

We don't predict energy savings at iVolt  
- we PROVE them\*

iVolt®

Intelligent Power Optimisation

"One of 30 British businesses with world class potential"  
*The Daily Telegraph*



\*And we're the only voltage optimisation manufacturer who can ...



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# Eco-School now even greener with iVolt

**T**he Leys School, one of England's premier independent co-educational schools, saves over £6,000 per year with iVolt's award winning voltage stabilisation technology.

Established in 1875 and set in its own 50-acre campus in Cambridge, The Leys School prides itself on being one of England's premier independent, co-educational schools offering 'a blend of traditional values and forward-looking approach to education' to its 500 plus boarding and day pupils. In the mid-2000's, the school decided to move on to a more 'sustainable course' by looking at ways to reduce their waste and cut their carbon footprint. This led to the school attaining the prestigious Green Flag award from the International Eco-Schools programme in 2010. The Green Flag award requires schools to find new and innovative ways to meet the nine areas which form the Eco-Schools framework: Water, Biodiversity, Energy, Global Perspectives, Healthy Living, Litter, School Grounds, Transport and Waste. Schools are then re-assessed every 2 years to ensure that they are continuing to look to implement further sustainable reductions.



As a way of achieving further efficiency from their electric equipment, The Leys School's Director of Facilities, Nathan Keen, explored various methods of voltage control. This works by reducing the incoming supply voltage and if possible, stabilising the supply voltage to 220Volts, the point at which CE marked equipment operates most efficiently. iVolt's ground breaking voltage stabiliser was considered because of its ability to stabilise with high accuracy (+/-1.5% of the desired voltage) and its patented IRT™ energy monitor which can verify kWh savings performance in real time.



**After installation I was able to access the web portal which showed nearly 7% in energy reduction across the school**

**Nathan Keen**  
Director of Facilities

After iVolt performed an in-depth survey of the site and all connected electrical loads, it was established that 87.6% of the load would stand to make significant, measurable reduction in kWh consumption when supplied with 220Volts as opposed to the 239V recorded average voltage. After assessing the sites maximum demand and making an allowance for 2 new buildings, scheduled to go online later in the year, it was decided that a proposal should be made rating the iVolt unit to the sites supply of 800A. The Leys School chose iVolt's solid state voltage stabilisation technology because it offered the best long term and ongoing kWh savings. Installation was completed during the October half term to fit around the school's busy term time. Immediately after installation, the Director of Facilities was able to see instant results using the patented IRT™ monitor. This showed a reduction in kWh consumption of 6.9% equating to a reduction in CO<sub>2</sub> emissions of 38.8 metric tonnes and over 73,000kWh's per annum.

All kWh savings achieved by the iVolt can be viewed by our clients using a secure cloud-based portal with live data streaming via the integrated GPRS modem and IRT™ monitor. The iVolt is available in both single and three phase from 63A up to 3,000A and above, with a

number of installations now completed across a number of sites that include restaurants, hospitals, schools, colleges and universities, as well as train stations, manufacturing plants, airports, police stations and leisure centres to name but a few.

**THE Leys**  
CAMBRIDGE

## AT A GLANCE...

### PROJECT / CUSTOMER

The Leys School

### DATE OF INSTALL

October 2013

### ANNUAL kWh CONSUMPTION

1,068,064

### IVOLT UNIT SIZE

800A

### ENERGY SAVING

6.9%

### EXPECTED RETURN ON INVESTMENT

16.5%

### CO<sub>2</sub> EMISSIONS REDUCTION (METRIC TONNES)

38.8

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 ON IVOLT:

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