

NOTTINGHAMSHIRE SCHOOL OPTIMISES VOLTAGE & SLASHES ELECTRICITY BILLS



The installation of iVolt at Brunt's Academy reduced voltage to a steady 225V, cut electricity bills and protected equipment from power surges, leading to reduced maintenance costs.



Thanks to the installation of an iVolt unit, the long-standing high voltage issues at Brunt's Academy, a school in Nottinghamshire with 1,600 pupils, have finally been resolved. The intelligent voltage optimisation equipment was chosen by the academy's management to tackle the erratic power supply that led to frequent burning out of lamps and UPS drives. In addition to fixing the voltage issue, the iVolt unit also reduced the school's electricity bills by thousands in the first year.

Prior to the installation of the iVolt unit in February 2013, the academy had experienced power supply peaks as high as 270V and an average voltage of 255V. The installation of the iVolt unit has reduced the voltage to a steady 225V, leading to a 12%* reduction in

energy consumption and carbon emissions. The reduction in voltage has also brought about significant savings by protecting equipment, which has resulted in reduced maintenance and servicing costs.

"We looked into various energy saving initiatives and spoke to local electrical contractors, 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."

at a glance

BRUNT'S ACADEMY



336,046
TOTAL ENERGY
SAVED (kWh)



3x400A
IVOLT SIZE



17/06/2013
INSTALL DATE



21.4
ROI ACHIEVED
(MONTHS)



182,137
CO₂ EMISSIONS
REDUCED (kg)



9.4
ENERGY
SAVED (%)

*9.4% after LEDs were installed and before IRT was switched off

INFORMATION CORRECT AS OF 13/03/2023



The iVolt is an intelligent voltage optimisation equipment that provides a dynamic solution for voltage control, as opposed to static, manually adjustable solutions. This dynamic technology has numerous advantages over static systems, including the ability to respond to changes in voltage demands in real-time, providing a more accurate and efficient solution and lowers the site's incoming voltage to a steady 220V (+/- 1.5%), the optimal level for electrical equipment in the EU. This not only reduces energy consumption but also removes the risk of power surges and brownouts.

The installation of the iVolt unit has been a resounding success for Brunts Academy, providing a steady voltage supply, reducing energy consumption and costs, protecting equipment, and reducing carbon emissions. The voltage optimisation system has not

only resolved the voltage issues but has also reduced the school's impact on the environment by over 180 metric tonnes of CO₂.

The savings are excellent 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 brilliant.

*Mick Stevens
Premises Manager*

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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 ISO9001:2015

iVolt® offer a vast range of product sizes, ranging from 63A to 3,000A and above in both single and three phase, with a number of installations having been completed throughout the commercial, retail, manufacturing, leisure and public sectors.

iVolt®
Intelligent Power Optimisation