



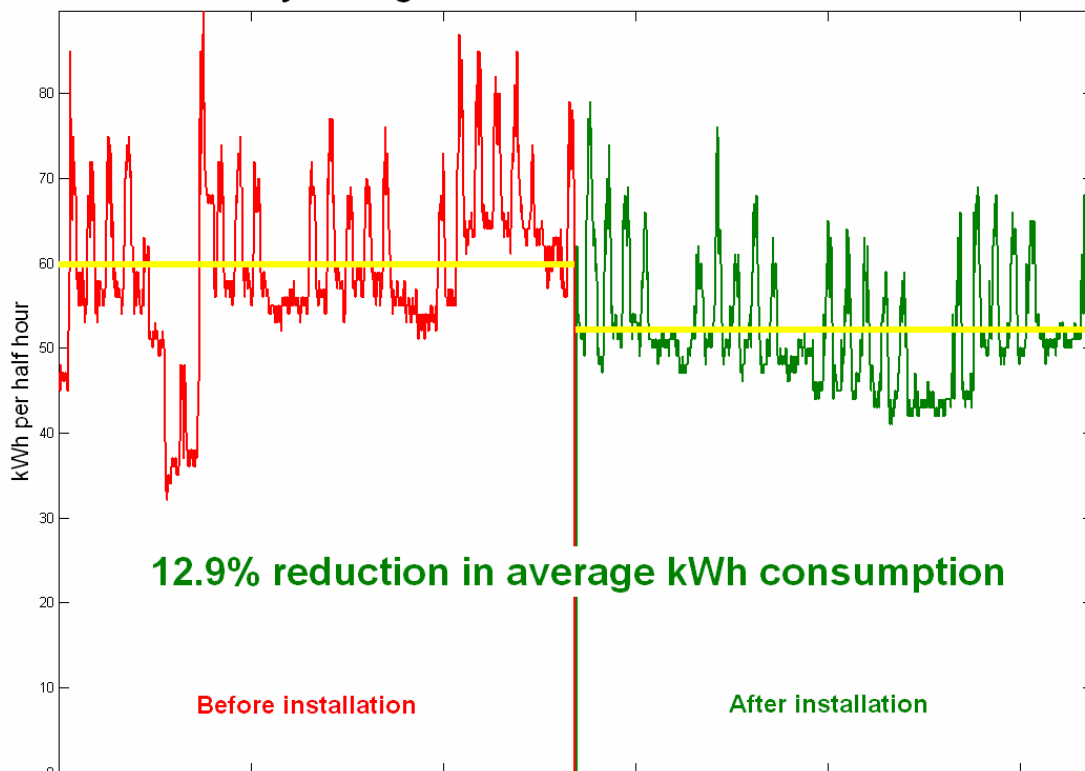
Tate Gallery Store Confidential Location South of the Thames, London

Analysis of half-hourly kWh data following *powerPerfector* installation

Report January 2007

The Tate storage facility holds approximately 95% of the assets of the **Tate Gallery**, worth billions of pounds. As a critical site it has a sophisticated climate controlled environment to protect our national treasures. The focus on protection and best practice is evident in gaining access to the site and we were pleased to add extra security to the supply and site, along with the benefits of energy and cost saving with the installation of a 210kVA *powerPerfector* unit 24th July 2006. This has resulted in a reduction in average kWh consumption of over **12.9%**. The following is an analysis of half-hourly kWh consumption data from the site.

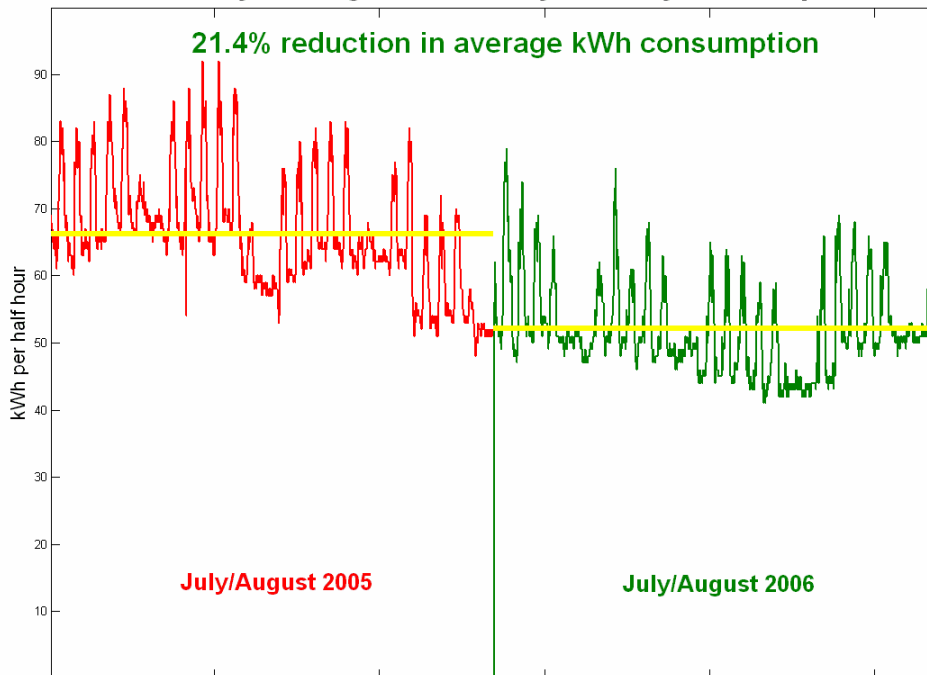
Tate Gallery Storage - 1 month before and after installation



An immediate reduction in electricity consumption was observed following installation of the *powerPerfector*. During the month after installation, average half-hourly consumption was down **12.9%** on the preceding month from 59.7kWh to 51.9kWh. The figure below shows the same period compared to the previous year, which shows a reduction of **21.4%**.

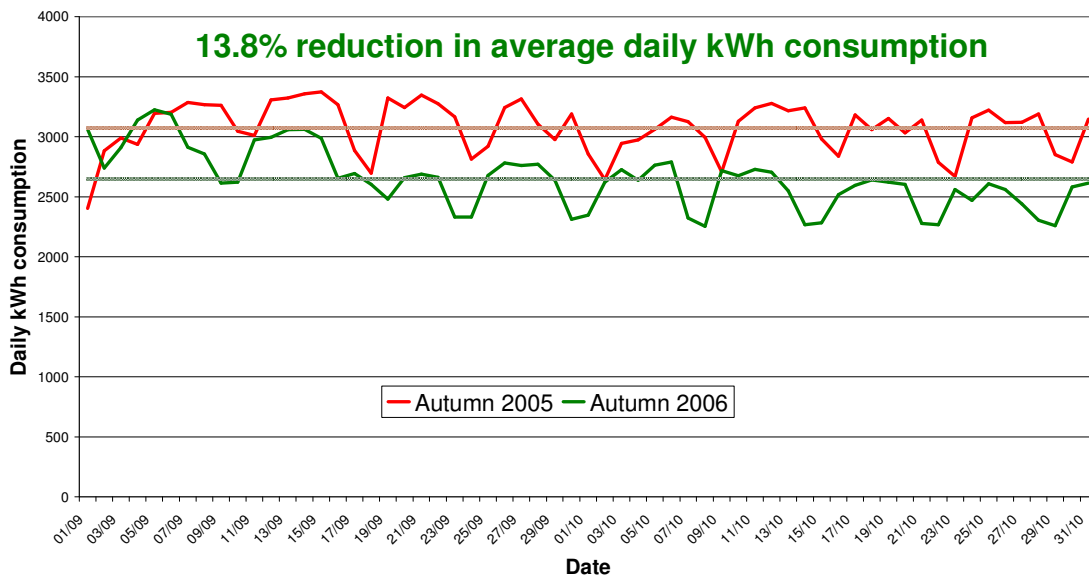


Tate Gallery Storage - 1 month year-on-year comparison



In July and August, the consumption is subject to some variation from week-to-week, so in order to confirm this result we consider the savings in a wider context. The figure below shows the savings from autumn of 2006 compared to the same period the previous year. During this stable period of consumption, there has been a saving of **13.8%**.

Tate Gallery Storage - year-on-year comparison



Conclusion

The installed unit is protecting the entire electronic infrastructure on site from transients and reducing both the cost and carbon emissions in line with expectations.