



Renewable
Solutions Lighting

Better Lighting > Better Learning

Office: Renewable Solutions Lighting Ltd, Suite 2, St Frances House, Olding Road, Bury St Edmunds, IP33 3TA.

Tel: 01284 544 727

Email: info@rslighting.co.uk

Website: www.rslighting.co.uk



Case Study

St Georges School

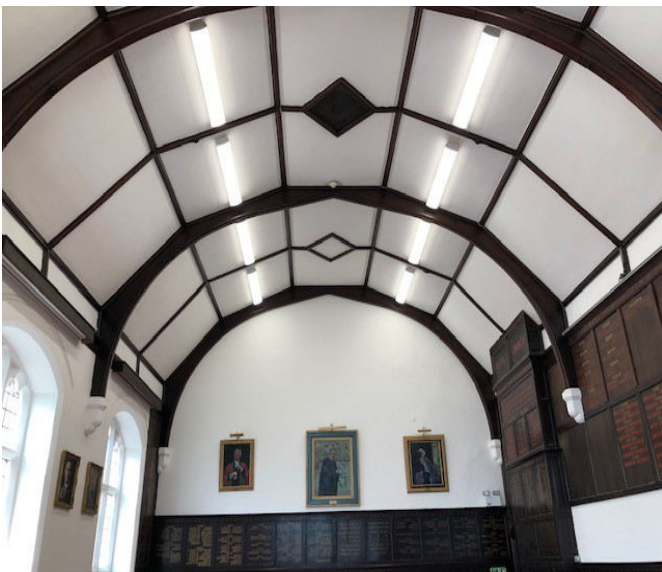
Location: Sun Lane, Harpenden, Hertfordshire, AL5 4TD

Headteacher: Miss Helen Barton

Consultant: Matt Savill

School Background: Our School is a unique and special place. Founded on a Christian ethos; dynamic and exciting to be part of; friendly, caring, and challenging in equal part, it is an excellent environment to receive what we consider to be an outstanding holistic education.

Our students and staff are loyal, proud, and purposeful, our motto, "Aim Higher", challenging all of us to be the best we can be. We have history, tradition, and heritage, and a genuine determination to know and care for everyone, whether you are a day student or part of our diverse and inclusive boarding community.



School's Previous Lighting Situation

St Georges School was fitted with outdated fluorescent strip lighting that was producing insufficient output and frequently needed replacing. Frequent lamp failures created inadequately lit classrooms as well as high maintenance costs which the school had to fund. The school had many fluorescent tubes that they could no longer get, which meant a lot of lights out, which over time was effecting the working and learning environment.

Funding

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 up-front 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.



End Result

St Georges School had 2779 old fluorescent lights replaced with brighter more natural LEDS. This has helped improve the schools classroom learning environment and helped the school benefit from reduced energy consumption and requires zero hours of maintenance time changing lamps. These savings can be reinvested into the school.

	Existing	Proposed
Total no. Light Fittings	2779	2804
Total Annual Energy Usage (kWh)	605,001	190,408
Electricity Cost per kWh (inc. charges)	£0.1071	£0.1071
Existing Annual Lighting Energy Cost	£64,796	£20,393
Total Annual Electricity Cost	£99,195	£54,792
Operating Time (hours per year)	2,730.00	2,730.00
CO2 Carbon Saving(tonnes)	309	97

“the Installation was spread out of a few months from Feb to August, the contractors together with Matt and Karl made the process non-stressful as they took complete control, and the School was kept to a minimal disruption, the company worked around our times for lessons and boarding. I am very happy with the installation and how the company worked with other contractors over the summer with the refurbishment of the boarding houses. I would highly recommend this company to any future school proposing to have the changeover to LED.”

Steve Harmer - Operations & Facilities Manager

