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LED Lighting for Schools, Colleges and Universities

Better lighting for better learning



RENEWABLE
SOLUTIONS
Lighting



“ At Renewable Solutions Lighting we believe that to nurture future generations, there are few things more important than creating the right kind of learning environment – and lighting is a major part of this. Adding sustainability into the mix saves carbon, adds learning potential and safeguards our future planet. ”

We design, install, maintain and fund LED lighting projects into the Education sector

We only work with schools

Because schools are at the heart of everything we do, we always put your needs first.

Our approach is totally consultative, informative and passive.

Committed to cutting carbon

And generating additional income for the schools we work with and helping disadvantaged children.



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Renewable Solutions Lighting Ltd
Part of Renewable Solutions Finance Group (established in 1993)



“ Reduce heat emissions
and reduce your
carbon footprint with
LED lighting ”

Why LED?

By recreating the dynamics of natural daylight in the classroom, LED lighting provides an outstanding learning environment that engages and stimulates

You can give your pupils the very best start in school with light that enhances learning, improves results and makes everyone feel better.

Efficiency

LEDs are extremely energy efficient and consume up to 80% less than incandescent bulbs. Because LEDs use only a fraction of the energy of an incandescent light bulb there is a dramatic decrease in energy costs.

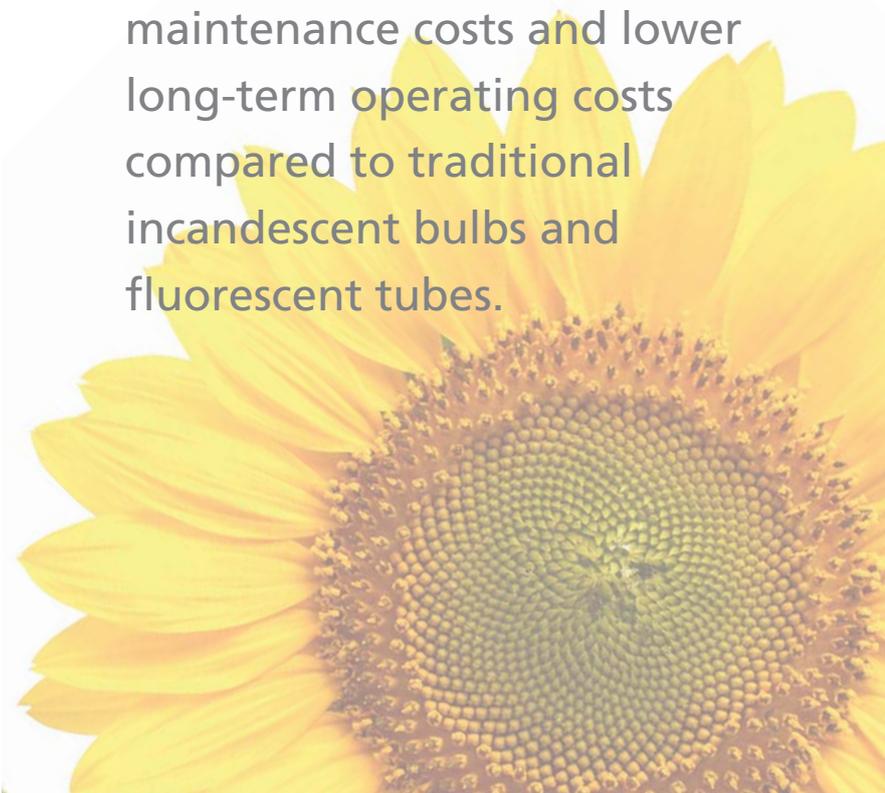
Cut the schools Co₂ output and reliance on fossils fuels

Consume up to 80% less electricity and, therefore, less carbon pollution; less waste from longer-life bulbs.

Longevity

LEDs have a lifespan of up to 50,000 hours compared to 10,000 hours for fluorescent. LED lighting will last over 20 years in a school before needing replacement.

Long lifespan of LEDs will dramatically reduce maintenance costs and lower long-term operating costs compared to traditional incandescent bulbs and fluorescent tubes.



Our goals...

1

Cut fuel bills and create additional revenue for your school

2

Create a better learning and teaching environment

3

Cut your schools Co₂ output and reliance on fossils fuels

4

Allow your school to refit a whole school with modern lights one single project with no capital outlay

5

Help disadvantaged children

Less power = less cost, now and in the future.

Year on year calculable savings

Consume up to 80% less electricity

therefore, less carbon pollution; less waste from longer-life bulbs.

Research shows lighting levels can have a major effect in a learning environment if harnessed intelligently.

So what better place to put good lighting to positive practical advantage than a school?

Partnered with Less is More Capital

A social enterprise financial institution, focused on achieving their aim, not generating profit. Their aim is to increase the resources for educating disadvantaged children in UK Schools.



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How it works...

1

Survey your school and understand the running cost of the schools existing lighting

2

Design new LED lighting scheme for your school and calculate energy and cost savings

3

Use the savings made to fund a low cost Operating Rental supplied by Less is More Capital

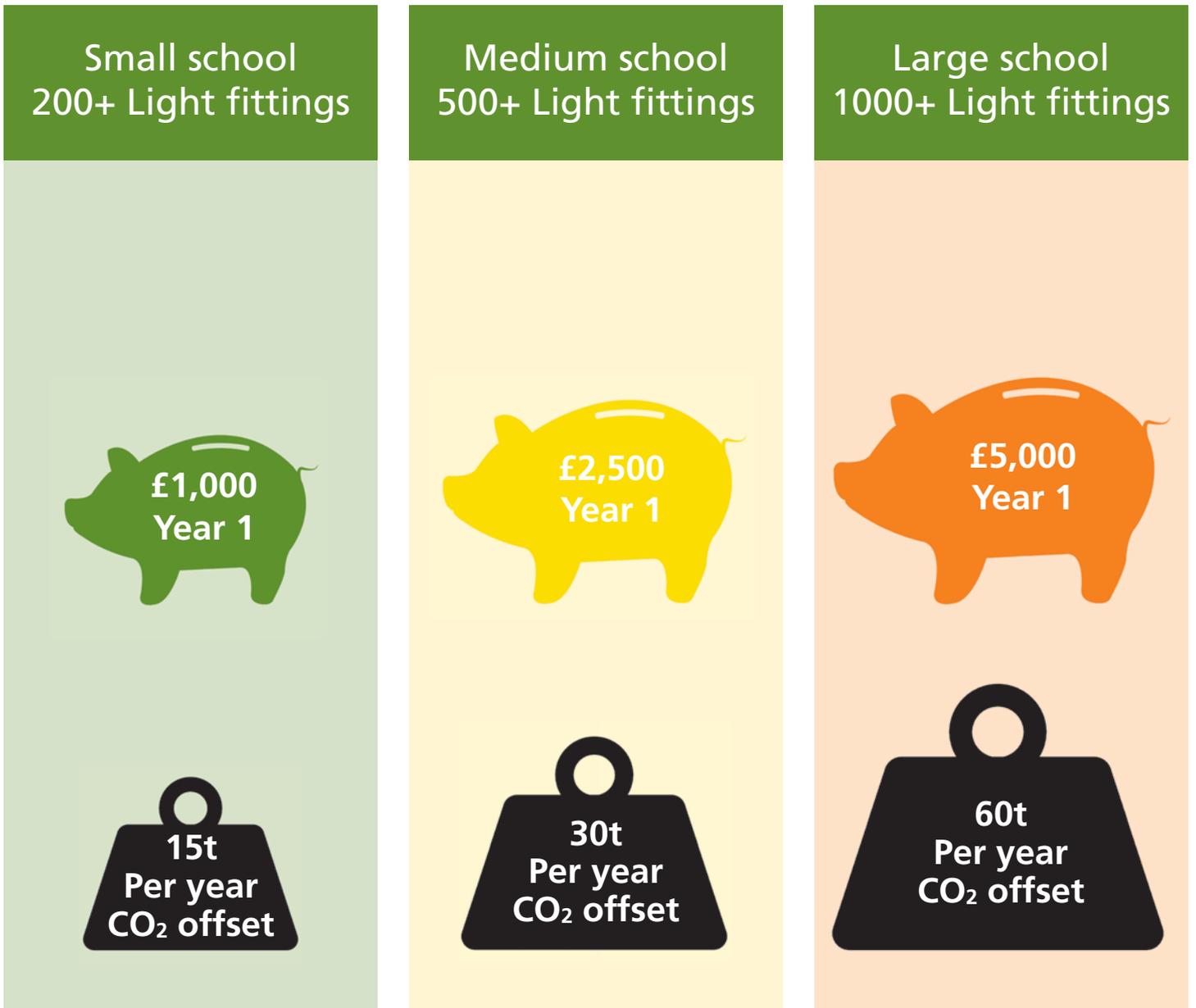
4

Rental payments are calculated so that they are smaller than the monthly energy costs saved through the installation

5

Schools can generate yearly cash surpluses to increase educational opportunities for children from disadvantaged backgrounds

Expected savings...



Based upon utility electricity prices of 11p/kWh and 60% reduction in energy cost. Numbers reflect annual project savings based on prior energy consumption, electric rates and specific usage hours. Savings for individual schools may vary.

Partnered with

Less is More Capital

A social enterprise financial institution, focused on achieving their aim, not generating profit. Their aim is to increase the resources for educating disadvantaged children in UK Schools. The Department for Education has confirmed their financial structure is classed as an operating lease, an appropriate funding method for schools.

How do they do it?

- The cost of capital is significantly lower than for-profit companies.
- Their aim is the same as the school's, to educate disadvantaged children, not to generate financial returns for their shareholders.
- In other words they give up margin to achieve their social mission.
- They have been able to negotiate lower prices and longer warranties.
- We are able to offer low cost funding over 13 years so cash surpluses are generated from year one.
- They are supported by Santander Bank, DLA Piper and KPMG under their corporate CSR strategies.



Current energy
cost of lighting
£10,000

New cost of
energy spent on
lighting £4,000

Savings on
energy £6,000

Annual rental
cost £4,000

Year 1 income
for school
£2,000

Refit your whole school
with modern LED lights
in a single project with
no capital outlay.

What happens next...

1

On approval we conduct a site survey. Your site and energy consumption are analysed

2

An LED lighting system design is created, tailor-made for your school

3

We arrange for one of our consultants to visit you and present your bespoke lighting proposal

4

The installation of the system takes place

5

To give you peace of mind, we warranty the system for the entirety of the rental period



“ We are very satisfied with our new LED lighting. Where once we had concerns due to poor illumination we now have brightly lit spaces. RS Lighting provided us excellent service both before and during installation We couldn't be happier with RS Lighting and this project. ”

Jerry Norriss, Site Manager
John Keeble C of E Primary School

Case study



Priory School

Special Academy



School background

Priory School is one of the first special academies in England dedicated to the education of young people with complex moderate learning difficulties. There are 158 young people at the school between the ages of 9 to 18 years.

The school was recently inspected by OFSTED and achieved an “Outstanding” grade for both the school and residential department. This is a testament to the hard work of all of those involved with the school.

School’s previous lighting situation

The school was suffering from poor and outdated fluorescent lighting that was producing insufficient out-put. 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

The money to fund the new lights, was already in the schools budget and being spent on wasted energy. The school lowered energy cost by 60% and zeroed ongoing maintenance costs, allowing the school to fund the new lights using a Department for Education approved Operating Rental without increasing expenditure.

The school now has new LED lighting throughout the building keeping classrooms properly lit. Sensors in common and closed areas add to the savings and the whole school has a brighter and more up to date feel.

Project facts

Lighting retrofit efficiency upgrade

- Energy & maintenance cost savings **£6,983**
- Power savings (kW/h) **52464**
- Reduction in CO₂ emissions (tonne) **26**
- Revenue generated from savings over the project lifespan **£108,690**

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.



“ On behalf of the pupils and staff here I wanted to thank RS Lighting for the manner in which they have installed our new lighting system. They were fantastic, always pleasant and very professional. It has been a pleasure having them on site. We look forward to working with them again. ”

Lawrence Chapman, Headteacher
Priory School Special Academy



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Renewable Solutions is proud to be working with...



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