

CASE STUDY

BIS

Department for Business
Innovation & Skills

DEPARTMENT FOR BUSINESS INNOVATION & SKILLS

THE CLIENT

The Department for Business Innovation and Skills (BIS) is a ministerial department of the UK Government, responsible for economic growth through investment in skills and education.

THE CHALLENGE

BIS identified that not only was the incoming voltage to their office & IT centres high but that the buildings were also suffering from power quality issues, namely harmonic distortions, transients and power spikes.

Due to the success of previous installations into Government buildings Powerstar was contacted to determine if their voltage optimisation solution could be equally as effective for the BIS office facilities.

THE SOLUTION

After a site visit, voltage profile analysis and electrical load evaluation Powerstar recommended installing 7 voltage optimisation systems across the BIS building estates.

The Powerstar team worked with BIS throughout the implementation process to ensure the correct engineering solution was adopted for each of the applications, and remained flexible so that installations could occur at a time to minimise disruption to business operation.

The energy consumption savings from the 7 installations averaged at 13.7% per year, with savings ranging from 6.2% to 24.7%.

As a result of the installations, BIS saw significant improvement in their power quality as Powerstar not only reduced the voltage, but also cleaned and conditioned the power supply to suppress harmonics and transients along with providing protection against some power

KEY FIGURES

- Annual consumption savings: **13.7%**
- Annual financial savings: **£4,357**
- Annual emission savings: **29 tonnes**



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