

pP iQ Case Study



Costco Wholesale Derby, Derbyshire.

Operating since 1983, Costco is an international chain of membership only warehouses. Costco now has 729 warehouses worldwide with a growing membership base. Serving individual and trade customers, Costco offers choice food and drink along with household goods and luxury items. With 28 of these warehouses in the UK and a large amount of energy required on a daily basis, Costco began installing **powerPerfect** technology, and has installed 31 units since 2012*. The Derbyshire warehouse has been the first to be upgraded to the **powerPerfect iQ**.

In order to provide energy, cost and carbon savings, a standard **powerPerfect** unit was installed in February 2013. The advancement in **powerPerfect** technology since then has resulted in a retro-fit upgrade called the **powerPerfect iQ** which

*some sites have more than one supply

transforms a standard fixed unit into a dynamic unit. This new development allows our customers to have the most advanced electronic voltage control technology available in the market.

With a super-fast reaction to supply voltage changes, the **powerPerfect iQ** provides precise and stable voltage control across the site, regardless of site conditions and voltage fluctuations. This control benefits site equipment, protecting vital equipment and ensuring maximum equipment efficiency through active 3 phase balancing.

Proving to be an instant success, the retro-fit installation took place in August 2016 and has resulted in an improvement of existing unit performance, taking the 8% existing savings to 13% - a near 60% jump in savings!



Location

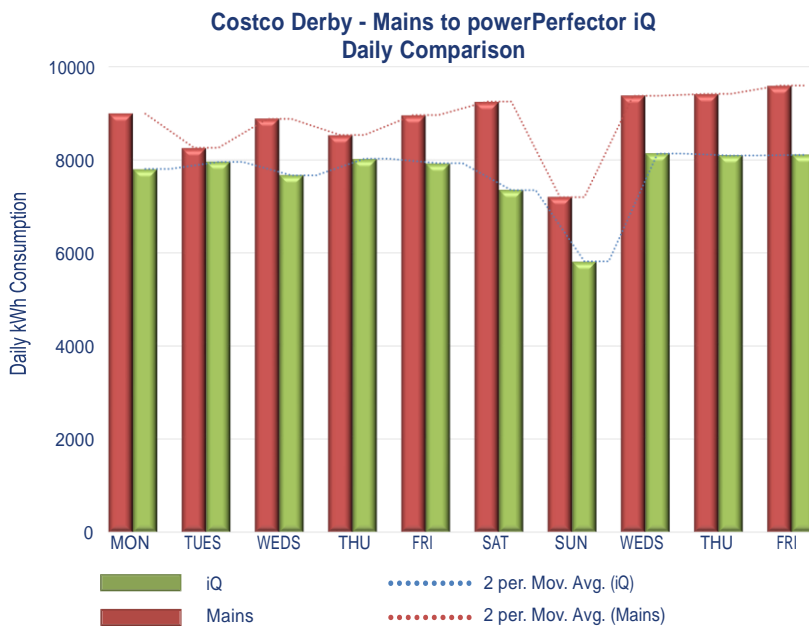
Costco Wholesale warehouses can be found around the world, Derby is one of 28 warehouses in the UK. Based near Pride Park and Wyvern Retail Park, the Derby store caters to both individual and trade customers throughout the week.

For more information on any of our case studies, please contact:
+44 (0)207 164 2271
enquiries@powerperfector.com

Information

Unit: **powerPerfect iQ**
Unit size: 690 kVA
Install date: August-2016
Annual kWh saving (kWh)*: 122,110
Annual cost saving (£)*: 10,990

* Additional savings



Date of testing: 29/11/2016 - 23/12/2016

Total iQ: 76,906 kWh

Total mains: 88,471 kWh

Difference: 11,565 kWh (13.7%)