

Leicester Station saving with iVolt and securing the stations electrical resilience.

EAST MIDLANDS TRAINS



East Midlands Trains are seeing savings 142,000 kwh at their Leicester Station by adopting iVolt's intelligent voltage optimisation technology. The system is unique in that it was designed to be incorporated within a new LV switch panel manufactured by Main Systems, who iVolt worked closely with to deliver the project. The iVolt unit is a 2400A/1584 kVA.

Featuring a seamless bypass system it provides total continuity of site supply and through the GPRS modem transmits data on the performance of the unit giving EMT not only complete piece of mind but also a validation to the savings actually being made since the implementation of the iVolt. Energy usage at the station was approximately

1.4m kWh per annum which was generating Carbon in excess of 623.7 metric tonnes. With the iVolt installed EMT have seen an energy reduction of 9.6% between Sept 2013 and Feb 2014.

“The station is in operation 24/7 and consumes a large amount of electricity so it is imperative that we reduce our running costs, not only using the iVolt but with other controlling systems. Our main areas of consumption are platform lighting and office heating. There are days when lights are on for long periods of time and the voltage would be

high and by installing the iVolt and reducing the consumption we expect to reduce our running costs and carbon footprint. A couple of years ago we experienced a high surge of power at one of our stations, which caused unnecessary damage which may have been prevented if the iVolt had been installed.”

Robbie Moir, Estates Maintenance Manager for East Midlands Trains

The project was commissioned through SSE's contracting division SEC and completed in Sept 2012.

Named one of 30 British businesses with 'world class potential' by The Daily Telegraph, the iVolt differs from other voltage optimisation systems by offering a patented Intelligent Real Time (IRT) Energy Monitor. This groundbreaking device, which is integrated into every unit, enables the team at East Midlands Trains to track their savings instantly and accurately. As well as being used to educate staff about their energy usage, the data the IRT monitor provides enables the team to confidently predict a site's return on investment. As a variable reduction system, the iVolt also allowed for up to 30% greater savings than fixed reduction units.

FOR MORE INFORMATION ON IVOLT:

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AT A GLANCE...

PROJECT / CUSTOMER:
Leicester Station -
East Midlands Trains

DATE OF INSTALL
Sept 2012

ANNUAL kWh CONSUMPTION
1,422,423

iVolt UNIT SIZE
IVO3x2400-12-2

ENERGY SAVING
9.6%

CO2 EMISSIONS REDUCTION
61 metric tonnes



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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