

ALTONA GATE – REDUCING WASTE IS FAN-TASTIC CASE STUDY

Over 70% of waste diverted to recycling

Altona Gate Shopping Centre has increased the amount of waste it diverts from landfill to be recycled from 30% up to 74%.

How did they do it?

This was achieved through a dedicated program, working with its tenants and Veolia, the waste services provider.

As well as improving its own processes and infrastructure, Altona Gate engaged Veolia to work with their individual retailers within the centre to educate them about waste reduction and to identify ways that they could improve their practices. Training was provided and regular updates were provided to inform and assist staff and retailers in improving practices and understanding the benefits.

What were the benefits?

- cardboard and food waste doesn't end up in landfill
- cost savings through reduced landfill charges
- reduction in greenhouse gas emissions
- increased awareness of sustainability within the Centre

Variable speed car park exhaust fans – over 40% energy savings

Installation of two variable speed drives on the Centre's car park exhaust fans is estimated to reduce greenhouse gas emissions by over 350 tonnes per year.

How does this system work?

The car park exhaust fans currently operate at full speed for around 100 hours per week. A variable speed drive adjusts the speed of the fan according to the volume of air that needs to be exhausted. These fans are controlled via carbon monoxide sensors.

Reducing the speed of the fan also reduces the amount of energy required to run it.

How much did they save?

It is expected that this project will result in annual savings of:

- 262,000 kWh
- 351 tonnes of greenhouse gas emissions
- over \$30,000 in electricity costs

Can I do this at my site?

Variable speed drives (or variable frequency drives) can be installed on many fans and pumps in different applications. Speak to your electrician to find out more.



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Almost 80% reduction in lighting energy through LEDs

The Centre has installed 215 energy efficient LED lamps to replace existing metal halide and compact fluorescent lamps. Estimated savings include:

- 177,000 kWh per year
- 232 tonnes of greenhouse gas emissions
- over \$20,000 per year (including avoided lamp replacement and disposal costs)

Tips from Altona Gate

When planning and implementing resource efficiency projects, you should:

- trial products before committing to purchases
- consider every aspect of a product, especially quality– don't just pick the cheapest
- engage your work force – invest in training and education, communicate the benefits and achievements and provide ongoing encouragement and reinforcement



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