



Railton Energy





Cutting costs for generations

Turn rooftops into long-term assets with solar energy

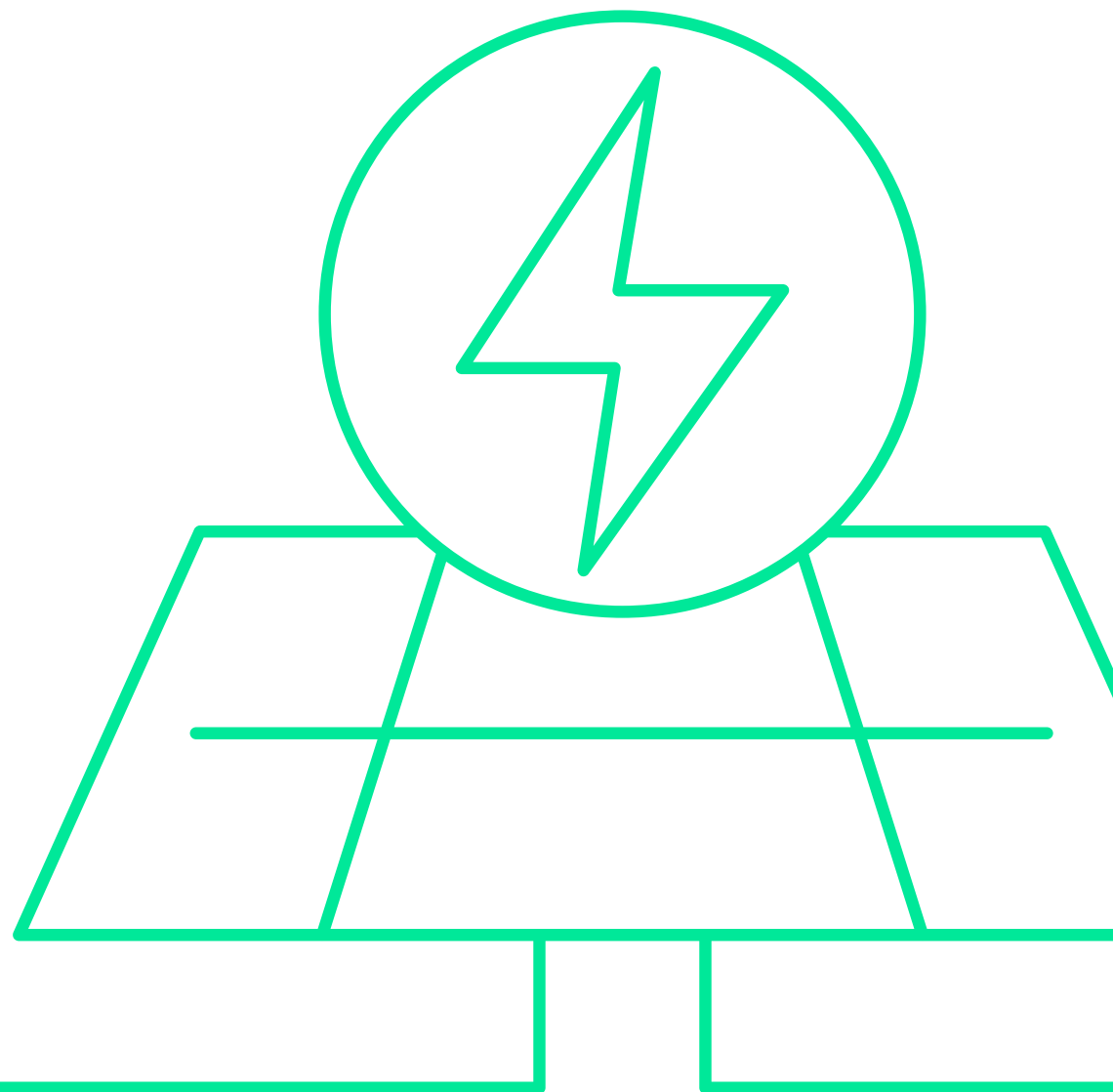
EDUCATION SOLUTIONS



CASE STUDIES

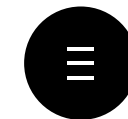


FREQUENTLY ASKED QUESTIONS





On average, a typical school could save
up to **£25,000 per year** if they had
solar panels.



Energy costs don't have to keep rising unchecked.

Many education establishments are now generating a portion of their own power – turning unused roof space into a long-term financial asset.

Solar is not a speculative investment. It is proven infrastructure designed to reduce running costs year after year. Railton Energy specialises in designing and installing solar systems specifically for education environments, where safety, continuity and accountability matter.

- ✓ Reduce running costs
- ✓ Education-sector specialists
- ✓ Proven real-world returns
- ✓ Future-resilient energy supply
- ✓ Safe, reliable technology
- ✓ Reduced carbon impact



Solar is not a speculative investment



More budget

For education, not utilities



Use your roof space

Generate power where it's needed



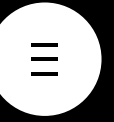
A long-term asset

Delivering value for decades



Sustainable energy

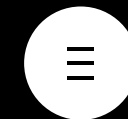
Reliable and predictable



Solar panels on school rooftops mean energy bills are cut and money can be invested directly into improving young people's education while helping to tackle climate change for the next generation.

MICHAEL SHANKS | ENERGY MINISTER





How we work

1

Free study from our specialists

We review roof suitability, electrical infrastructure and energy usage to establish practical viability.

2

Our projection and recommendation

You receive a clear proposal with projected performance and long-term savings.

3

Installation with minimal disruption

We coordinate closely with site and facilities teams to plan installation around normal operations and avoid downtime.

4

Ongoing Support and maintenance

Monitoring, support and warranty protection ensure consistent performance long into the future.



The solar solution for education establishments

Railton Energy designs systems around how your school, college or university operates day to day. Different buildings require different approaches. We will specify equipment and layouts for safety, reliability and long-term performance.

The technology is mature, proven and straightforward to maintain. Solar energy systems operate quietly in the background, all the while delivering measurable savings.

Your installation includes monitoring and reporting tools that allow facilities teams, leadership and governors to clearly understand performance. Many schools have used the data for teaching pupils and students about energy and sustainability.





CASE STUDY

Graveney School

£48,500

Solar PV system cost

6.1 years

Time to pay back investment

£525,840

25 year return on investment





**Graveney
School**

CASE STUDY

Graveney School

Installation of a high-performance solar PV system designed to reduce electricity cost and carbon emissions for the Lower Science Block.

The building's supply also fed the Lower Block and Lower Gym Block, so we conducted seven days of detailed power logging. The Lower Science Block consumption profile was **20,120 kWh**. The solar PV system delivers **27,500 kWh** of clean electricity annually, more than enough to offset the building's demand.





CASE STUDY

Camp Hill School for Boys

£139,340

Solar PV system cost

5.8 years

Time to pay back investment

£1,311,228

25 year return on investment





**KING EDWARD VI
CAMP HILL
SCHOOL FOR BOYS**

Educational excellence for our City

CASE STUDY

Camp Hill School for Boys

Installation of a large-scale solar PV system designed using detailed modelling to maximise performance across multiple roof areas.

We carried out a full site survey, energy-use analysis and PV Sol modelling to design a system suited to the building's roof, shading and consumption patterns. The system generates **83,614 kWh** of clean electricity annually, delivering significant savings. Installation was carefully planned and managed to avoid disruption to school activities.





CASE STUDY

Northfields School for Girls

£160,000

Solar PV system cost

5.1 years

Time to pay back investment

£1,904,978

25 year return on investment





**KING EDWARD VI
NORTHFIELD
SCHOOL FOR GIRLS**

Educational excellence for our City

CASE STUDY

Northfields School for Girls

Installation of a solar PV system using an East/West configuration to maximise generation throughout the day, with remote monitoring and a reception display to engage students.

We designed the system using detailed modelling to reflect the building's roof layout, shading and energy use. It generates **138,000 kWh** of clean electricity annually, covering approximately **49%** of the school's demand.





CASE STUDY

Handsworth School for Girls

Science Block

£73,370

Solar PV system cost

6.7 years

Time to pay back investment

£643,541

25 year return on investment





CASE STUDY

Handsworth School for Girls

Science Block

Installation of a solar PV system designed for the Science Block, where energy demand is more concentrated and predictable throughout the day.

We measured the building's electricity use and calculated its demand profile, then designed a system to match that demand as closely as possible. The project was planned around normal school activity, with careful scheduling and site management to minimise disruption.





CASE STUDY

Handsworth School for Girls

Fitness and Dining Block

£116,867

Solar PV system cost

6.3 years

Time to pay back investment

£1,051,874

25 year return on investment





CASE STUDY

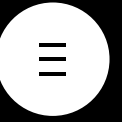
Handsworth School for Girls

Fitness and Dining Block

Installation of a solar PV system designed specifically for the Science Block, making efficient use of available roof space to support on-site energy generation.

We assessed the roof of the Science Block, then calculated their usage and electrical demand to design a system that makes efficient use of the space available. The project was planned around normal school activity, with careful scheduling and site management to minimise disruption.





MEET THE RAILTON ENERGY TEAM



Paul Hunter
Founder and Director

With 30 years in facilities management, Paul is a highly experienced project manager. He now specialises in solar energy systems and has spent 16 years at Railton Energy. His role spans the full project lifecycle, covering feasibility, design, installation and long-term operational support.



Andy Railton
Director

Andy, a qualified Building Surveyor who has spent 37 years in the building industry, with the last 15 years delivering renewable energy projects, ensuring installations meet the highest standards with the least disruption. He believes solar should be a positive experience, shaped by thoughtful design, respectful on-site working practices, and a strong team culture.



Mick Hunt
Director

Mick leads installation and is responsible for health and safety with three decades of construction industry experience, and one decade of experience in the solar industry. Having previously headed a school department, he understands how education environments operate. Today he uses that experience to ensure projects are planned and delivered efficiently and safely.



FREQUENTLY ASKED QUESTIONS

Will the installation disrupt our school's operations?

We take great care when planning our installations so that works are undertaken with little impact on the day-to-day operations. We consult with the building facilities team and decision makers to agree what activities are done and when. This coordination ensures we get it right every time.

How do we maintain the system?

Railton Energy offers maintenance packages tailored to your system, including monitoring, annual inspection, cleaning, and system reporting.

How do we know if the system is operating correctly?

As part of the installation, we include state of the art remote system monitoring which you can access to check just how much money you're saving. Meanwhile we will use the data to check that the systems are achieving projected targets.

Can the solar generation data be on display?

Yes, we can incorporate a live monitoring display screen, often installed at the main entrance or reception. It displays what is being generated in real time, what has been generated to date, and what carbon offset has been accrued.

Will our roof support the new system?

Solar PV systems are surprisingly light, often 20 – 25kgs per m2. We always carry out a thorough inspection before designing the system. We'll provide our system weight calculations and distribution plans.

Are you accredited to install solar panels for schools?

We've feel that it's important to be accredited, especially because of our work with schools. They include:





Schools plan for the long term. Solar power applies the same long-term thinking to energy generation. It turns a constant cost into a lasting asset for generations to come.

ANDY RAILTON | DIRECTOR

Ready to see how this could benefit you?

Book your **FREE** solar audit with an education energy specialist.



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