



Complimentary Solutions: LEDs and powerPerfector

Environmental Professionals within public and private sector organisations continue to favour the uptake of high efficiency lighting by retrofitting LEDs – outperforming all other sectors (74% of commissioned projects included high efficiency lighting: source Energy Efficiency Trends April 2015).

Although LEDs are a proven and successful energy efficiency investment should this investment be protected and are there further ways to add value to LED projects?

Client experience:

One such public sector organisation, Greater Manchester Police Authority, is realising the benefits of the combination of a powerPerfected supply and protecting their LEDs.

“Having site voltages regulated and protected by Voltage Optimisation provides us with confidence that our investments in LED lighting will be sound. From research into LED lighting technologies it appears that over voltage can play a part in the early failure of LEDs and thus negate the capital investment in lighting replacement projects. An example is one of our Divisional Headquarters in Manchester (with Voltage Power Optimisation® fitted) where all the corridor lights were

exchanged for LED panels in November 2011 and to this day they are all still fully operational without maintenance.”

Robert Hayes, Sustainability & Facilities Manager.

The UK is leading the way in energy efficiency, investing heavily into micro-generation, including wind farms, solar, and biomass – this is commendable. However, the introduction of these renewable sources poses new challenges to the UK’s electricity supply causing power quality to diminish. Increasing voltage volatility, common transients, harmonics and frequency variation across the UK is risking the billions we have invested in energy savings technologies by stressing operational equipment. Energy resilience is becoming a growing concern.

Supplier experience:

A number of leading LED suppliers have recognised the benefits of protecting their lights by having a powerPerfector installed on the incoming supply. In an increasing number of cases LED suppliers are willing to offer clients an extended product warranty if their equipment has been provided with a clean and reliable power supply from powerPerfectors’ Voltage Power Optimisation® technology.

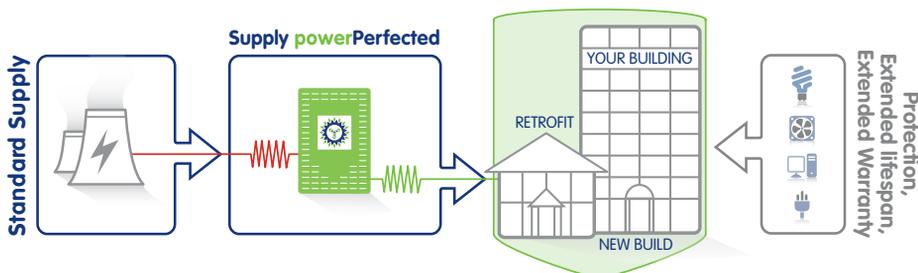
Robert Hayes recognises the considerable benefits of combining these two proven energy conservation measures:

“The savings are great and absolutely necessary in the current climate, but for GMP as an emergency service, having the extra protection that a powerPerfector unit affords is priceless”

“In addition to cleaning the power, a number of our dynamic powerPerfector PLUS units have recorded under voltage and had to boost voltage back up to 220V to keep the site operational. This dual functionality of providing boost as well as optimisation is extremely valuable and gives us the additional security we need to protect our critical operations at Greater Manchester Police”

GMP have 23 powerPerfectors installed protecting their commitment to Public Services. Other Public Sector organisations that are protecting their buildings and saving money include Schools, Hospitals, Fire and Rescue Services and Prisons. Over 180 Councils and over 20 Government agencies are also benefiting from powerPerfector technology.

Your estate’s operation relies on its power supply. The dynamic powerPerfector Plus allows you to eliminate poor supply quality risk with an average 30% ROI. Alternatively finance is available with no up front cost.



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Don't just take powerPerfector's word for it...



"The powerPerfector installations were a quick, easy win that has made a significant contribution to our overall carbon targets. We were so impressed with the powerPerfector team, we asked for their advice on a range of other technologies."

Stuart Parker

EA Technology independently analysed powerPerfector technology when it was first brought to the UK in 2000. From their investigation, it was clear that powerPerfector was distinctly different to conventional transformer technology.



"[We] have come across autotransformers for energy saving, however by comparison the low losses and additional features make the powerPerfector unit unique."

Russell Benstead



Environment Agency

"Whilst powerPerfector will enable us to reduce our electricity costs by 13%, the most significant benefit comes from protecting our electronic infrastructure and assets. Land Registry holds the world's largest property database and guarantees ownership of £1300 billion of property – data is our business and data protection is critical to our efficient operation."

Martin Illingworth



"Other benefits contribute to creating a more efficient, robust and reliable electrical supply for the site, and provide further financial benefits on top of the reduced energy costs. We were suffering from voltage spikes (transients) which on numerous occasions damaged the lift controls causing them to stop operating. In the 1.5 years following the powerPerfector installation there has been no repeat of the issue. We are told that spikes are on the increase due to more switching on the grid so this level of protection is extremely valuable."

Kim Pivett



See over 100 testimonials on powerperfector technology at: www.powerperfector.com/Testimonials