

# Case Study #29

Voltage Power Optimisation



## Checking in to a more sustainable future

**Why it is interesting:** Many hotel chains have carbon targets to hit, but consumption is driven by customers, who view a night away as a luxury. VPO® is an energy efficiency technology that requires no behavioural change and delivers carbon savings and an improved bottom line.

### QHotels

#### Annual Savings

kWh:	11.6%
CO <sub>2</sub> ,kg:	100,200
£:	15,700

#### Don't take our word for it...

"We were able to maintain the day to day running of the hotel during the installation, which was executed to the highest standards."

Philip King  
Director of Property



#### Further information

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Most businesses see energy savings as a way to mitigate cost or operational risk from their businesses. But for hotels, environmental action is often about improving the reputation of the establishment.



Few industries have such a shop window, where environmental poor performance is so open to scrutiny.

Most hotels chains are proactive in how they help the environment - from towel reuse and pillow top messages, to shampoo recycling and low flow shower heads. Nevertheless, as customers we all want a night in a hotel to feel like luxury, so there remains a difficult balancing act.

Where do hoteliers turn if shampoo recycling and cutting down on the fresh towels doesn't fit with the company ethos?

### QHotels

QHotels is a chain of 21 unique four-star hotels, each with its own individual character.

It takes corporate responsibility extremely seriously and recognises that environmental sustainability is of the utmost importance to customers, team members, local communities and investors.

Since 2008, when it launched a Corporate Social Responsibility (CSR) Steering Group, sustainability has become the cornerstone of the business and encompasses the way it does business each and every day.



Early emphasis on energy efficiency and sustainability means that the company has been able to develop and improve its property portfolio over time. As such, many of its hotels are already leaders in sustainable hospitality - all are accredited with the Green Tourism Business Scheme.

QHotels was also named AA Eco Hotel Group of the year in 2011/12.

## Voltage Optimisation

Maintaining a welcoming, bright and comfortable environment for guests means that some measures may not be feasible.

Energy efficiency implementations that require behavioural change are difficult to enforce.

Fortunately, voltage optimisation is ideally suited to work passively across a site without affecting business operations. What's more, because a large proportion of energy use in hotels comes from lighting and air conditioning, voltage optimisation tends to achieve excellent energy savings.

The installation of **powerPerfactor** at the Nottingham Belfry has reduced electricity consumption by 11.6%. This level of reduction equates to an annual carbon dioxide emissions saving of 100.2 tonnes and an annual financial saving of £15,700.

*"We recognise that environmental sustainability and reducing our Carbon Footprint is of the utmost importance to our customers, team members and local communities. We decided to trial **powerPerfactor's** voltage optimisation at the Nottingham Belfry," said Philip King, Director of Property. "The results using IPMVP analysis, has shown the hotel has reduced its electricity consumption by over 11.5%."*

## Expert installers

A key consideration when determining a supplier for voltage optimisation is the installation itself. **powerPerfactor** only uses qualified, experienced and approved electrical contractors to ensure the unit is expertly and painlessly added to a site's existing electrical infrastructure.

The Nottingham Belfry installation was carried out by Tech Compliance, an approved installation partner of **powerPerfactor**. Beyond the industry safety standards, Tech Compliance engineers have been assessed, tested and trained to work on **powerPerfactor** projects. This means that our clients can have faith that each installation will be carried out to the highest quality and standards.

The seasonality of hotels is something that we are used to dealing with, scheduling appropriate times to shutdown is part and parcel of the work our installation teams and PRINCE2 Project Managers do, we can even provide back-up generation if necessary to avoid a shutdown altogether.

In this case, all preparatory work was carried out in normal working hours to ensure that the final changeover onto an optimised supply was as quick as possible. Working with the client we arranged a site shutdown at 2pm on a Sunday afternoon, in order to minimise disruption to hotel operations.

*"We were able to maintain the day to day running of the hotel during the installation, which was executed to the highest standards. We look forward to working with **powerPerfactor** to assess other properties in the estate for further installations,"* added Philip King.



There are a range of case studies and client testimonials available on our website, please visit [www.powerperfector.com](http://www.powerperfector.com) for further information.