

# CASE STUDY

## Royal York Hotel

### INTRODUCTION

The Royal York Hotel is part of the Principal Hayley collection of individual hotels across the UK and Europe. Set in the heart of the city, the hotel is popular with business guests and facilities include 167 guest rooms, a restaurant, bar and has a dedicated events centre on site featuring 15 flexible event rooms.

### THE CHALLENGE

The hotel recognises that its operations impact on the environment and are committed to continually improving working practices and implementing energy management technologies. One condition of any sustainable initiative is that it must reduce carbon footprint without negatively impacting on guest experience or comfort.

The Powerstar team were invited to conduct a site survey to analyse and present the guaranteed savings that the hotel would achieve from the installation of a Powerstar voltage optimisation system.

Powerstar voltage optimisation was chosen to be installed into 9 properties in the PH portfolio.

### THE SOLUTION

After a site evaluation and load analysis, the Powerstar team identified that the most effective Powerstar system to match the electrical profile of the site, resulting in quantifiable savings.

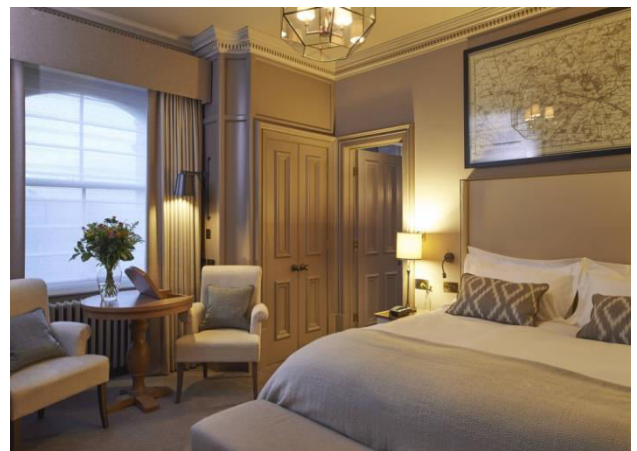
Due to its unique design Powerstar also provides total phase balancing and also filters harmonics from the supply.

Along with the energy reduction and financial savings, the hotel is benefiting from increased lifespan of electrical equipment due to reducing the over voltage supplied to appliances.

### KEY FIGURES

➤ **Annual consumption savings: 8.89%**

➤ **Annual financial savings: £16,522**



A typical bedroom in the Royal York Hotel



Relax in comfortable surroundings

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## Principal Hayley Hotel Group

### Savings across the Principal Hayley portfolio

PH Hotels is a collection of landmark city centre hotels and dedicated conference and training venues across the UK.

With 23 hotels in the PH Group they have approximately 4,000 bedrooms, over 500 meeting rooms and the ability to host over 26,000 delegates per day.

#### CUSTOMER QUOTATION

*"We worked closely with Powerstar to identify the best options for energy saving within our portfolio. We are extremely happy with savings on all of the installations and the service received."*



**Andy Barrett**, Principal Hayley

#### KEY FIGURES



 **Average annual consumption savings across all sites: 10.93%**

 **Average annual financial savings across all sites: £18,167**



#### ROYAL YORK HOTEL - YORK

-  Electrical consumption savings: **8.89%**
-  Annual energy spend reduction: **£16,522**



#### BEAUMONT ESTATE HOTEL - WINDSOR

-  Electrical consumption savings: **9.5%**
-  Annual energy spend reduction: **£26,712**



#### THE METROPOLITAN HOTEL - LEEDS

-  Electrical consumption savings: **21.57%**
-  Annual energy spend reduction: **£15,568**



#### MANCHESTER PALACE HOTEL - MANCHESTER

-  Electrical consumption savings: **18.5%**
-  Annual energy spend reduction: **£30,126**



#### ST JOHNS HOTEL - BIRMINGHAM

-  Electrical consumption savings: **11.85%**
-  Annual energy spend reduction: **£19,528**



#### HOTEL RUSSELL - LONDON

-  Electrical consumption savings: **8.62%**
-  Annual energy spend reduction: **£29,736**



#### ST DAVID'S HOTEL & SPA - CARDIFF

-  Electrical consumption savings: **5.45%**
-  Annual energy spend reduction: **£7,592**

#### KENWOOD HALL HOTEL - SHEFFIELD

-  Electrical consumption savings: **5.87%**
-  Annual energy spend reduction: **£3,621**

#### SELSDON PARK HOTEL & GOLF CLUB – GREATER LONDON

-  Electrical consumption savings: **8.13%**
-  Annual energy spend reduction: **£14,102**

