

Case Study – 135 Castlereagh St. Sydney (Piccadilly Centre)

135 Castlereagh is a 32 story category A office building in the heart of the Sydney CBD. BallTech was installed on one high load chiller and one low load chiller so that all chiller operations were covered by the BallTech system. This building has fully managed sub metering on all major electrical boards. Subsequently accurate and detailed records of power consumption over the past 3 years have been fully recorded. The BallTech installation was commissioned at the end of December 2008. No other changes were made to plant as the chiller plant already had a high end DDC system installed and fully optimized. It should be noted that average mean temperatures have been very similar for the corresponding months. Results for the first six month period are as follows:

135 Castlereagh St Sydney.

Plant room total kW/h consumption

	Dec	Jan	Feb	Mar	April	May	June	Total (6 months)
2007	72,430	109,966	110,863	111,299	74,402	79,630	19,160	505,320
2008	73,271	110,308	122,826	111,298	50,513	31,436	31,581	457,962
2009		94,960	82,309	92,388	47,844	25,098	9,765	352,364

BallTech installed and commissioned at the end of December 2008

Operational savings of \$18k for the first 6 months compared to 2007

Statistics	Jan	Feb	Mar	Apr	May	Jun
Mean maximum temperature (°C) for year 2007	26	24.8	25.1	21.5	20.5	18.6
Mean maximum temperature (°C) for year 2008	26.4	26	26.3	23	22.4	16.8
Mean maximum temperature (°C) for year 2009	27.6	25.7	25.4	22.8	20.7	

Notes: *BallTech installed and commissioned at the end of December 2008
No other plant optimization works had been carried out to the plant besides the introduction of BallTech
Data supplied by client from onsite permanent submetering*