

iVolt Exceeds Proposed Savings at Edinburgh College Campuses



Having set themselves an ambitious target to reduce CO₂ emissions by 250 metric tonnes over the next 2-3 years, as well as reducing their utility costs by up to 10% over the same period, Edinburgh College is very close to achieving this goal in the first year following the installation of iVolt's unique technology. With higher than expected savings the college are set to save 208 metric tonnes of CO₂ and over £35,000.

Edinburgh College, whose TFM services are managed by ISS Facility Services, is set across 4 campuses – Granton, Midlothian, Milton Road and Sighthill – and offers higher and vocational education for Edinburgh, the Lothians and surrounding communities by providing a varied range of courses including music, performing arts, construction, hair, beauty and contemporary therapies, electrical engineering with renewables, computing, business and languages. All 4 campuses have undergone significant refurbishment over the past 10 years; including the addition of one of the most advanced technology teaching centres in Scotland that features an Oil Production Platform Simulator at Midlothian Campus. Midlothian Campus is at the forefront of developing the skills of the next generation of engineers for the quickly expanding renewable energy sector by developing a teaching project, this has been achieved by installing a Solar Meadow with over 2,500 photovoltaic panels! It has also lead to the Campus to become less reliant on fossil fuels.

In 2014 contact was made by Sandy Clark, Head of Hard FM at ISS, to discuss

iVolt were selected as our preferred partner as we found they had the most thorough process for identifying and evaluating the savings across the sites. The work was completed to a very high standard. Would highly recommend using iVolt as a credible company for reducing electrical consumption in your building.

*Sandy Clark
Head of Hard FM*

the benefits of voltage stabilisation as a way to further reduce CO₂ and energy costs at the college campuses, as well as understand the processes that are undertaken by iVolt from initial contact to completion of a project. Following an explanation of the thorough engineering audit process and post evaluation validation iVolt were instructed to carry out surveys at each campus and provide a detailed proposal; this would include financial summary, projected kWhr consumption reduction, energy saving and CO₂ emissions reduction along with a detailed schematic of each installation.

From the subsequent surveys 3 of the 4 campuses were identified that would benefit from installing voltage stabilisation; these were Granton, Midlothian and Sighthill. As Sighthill required a 1500A unit and one of the more complex delivery routes, a carefully planned Hi-Ab offload and positioning process would need to be undertaken by the designated freight forwarders to ensure the health & safety of personnel working on site. In March 2015 the 3 projects were approved by ISS and

Edinburgh College, with Sighthill going ahead in May and Midlothian and Granton following in June. Utilising iVolt's IRT™ system and secure web based portal for accessing information, both Edinburgh College and ISS were able to measure and verify actual energy savings compared to the proposed ones; all in real time. A report was submitted to ISS showing the project payback had dropped from an estimated 3.85 years down to 3.45 years with the ROI (Return On Investment) increasing from 26% to 29%.

AT A GLANCE...

PROJECT / CUSTOMER

ISS Facility Services –
Edinburgh College campuses

DATE OF INSTALL

30th May, 20th June & 21st June 2015

ANNUAL kWhr CONSUMPTION

6,623,286

IVOLT UNIT SIZE

500A, 1200A & 1500A

ENERGY SAVING

6.4%

EXPECTED RETURN ON INVESTMENT

29%

CO₂ EMISSIONS REDUCTION (METRIC TONNES)

208.4

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:

T: 01753 214500

E: info@ivoltsystems.co.uk

W: www.ivoltsystems.co.uk

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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