

CASE STUDY

The Palace Hotel Manchester

THE CLIENT

The Palace Hotel Manchester is part of the Principal Hayley collection of individual hotels across the UK and Europe. Set in the heart of the city centre on the busy Oxford Road.

The hotel is popular with business guests and facilities include 275 guest rooms, a restaurant, bar and 24 hour reception. There are also 19 meeting rooms, and a ballroom for events

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

THE SOLUTION

After a site evaluation and load analysis, the Powerstar team identified that a 500kVA Powerstar system would most efficiently 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.

The Powerstar system was installed with no disruption to the hotel operations and is providing savings 24/7 with no negative impact on guest experience.

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: 18%**
- **Annual financial savings: £30,000pa**
- **Return on Investment: Under 2 years**



THE PALACE HOTEL: A 275 room, Principal Hayley Hotel situated in the heart of Manchester



SIGNIFICANT SAVINGS: Following the installation of Powerstar the hotel is benefiting from annual savings of £30,000 per year

www.powerstar.com

CASE STUDY

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**