

iVolt units exceed forecasted savings in all 5 Council buildings



In October 2015, in the first of two Voltage Stabilisation tenders issued by North Ayrshire Council, iVolt was the successful bidder. The portfolio of properties included 3 schools and 2 council buildings. As part of the tendering process all sites were surveyed by our in-house engineering team and a forecasted savings prediction was made which would achieve a guaranteed payback period. These are shown below:

Bridgeway House 5.14% savings to achieve payback in 7.36 years.

Building Services Complex 7.41% savings to achieve payback in 5.41 years

Dalry Primary School 3.98% savings to achieve payback in 7.82 years

Irvine Royal Academy 6.64% savings to achieve payback in 4.84 years

Kilwinning Academy 5.53% savings to achieve payback in 7.7 years

Following the installations the council was able to log into iVolt's bespoke web-based energy portal and review the savings after 7 days of operation.

Built into every iVolt is the unique IRT (Intelligent Real Time) monitoring system that allows the unit to go into electronic bypass every 15 mins for 5 seconds (completely customisable) to record before/after consumption. By bypassing the unit it can effectively and without the need for regression analysis calculate the actual kWh savings being made. In each of the 5 sites measured between the date of install and 28th March 2017 the savings exceeded the forecasts. The results are shown below:

Bridgeway House	6.45%
Building Services Complex	8.87%
Dalry Primary School	7.26%
Irvine Royal Academy	8.13%
Kilwinning Academy	7.77%

In October 2016 the process was repeated and again iVolt were the preferred bidder for 6 sites, although this was later reduced to 4 sites as payback fell outside of the Council's criteria. The overall savings were predicted to be 6.8% but in fact using the same process have been measured at 8.1% overall. This has significantly improved the Council's project payback.



AT A GLANCE...

9 Council buildings including 6 schools

PROJECT / CUSTOMER
North Ayrshire Council

DATE OF INSTALL
Oct 2015 & 2016

ANNUAL CONSUMPTION
3,012,36 Kwh

IVOLT UNIT SIZE
9 units from 100A to 400A

ENERGY SAVING
7.6 % (2015) 8.1 % (2016)

EXPECTED RETURN ON INVESTMENT
Est 6-7 YRS

CO₂ EMISSIONS REDUCTION
87.7 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 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 ...



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