



The Castle at taunton

LOCATION

The Castle Hotel is located in Taunton Castle, a Grade II listed reconstruction of a 12th century Norman Fortress. This four star historic hotel has over 40 bedrooms rooms, two signature restaurants and a number of halls available for events. Within easy reach of the town centre, this accessible country hotel caters to weddings, parties and conferences.

CASE STUDY

The Castle Hotel Taunton, Somerset

Set in the heart of Somerset, The Castle Hotel in Taunton is a Grade II listed building steeped in history. With 44 bedrooms, two restaurants and facilities for weddings, parties and conferences, the hotel has been offering high standards of service to guests for over 60 years.

The Castle Hotel has a robust environmental policy covering hotel supplies through to energy management. To help meet these commitments, iESCO was appointed to investigate the feasibility of installing powerPerfector technology on the premises.

With the installation of a 175kVA powerPerfector unit, energy savings were estimated at 8%, reducing the total electricity consumption in addition to improving power factor and extending the lifespan of hotel equipment.

As site voltages reached as high as 245V, powerPerfector technology was able to significantly reduce the hotels running costs and carbon footprint. This substantial reduction resulted in savings that exceeded the estimations provided by iESCO

and Carbon Trust, with a 10% energy saving and more than £1,000 annual savings on top of the original figures. This difference had a positive effect on the payback time, reducing it to generate a surplus of savings during the loan repayment period.

iESCO's robust approach to engineering has been honed throughout the 5,600+ UK installations to date. The project was completed in an efficient and professional manner with supervision from iESCO's experienced project managers to ensure that hotel operations were not affected.

"I was extremely impressed with the professionalism and diligence of the whole team at iESCO, from the initial site evaluation through to the delivery and then final connection of the powerPerfector unit. The team worked tirelessly to minimise the disruption to the business and we are already seeing savings over and above the estimate that iESCO promised, therefore I would recommend this technology to anyone."

INFORMATION

Unit: **powerPerfector**

Unit size: **175kVA**

Install date: **April 2016**

Energy saving: **10%**

Annual kWh saving (kWh): **4,939**

Annual cost saving (£): **51,776**

