 tonnes of CO₂/pa with a lifetime carbon savings 325.68 tonnes (calculated over 20 years)



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