



Financial savings are a “brilliant bonus” ...

Annual savings of £14,000 are just the icing on the cake for a Nottinghamshire school with long-running power supply issues.

LONG-RUNNING problems with high voltage at a 1,600 pupil school in Nottinghamshire have finally been solved, thanks to the installation of an iVolt unit.

Managers at Brunts Academy in Mansfield turned to the intelligent voltage optimisation equipment to tackle an erratic power supply and say the fact they're also set to slash their electricity bills by around £14,000 a year is “a brilliant bonus”.

The academy, a designated performing arts college for 11-18 year-olds, had been suffering from peaks in power supply as high as 270V, while the average 255V it was experiencing had led to lamps and UPS drives burning out on a frequent and regular basis.

Since the installation of the iVolt unit in February 2013, the voltage has been reduced to a steady 225V, slashing bills and carbon emissions by around 12% and bringing a host of additional savings by protecting equipment.

Mick Stevens, the premises manager at Brunts, explained: “Power was coming in to the building at an average 255V but was as high as 270V at times and it was blowing all sorts of equipment.

“We looked into various energy saving initiatives and spoke to Lenton Electrical, who suggested we look at iVolt. We liked the fact it was much more controllable than other systems. The 12% savings are a brilliant bonus but the fact that we can see everything is constant is key and the manhours we have saved in terms of reduced maintenance have been excellent. At one point we were changing 150 lights a week now we're only changing 10. I'd highly recommend it.”

Probably the most advanced voltage optimisation system on the market, the iVolt lowers a site's incoming voltage to a steady 220V

(+/- 1.5%) - the level at which electrical equipment is design to work best in the EU. This not only reduces energy consumption but removes the risk of power surges and brownouts. It also increases the performance and lifespan of equipment and reduces maintenance and servicing costs – benefits that have proved key for Brunts.

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Named one of 30 British businesses with “world class potential” by *The Daily Telegraph*, iVolt's technology differs from the rest of the market as it uses pioneering new technology to track savings as they happen, with a patented Intelligent Real Time Energy Monitor. This integrated device, which can be linked to a cloud-based GPRS system, enables facility managers to see, from the comfort of their desk, the electricity a site is using – and saving. Those managing a portfolio of properties can also track multiple sites and see which are the best and worst performing at any given time.

Brunts Academy, which can trace its routes back to 1687 and has a workforce of more than 150 staff, has also had solar panels installed, while LED lighting is next on the agenda. The iVolt alone is set to reduce the school's impact on the environment by almost 79 metric tonnes of CO₂e.

PROJECT/CUSTOMER:
Brunts Academy,
Nottinghamshire

INDUSTRY/APPLICATION:
Education

YEAR OF INSTALL:
2013

ANNUAL kWhr CONSUMPTION
1,251,115kWhr

IVOLT UNIT SIZE
IVO3x400-12-2

ENERGY SAVING
12%

CO2 EMISSIONS REDUCTION
78.76 metric tonnes

The iVolt® was designed in the UK and production takes place at its facility near Heathrow Airport. The company is part of the global Sollatek group and is accredited to ISO9001:2008

FOR MORE INFORMATION:

T: 0845 075 8580

E: info@ivoltsystems.co.uk

W: www.ivoltsystems.co.uk