



**powerstar**<sup>®</sup>

100% British Engineered. 100% Guaranteed Results.

# THE INTELLIGENT ENERGY SAVING SOLUTION FOR EDUCATION FACILITIES.

## **GUARANTEED.**

### **WHY POWERSTAR FOR EDUCATION FACILITIES?**

With the intent to improve overall energy efficiency, many education facilities are seeking reliable, proven technologies that will not only help reduce energy consumption and carbon emissions, but that will also achieve significant savings on operating costs.

One simple and cost effective way to achieve this is through voltage optimisation, and an increasing number of universities and colleges are turning to Powerstar to meet their sustainability objectives. Powerstar offers:

- **Record savings of 26.1% on energy consumption and associated CO2 emissions**
- **Average savings of 12%-15% on energy consumption**
- **Significant reduction in harmonics**
- **Up to 15 years warranty and a 50 year life span**
- **No moving parts, therefore no maintenance**
- **Increased life expectancy of equipment and reduced maintenance costs**
- **No negative impact on facilities or services**

#### **HERE'S WHAT OUR CLIENTS SAY:**

“ We are absolutely delighted with the Powerstar system, which has reduced the total electricity consumption at our Student Union Building by 16%. The system has also reduced the failure of light tubes by an amazing 75%. ”

Sheffield Hallam University: **Stephen Ward**  
*Senior Electrical and Mechanical Engineer*

“ As part of our sustainability programme we targeted electricity supply as an area where savings could be made and the aim of installing the voltage optimiser was to save money and energy whilst boosting efficiency. The team was highly professional throughout and I have no hesitation in recommending Powerstar. ”

King Edward VI College: **Kevin Paisley**  
*Estates Manager*



# CASE STUDIES



## SHEFFIELD HALLAM UNIVERSITY

Sheffield Hallam University has implemented a number of projects – including energy efficiency initiatives – to reduce its impact on the environment. One area targeted by the university was its Student Union building, where energy consumption was high and where light tube failure occurred regularly.

### Savings

The installation was completed without disruption and the university has since seen a reduction of **16%** in kWh consumption and **19%** in the maximum demand. The failure of the light tubes was also monitored for 18 months before and 18 months after the installation of Powerstar, and a **75% reduction** in light tube failure was achieved. Combined results led to a payback of just over **1 year**.



## THE UNIVERSITY OF SURREY

The University of Surrey has held sustainability at the heart of its CSR agenda for over a decade. The campus, which is home to 17,900 students and 2,597 staff, views investing in sustainable technology as a critical component to reduce its impact on the environment.

### Savings

Upon installation, Powerstar guaranteed **8.1%** savings on annual energy consumption at the University of Surrey, equating to **189,474kWh** per year. Financially, the university will benefit from annual savings of **£13,911** on its electricity bills, and it should achieve a payback of just over three years.



## CARLINGHOW ROYAL PRINCESS PRIMARY SCHOOL

Carlinghow Royal Princess Primary School is aware of its corporate responsibility to reduce carbon emissions and, as such, sought a reliable solution that would allow it to reduce its impact on the environment without affecting the facilities available to pupils.

### Savings

The system was able to outperform the guaranteed **10.1%** savings predicted, instead achieving an impressive **15.2%**. The system has helped Carlinghow Royal Princess Primary School save **4,434kWh** in just two months.



## RICHMOND ADULT COMMUNITY COLLEGE

Richmond Adult Community College in London is a centre of learning that offers students the opportunity to extend their existing skills and acquire new ones. The College is a keen proponent of environmental issues and asked Powerstar to demonstrate how voltage optimisation could reduce its electricity use and improve its carbon footprint.

### Savings

Based on the site survey, **210kVA** Powerstar units were installed at two of the College's sites. Following the installation, Richmond Adult Community College is saving an average of **16%** on electricity consumption.



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