



## LOCATION

Holiday Inn Express hotels are renowned for offering great value accommodation for all business and leisure travellers. All 81 of this hotels en-suite rooms offer a power shower, hair-dryer and tea/coffee making facilities.



# CASE STUDY

## Holiday Inn Express, Perth, Scotland

Holiday Inn Express is part of the IHG (InterContinental Hotels Group PLC), their business and hotel brands span the world. As the IHG's fastest growing hotel brand, Holiday Inn Express are the first choice for the increasing number of travellers who need a simple, engaging place to rest. Somewhere to recharge and often, get a little work done. Their Perth site is no different with 81 en-suite hotel rooms, two conference rooms and a restaurant with bar area.

The hotel group believe that their customers hotel experience should be without hassle and complication. Security of supply to the hotel is of critical importance guaranteeing customer satisfaction and comfort during their stay.

The IHG's Holiday Inn Express hotel sites, keep it simple and smart, and a smart business deserves to have the best in class technology. iESCO's powerPerfector Voltage Power Optimisation (VPO) 'fit and forget' technology can be installed with absolute

confidence, where the integrity of supply will be improved, giving the business ultimate confidence that the site will be running as efficiently as possible. This efficiency not only saves on increasing electricity costs, but improves the lifespan of electrical equipment.

To keep up with the demand, reduce cost and carbon across their business IHG decided that iESCO's powerPerfector technology was the correct decision to meet their demand.

iESCO offer a four step cost and carbon saving process; appraisal, validation, implementation and verification. As part of this process a site appraisal was conducted at Holiday Inn Express, Perth.

Client/DNO Half-hourly billing meter and a real time energy monitoring system was fitted prior to the powerPerfector installation. Based on the site analysis from the monitoring the IHG dedicated Energy manager worked with the iESCO team and the decision was made to install powerPerfector optimiser unit.

powerPerfector units are hand built to order and have an enviable 100% reliability record in tens of thousands of installations worldwide.

The technology alters the incoming supply voltage at a fixed ratio, and is suitable for most buildings, but is well suited to the loads and demands of hotels.

Based on analysis and working alongside the Perth site Manager, iESCO's project manager identified the best installation time to cause no disruption to the business. Optimisation settings were set on the powerPerfector

### INFORMATION

Unit	<b>powerPerfector 175 kVA</b>
Saving	<b>6.85%</b>
Install date	<b>Jul 2019</b>
Annual kWh saving (kWh)*	<b>16,599</b>
Annual cost saving (£)*	<b>2,363</b>





## Holidays Inn Express, Perth, Scotland

optimiser from the logging of the IHG building's incoming voltage supply in order to maximise the savings. In one stroke the IHG's site cut energy consumption, reduced costs and emissions, and protected their equipment.

The chart below compares the energy consumed by the site 34 days pre and post the installation of a **powerPerfactor** unit. The step change in kWh can be clearly seen resulting in an energy saving of **6.85%**. The test demonstrates the direct relationship between energy used in kWh and voltage – as the voltage is lowered by the **powerPerfactor** unit from ~248V (mains) to ~225V (optimised voltages) the power drawn through the site billing meter reduces.

*“We are very satisfied so far with the **powerPerfactor** unit and can see the clear impact it is having on our consumption and energy bills. The process of installation was seamless and well managed from **iESCO**. There have been no issues with the unit and all we see is positive energy consumption decline year-on-year which is helping us as a business return bottom line profit to our stakeholders.*

*“We highly recommend investment in the unit and to work with **iESCO** to ensure every business maximises its reduction in energy consumption and their wider carbon footprint.”*

Craig Couper  
General Manager, Holiday Inn Express

### This reduction equates to approximately:

- 6.85% of its electrical energy
- 7,801 kg of carbon dioxide emissions
- 16,599 kWh of energy
- £2,363 of annual financial savings (using 13pence / kWh)

### Other benefits include:

- Reduction in maintenance costs on all electrical equipment
- Protection of equipment from power distortions such as spikes
- Reduction in harmonics
- Reduction in reactive power and in doing so, improves power factor

IHG are committed to delivering True Hospitality for everyone and care about people and communities they serve, and pride themselves on providing the highest quality of service this is synonymous with **iESCO's** dedicated service offering.

Other hotels with **powerPerfactor** technology installed include Hilton, Novotel, QHotels, Hallmark Hotels, Marstons Inns and Taverns to name a few. More information on these installations and many more installations are available on our website, or call us to discuss how **iESCO** can help save your business cost and carbon.

### 34 days pre and post installation

Ave In: 346.58 kWh per day  
Difference: -6.85 kWh (%)

