

case study



LANDCENTRE takes its environmental responsibilities seriously.

As part of the QLD Government's commitment to 20% reduction in Energy and Water by 2010, the Dept of Public Works chose LANDCENTRE for a sustainability facelift. With South East QLD on severe water restrictions, the initial focus was on making the building as water efficient as possible. However the project became a great opportunity to focus on energy too.

Honeywell

Committed to reducing its environmental impact

The LANDCENTRE facility was built in 1986 and is the home to the Dept of Natural Water and Resources. It has approximately 14200 m² of lettable space.

The goals for improving the sustainability of the building include:

- improve water and energy consumption
- reduce GHG emissions
- improve indoor air quality
- reduce maintenance costs

Meeting the Green Challenge

Honeywell completed an Energy Study on the building which included baselining the current performance. It was discovered that the building was performing below standard with lighting at 54kWh/m² and HVAC at 103kWh/m². The building was designed to operate at 36kWh/m² and 38kWh/m² respectively.

Key areas were targeted for improvements. These included the lighting, the HVAC plant and control system, and water use systems.



Lighting upgrades from twin T8 to single T8 with reflector along with automatic control are expected to save 490,000kWh/annum.

Changes to the HVAC plant and controls are expected to save 300,000kWh/annum.

Introducing water saving measures (flow restrictors, rain water harvesting etc) are expected to save 5,500kL/annum.

The project works have been recently completed. Honeywell has guaranteed the savings over a 7 year period. The building is expected to sustain a 15% improvement in energy consumption and 24% improvement in water consumption over the baseline levels. This equates to an annual saving of 844 tonnes of CO₂ annually.