



CASE STUDY

HVAC upgrade helps ALDI control costs

Outcomes

✓ HVAC energy consumption reduced by

38%

✓ Total energy cost to store reduced by

17%

The Client

With over 10,000 store locations around the globe, ALDI has earned a global reputation as one of the world's best-known and most reputable retailers.

Since it was established in 2001, ALDI's Australian arm has continued to expand and it now has more than 500 stores across the country.

By 2015 the oldest of these stores were starting to show their age and it became clear that their HVAC systems were in need of an upgrade. To do so, ALDI (NSW Region) called on the services of Grosvenor, who have been servicing their HVAC systems ever since.

What We Did

Our initial audit process identified the fact that, while the aging plant and equipment was in reasonable condition, there was a legacy issue associated with the installed control systems.

Our Design and Maintenance teams collaborated to develop a suitable HVAC control concept, which was initially offered to ALDI as a trial. **The trial proved to be a huge success, reducing HVAC energy consumption by 38% (which equated to a 17% overall reduction in the total energy per store).** This success saw the approval of an expanded trial in 2016/2017 to include a further 15 first generation ALDI NSW retail stores.

Every store achieved similar energy savings, and when averaged across all 15 stores, the payback time was

calculated as less than 16 months. In addition, conditions in stores were made more comfortable for staff and customers, and there was a reduction in service calls.

Our **'simple, budget conscious & energy focused solution'** was exactly what ALDI had been hoping for. Starting with an 'off the shelf' product, our in-house engineering team achieved the desired result by combining it with practical know-how and clever programming.

Energy savings were independently verified, and the project was submitted for the NECA 2018 Excellence Awards, where it was judged as 'Best projects in the Category 2 Energy Efficiency and Environment Award' for NSW and Nationally.

CLIENT

ALDI Retail Stores, NSW

PROJECT

Air Conditioning Controls Upgrade

KEY CHALLENGES

- To design a simple HVAC system
- To minimise capital cost
- To provide a future proof solution
- Scalable product selection
- Maintainability

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