

# Dragons roar green with iVolt



**L**ocated on the outskirts of Oxford's city centre, a city steeped in history and academic achievement through one of the world's most prestigious Universities and subsequent colleges, resides Dragon School.

In the past few years Dragon School have made a concerted push to become more sustainable and environmentally friendly and are now set to reduce their CO<sub>2</sub> emissions by just under 13 metric tonnes having installed one of iVolt's award winning technology.

Established as a preparatory school in 1877 by Reverend A.E. Clarke, the Dragon School is situated across 2 sites and home to over 800 pupils aged from 8 to 13. Operating as a charitable trust offering a high standard of education for both its boarding and day children, the Dragon is home to some of Britain's most successful men and women in their chosen fields; novelists and writers, politicians, philosophers, actors, comedians and sports personalities.

In addition to maintaining a proud academic history, the school is keen to add to this by educating all their pupils to become much more aware of their surrounding environment and to preserve it for future generations.

With a clear vision in mind, the school undertook a number of measures to become greener and more energy efficient and in 2010, they gained the internationally recognised Eco Schools Green Flag Award. The Eco Schools program is run by Keep Britain Tidy and in order to receive the award schools must continue to make a positive contribution to the world around them within nine stipulated categories; Transport, Waste, Water, Litter, School Grounds, Healthy Living, Energy, Biodiversity and Global Citizenship.

In July 2013, iVolt received a call from Steve Poyntz, Estates Bursar at Dragon School, to discuss the benefits of iVolt over other voltage stabilisation technology. Having discovered some years earlier that many of the schools power supplies had incoming voltage often as high as 260V, they started their search for a form of voltage optimisation. Their focus in more recently seeking a state-of-the-art unit was to be able to monitor both voltage and usage remotely. This led to a swift decision in the purchase of a 300A unit being installed in August 2013. Installing iVolt's unique voltage stabilisation technology has helped the school to become greener by reducing CO<sub>2</sub> emissions by 12.73 metric tonnes and kWhr consumption of 10.5%.

**Following the installation, iVolt have been able to provide actual 'proof' of not only a reduction in emissions but also a cost saving. The cash savings generated will amortise completely the cost of the unit in a quicker than expected timescale. We have been most impressed with both the performance of our iVolt unit and the company's attention to detail.**

Steve Poyntz  
Estates Bursar

This has saved Dragon School just under £2,500 per annum. Designed with solid state technology that allows iVolt to continually monitor the incoming mains voltage and ensure a stable output voltage, which is typically 220Volts.

The additional benefit of a reduced, stable voltage will allow an improved service life of most equipment as well as

a decrease in energy consumed. What makes the iVolt different from other voltage control technology is that the voltage settings can be adjusted in single volt increments to account for the sites volt drop, without the need for the site to be shut down again. Also integrated within each iVolt is a patented IRT™ energy monitor that transmits data through a GPRS modem every 15 minutes allowing the client full visibility of their savings in real time via a secure cloud-based portal.



## AT A GLANCE...

**PROJECT / CUSTOMER**  
Dragon School

**DATE OF INSTALL**  
August 2013

**ANNUAL kWhr CONSUMPTION**  
223,656

**IVOLT UNIT SIZE**  
300A

**ENERGY SAVING**  
10.5%

**EXPECTED RETURN ON INVESTMENT**  
14.48%

**CO<sub>2</sub> EMISSIONS REDUCTION  
(METRIC TONNES)**  
12.73

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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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 ...



[www.ivoltsystems.co.uk](http://www.ivoltsystems.co.uk)

