



Crowne Plaza

Chiller replacement and Building Management System (BMS) improvements

Quick stats

Client

Crowne Plaza – Canberra City

Works completed

- Chiller replacement
- Building Management System (BMS) (2013)

Results:

Achieved electricity consumption savings (approx) 821,kWh per year **Electricity cost savings (approx) \$124,900 per year**

Savings are based on the different in full site performance 12 months prior to the chiller installation and 6 months preceding the BMS improvements works.

Background

An energy audit was undertaken at the Crowne Plaza Hotel in Canberra which identified a number of projects including:

- replacing one of the sites aged chillers
- improvements to the Building Management System (BMS).

Proposals for suggested works were produced which included design, project management and installation of new equipment. Once accepted, works were carried out.

Project scope

The chiller replacement project consisted of replacing one of the sites ageing chillers with a high efficiency variable speed PowerPax chiller. The works also included changes and optimisation of the chillers systems control logic, to deliver additional savings.

The BMS improvements project consisted of mechanical plant optimisation. The project scope included a comprehensive review of the systems control logic in order to improve the efficiency where possible. This included the installation of VSD's (Variable Speed Drive) on selected equipment.

Highlights

The project delivered approximately 821,742 kWh electricity savings annually, which equates to a cost saving of over \$124,900 per year.

The Crowne Plaza has achieved significant maintenance savings and some gas savings in addition to this.

The hotel is currently averaging 35% less electricity consumption compared with before commencing the energy audit.

What more information? We're here to help

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