



power Perfactor

reliable energy saving and security

powerPerfactor installation at Novotel hotel reduces electrical usage by 9%



powerPerfactor VPO
Voltage Power Optimiser

Novotel London Bridge, located south of the River Thames, is a busy 182-room hotel with modern facilities. Part of the Accor Hotels Group, the 4-star hotel also offers meeting and conference rooms as well as a fitness centre and a wedding function suite accommodating up to 100 people.

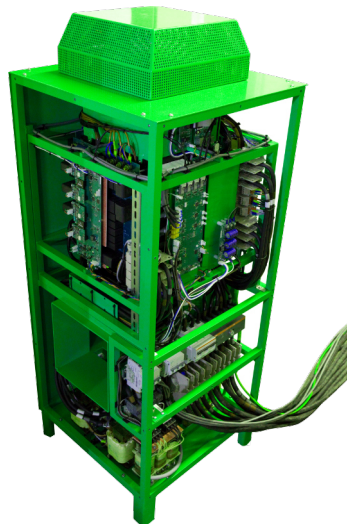
Located close to many of London's iconic sights, including the Shard, the Tate Modern and St. Paul's Cathedral, the hotel is committed to reducing its environmental impact and reducing costs.

The Accor Hotel Group's commitment to reducing energy consumption and limiting the environmental footprint of its hotels is clearly illustrated through its Planet 21 Programme, which specifically outlines the need to reduce energy consumption across its hotels.

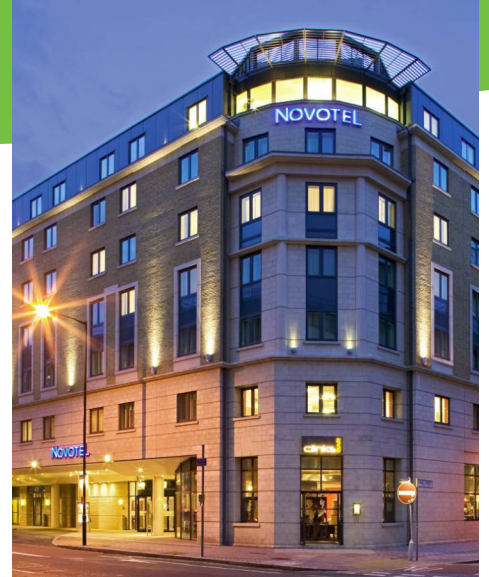
The powerPerfactor solution

To tackle energy consumption levels, we originally installed a 440kVa /630amp powerPerfactor unit at Novotel London Bridge, with a 9% optimisation setting.

Over the next two years, innovative technological improvements led to the development of powerPerfactor iQ, a cutting-edge electronic voltage control technology with the potential to maximise savings, reduce maintenance, increase site security, extend equipment life and limit capital replacement costs. In line with Accor Hotel Group's Planet 21 pledge, we upgraded the hotel's unit to a powerPerfactor iQ.



powerPerfactor iQ
Interactive Power Optimiser



Overview

Following the installation of a powerPerfactor unit at Novotel London Bridge, subsequent technological improvements resulted in an upgrade to a powerPerfactor iQ. The precise control technology resulted in existing powerPerfactor savings improving by up to 30%, equating to an annual financial saving of £12,715, a reduction in carbon dioxide emissions by 62 tonnes and a decrease of 116,058 kW of energy used.

9%

minimum
annual saving

£12,715

annual financial
saving

116,058

kW of energy
saved every year

62

tonnes of CO₂
saved every year

How much could you save?

Using your energy data, we can estimate your potential savings. Simply contact your energy supplier for three basic pieces of information, send them via our online form and we'll calculate the payback period and return on investment. Find out how at:

powerPerfactor.com





The results

Following the installation of the powerPerfector iQ, electricity consumption data was monitored by a Power Quality Analyser which found that existing savings had increased by up to 30% and the site was protected against harmful voltage dips, sags, intervals and swells. Any phase voltage imbalance was corrected, creating a highly stable voltage supply and improving the hotel's overall energy efficiency.

Additionally, precise output voltage control was provided across the whole site with the unit reacting to supply voltage changes within 250ms.

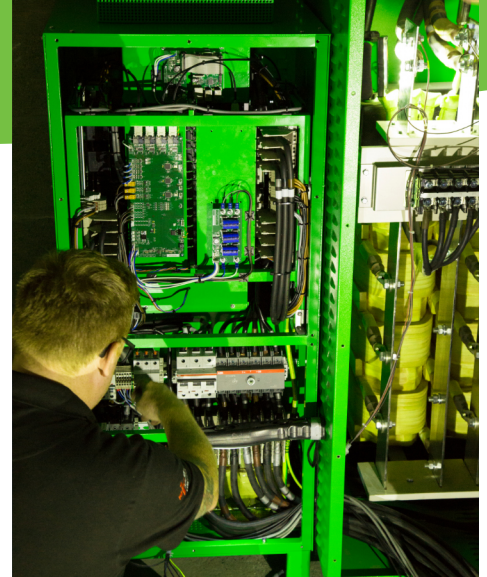
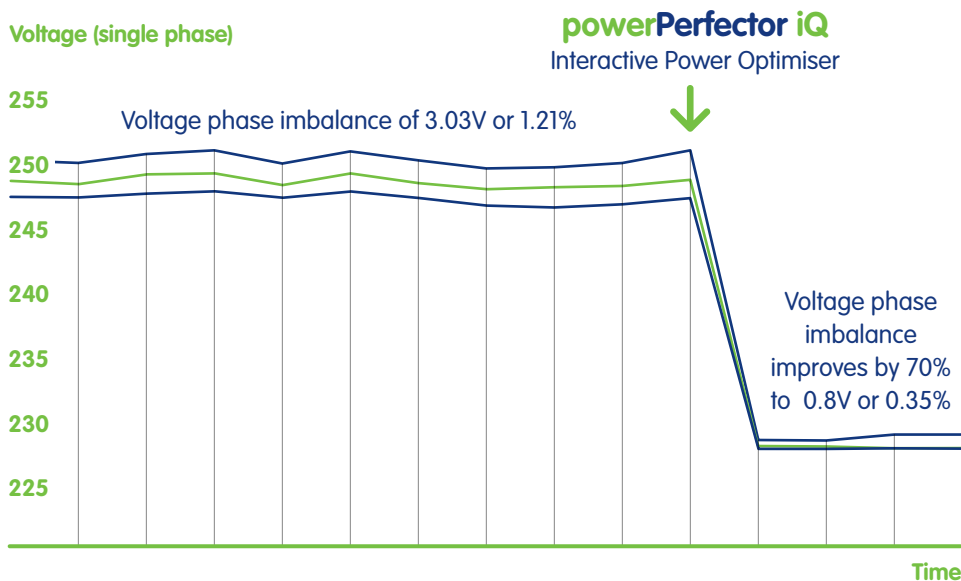
Equipment efficiency was maximised due to active 3 phase balancing whilst the upgrade enabled wi-fi remote monitoring and intelligent control. Power Quality Analyser data suggested that the average kWh consumption at site was 9% lower, following the installation of the powerPerfector iQ.

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Having made a commitment to reduce our energy consumption, the decision to install a powerPerfector was a good one and the iQ was an important upgrade for us to continue our promise of providing a service that our business, our clients and the environment would benefit from.

**Novotel Suites & Resorts,
Maintenance Manager**

What does that look like?



Installation

Clearly, the power supply to Novotel London Bridge is business-critical. Our experienced PRINCE2 qualified project management team coordinated the installation with our approved installers. Pre-works were completed without disruption to the site and the installation was arranged at an agreed time to minimise disruption to the hotel's guests.

Verification

Three months after the installation, we returned to review energy usage and provide a savings report. This demonstrated that we had met predicted savings and confirmed the return on investment was on track.

Who are powerPerfector?

We are the provider of Voltage Power Optimisation (VPO®) - the foundation of every energy efficiency programme.

powerPerfector is a trading name of:

Intelligent Energy Savings Co. Ltd.
Unit 12, Attercliffe Industrial Estate
Fell Road
Sheffield, S9 2AL

Talk to us today and find out how much you could save...

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