



ESL Drive Down Energy Consumption Dramatically For Historic School

THE BRIEF:

Ripley St Thomas Academy is a large historic secondary school overlooking the City of Lancaster and the Lake District. With approximately 1750 pupils the school dates back over 150 years. It has a strong and dedicated team that provides the children with the best opportunities possible to achieve their full potential.

The school were keen to look at ways to drive down energy consumption and invited ESL to provide an energy efficient lighting solution that could be implemented throughout the whole school. With a number of buildings of various ages the existing lighting varied considerably, this offered a considerable challenge to ESL to provide low energy LED alternatives at the correct colour temperature and at an equal consistency through-out which is essential for a good learning environment.

The existing lighting consumed approximately 33560kW of power per year with the lights being left on 10 hours per day during term time. The existing fittings were difficult to maintain and so ongoing maintenance costs were found to be high.

THE SOLUTION:

Having completed many lighting projects for schools over the years ESL had the experience to produce a detailed solution to achieve the schools desired objectives.

Most of the fluorescent tubes were replaced with either FLUX LED panels or FLUX LED OVARA tubes to provide a high, yet instant and equal output.

QUICK FACTS:

67% Annual Energy Saving,
Payback Period 30 Months
£25,709 Cost Saving Per
Annum

*The ESL team were
extremely
professional and we
would highly
recommend their
stress free services*

Sue Edwards
Director of Business & Finance

FLUX LED lamps offer a lifespan of approximately 50,000 hours compared to 8,000 from a traditional fluorescent lamp and with the ESL 5 year warranty the school were safe in the knowledge that should a light fail ESL would provide a free of charge replacement.

THE RESULT:

After completing the project the end result meant that the school reduced their yearly consumption from **£36,579** to **£12,449** per annum. Carbon emissions were also reduced from **199T** to **68T** with a total reduction **67%** in energy costs.

The school were delighted with the end result and level of service the ESL team provided. The installation of the FLUX LED lamps and fittings meant the school achieved their objective of substantially reducing its energy costs and carbon footprint while also reducing maintenance expenditure.

With improved flicker free natural light levels it was found the school benefitted from a more uplifting brighter environment for both staff and pupils.



“ Being a large school, our energy costs were quite significant so we were keen to look at ways to reduce costs. We carried out some research and LED lighting was considered the most cost-effective solution. After contacting a number of companies and speaking to other schools, ESL was judged to be the best option in terms of value for money, quality of products and deliverability. Since the installation was completed we have noticed a substantial reduction in energy and maintenance, while also improving light output across the school.

Sue Edwards
Director of Business & Finance

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