



RENEWABLE
SOLUTIONS
Lighting

Better lighting for better learning

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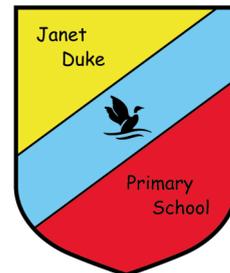
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Case Study

Janet Duke Primary School



Location: Hornchurch, Essex

Pupils: 660

Headteacher's name: Harriet Phelps-Knights

Consultant: Matt Savill

School's Background

We are a happy and successful school, with clear expectations of high standards and good behaviour. Our aim is to ensure that all children are happy and enjoy school whilst progressing with their education. Children are encouraged to achieve their full potential in all areas of the curriculum and school life. We want to promote life-long learning where children can be happy, confident, independent and fulfilled.

School's Previous Lighting Situation

Janet Duke Primary School was suffering from poor, flickering and outdated fluorescent lighting that was producing insufficient output. Frequent lamp failures created inadequately lit classrooms as well as high maintenance costs. The high wattage of the old lamps and the fact that many were left on unnecessarily made them very costly to run. In addition it was felt that lighting flicker, due to the lamps age, was distracting to both pupils and teachers.



Funding Solution

The School funded the scheme using The Educational Social Enterprise Fund for LED Lighting. The 'Social Enterprise Fund' enables schools to install LED Lighting, lower energy costs and reduce their carbon footprint without having to find the upfront capital to purchase the equipment. By simply paying an annual lease amount the scheme generates cash surpluses for the school from day one to be reinvested in educating disadvantaged children. There are no capital costs to the school and the lease repayments are made from the savings, there will always be a surplus left for the school after the lease payments are covered. The fund is DFE (Department for Education) approved as an operating lease, an appropriate funding method for schools and accredited by Department of Business, Innovation and Skills (BIS) to offer low cost finance





End Result

With over 616 LED lamps installed, Janet Duke Primary School have now improved classroom lighting, reduced energy consumption by 69% or £10,403 per year and requires zero hours of maintenance time changing lamps.

Project Facts	
Lighting Retrofit Efficiency Upgrade	
Energy & Maintenance Cost Savings	£10,403
Power Savings (kW/h)	80852
reduction in CO2 emissions (tonne)	29
Revenue generated from Energy savings over the project lifespan	£332,634
Applied Technologies	
LED Lamps, Presence / absence / Lux level detection	
Numbers reflect annual project savings based on prior energy consumption, electric rates and specific usage hours. Savings for individual schools may vary	



“RS Lighting offered us first class service with our LED Lighting, their staff were professional and knowledgeable, disruption was minimal and the team showed a great understanding of the needs the school required and how to best meet them. I would highly recommend RS Lighting it was great to work with them on our new LED Lighting project”.

Kay Wilk - Business Manager

