

Global manufacturer on clear path to energy reduction



Intersurgical, Europe's leading designer, manufacturer and supplier of high quality respiratory care products for hospitals, has chosen to implement iVolt's ground-breaking technology at the UK headquarters and manufacturing facility in Wokingham, Berkshire.

From this highly specialist manufacturing facility, Intersurgical provide flexible patient solutions for airway management, anaesthesia, critical care, as well as oxygen and aerosol therapy, primarily for use within the hospital environment but also at home. Founded in 1982 and now with 13 subsidiaries globally, Intersurgical was the first company to bring PVC-free anaesthetic and respiratory products to the global markets, improving patient health, as well as having less of an impact on the environment.

John Barnes, Intersurgical's Engineering Manager, explored various methods of voltage control as a way of finding efficiency throughout a wide range of specialist equipment, as well as more commonly found office equipment connected to the site. After a full detailed survey of the site and all connected electrical loads, it was established that 87% of the equipment throughout their integrated offices, manufacturing and warehousing facility, would make a significant and measureable reduction in kWh consumption when supplied with 220Volts. In addition to the direct

reduction in energy consumption and carbon emissions, most electrical equipment will see an increased lifespan, because it is operating closer to EEC tolerances for which it was designed.

Replacing production lines, extrusion lines, and machines specific to the nature of our business would have been very disruptive to our busy 24 hour operation. By monitoring the supply voltage, the iVolt is able to vary the reduction it makes, effectively stabilising the voltage to around 220Volts, which is ideal for the equipment at our site.

John Barnes
Engineering Manager

With such a high proportion of equipment standing to benefit from a reduced voltage, a decision was made to install iVolt's award winning voltage stabilisation technology, on the main incoming supply in September 2013. After installation, savings performance could be viewed immediately through the unique, patented IRT™ monitor, showing a 7% reduction in kWh consumption. Since installation of the iVolt, Intersurgical have upgraded the air conditioning system which feeds the main production area, to a system which is speed controlled.

The savings attributed to the voltage stabilisation project have reduced to 6% as a result of this change, however, this still equates to an annual financial saving of over £13,000.

With high volumes of products manufactured and distributed to the medical industry, quality and engineering excellence is at the forefront for Intersurgical. All products are designed to meet the requirements of relevant BS, ISO, and EN standards. In addition, the company has committed to lowering the environmental impact of their products and services, and have implemented an Environmental Management System which has been certified to ISO14001. The iVolt helps to show a commitment and continual improvement in this area, providing an annual CO₂ reduction of 92.2 Tonnes.



AT A GLANCE...

PROJECT / CUSTOMER
Intersurgical Ltd

DATE OF INSTALL
September 2013

ANNUAL kWh CONSUMPTION
1,789,146

IVOLT UNIT SIZE
1000A

ENERGY SAVING
7%

EXPECTED RETURN ON INVESTMENT
27.2%

CO₂ EMISSIONS REDUCTION (METRIC TONNES)
92.2

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

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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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