

## case study

**Foxhills**

Project/Customer	Foxhills Country Club
Industry/Application	Leisure / hotel complex
Year of install	2011
Annual kWhr consumption	2,074,236 kWhr
iVolt Unit Size	IVO3x800M2 (528kVA)
% Energy Saving	10.2%
Co <sub>2</sub> emissions reduction	110.991 metric tonnes



### Top hotel and leisure resort finds an efficient route to significant savings

Bosses of a 70 bedroom hotel and leisure estate are saving thousands of pounds in electricity bills and creating a more energy-efficient workforce after installing a voltage optimisation unit by iVolt®.

Foxhills Hotel and Resort has seen its energy bills drop by more than £15,500 a year thanks to the technology, which is also making staff more eco-conscious by monitoring their electricity use.

The Surrey club sits in 440 acres of land and with five swimming pools, 12 tennis courts, a spa, two championship golf courses and a conference centre, was running up monthly power bills of around £13,000 and an annual power consumption of 2,074,236kWhr.

"Our energy demand grows year on year and with it our bills rise so for some time we had been considering ways of tackling this problem. Foxhills is a very busy place; we've got a lot of guests moving through and a workforce of 150-160 people and that means a lot of energy used," explained Facilities Director Ben Biggs.

Foxhills' convection ovens, pool plant and thousands of light fittings account for about two thirds of the total power consumption at the site. To find energy efficient solutions for all of these contributors would be costly, disruptive and time-consuming but the iVolt® was a one off investment that led to zero disruption to the running of the hotel and offers benefits across the whole site; reducing power bills by more than 10% - which equates to over £15,500 a year - cutting maintenance costs on heavy equipment and significantly reducing expenditure on new lamps.

Working with iVolt® distributor Powercor, Ben and his team considered the advantages of the British system, which is designed to monitor the peaks and troughs of the existing electricity supply and reduce it to a steady 220v (+/-1.5%) - the level at which electrical equipment works most efficiently.

As well as cutting the amount of energy wasted, the iVolt system also helps to prevent damage to electrical equipment, eradicates the risk of under-voltage and allows for up to 30% greater savings than with a fixed reduction system.

Ben explained one of the key benefits of the iVolt system - its unique Intelligent Real Time Energy Monitoring® technology - had also helped to educate staff about their own energy use, because it allows real time monitoring of savings. This integrated software not only enables the client to see value for money from the moment they turn the system on, but monitors when electricity use is at its peak.

"The savings are three-fold really," added Ben. "The iVolt® not only saves us money by reducing the amount of power we use but it reduces the strain on equipment, which means it lasts longer, and by monitoring our energy consumption in real time it provides me with crucial information which I can then take to my staff to make them more conscious of the electricity we're using - and in many cases wasting. This tool was really the reason we chose iVolt® over its competitors and we're very happy with the results we're seeing."



Foxhills Hotel and resort



The iVolt installed on site

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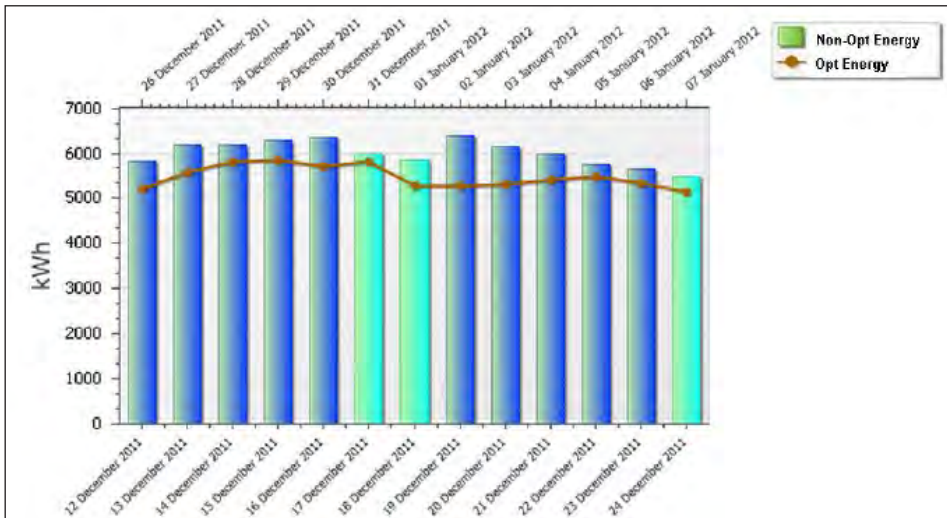
Ben Biggs,  
Facilities Director, Foxhills Hotel and Resort

**Main features and benefits of installing an iVolt:**

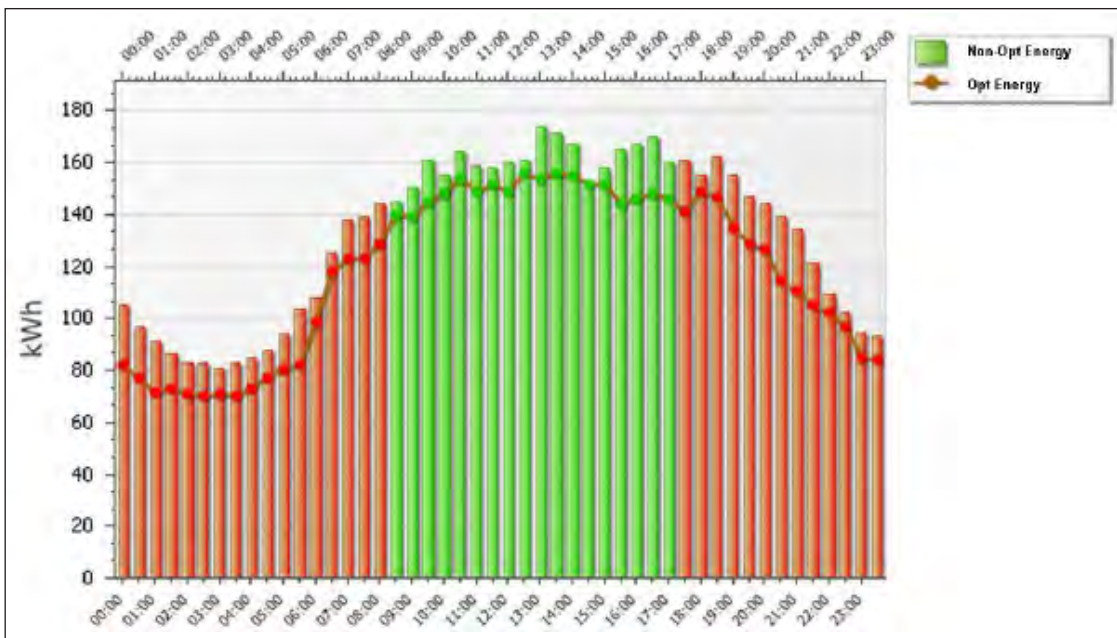
- Maximum possible energy saving. Up to 30% more than fixed units and expected savings typically between 10%-15%
- Built-in IRT measurement allowing the stakeholder to instantly realise and measure saving
- Using the IRT feature, savings are real and not theoretical. Independent of site variation post-install or environmental factors
- No risk of pushing the site into under voltage
- Always providing 220V (+/-1.5%)
- Balancing all phases to the same voltage level
- Improving power quality and ironing out variations
- Solid state technology and no maintenance required
- Where fitted, class I & II surge & lightning protection



Internal view of the iVolt



Daily unit period comparison



Half hourly unit period comparison

Our international Clients



Case Study, iVolt  
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