

Environmental Solution Award recognises waste extraction loop

Donaldson Australasia says a 2006 Endeavour Award for Environmental Solution of the Year for one of its clients is first hand proof that recycling can be more than just a benefit for the planet – it can also be a profitable entity.

Penfold-Buscombe was highly commended in this competitive category of the Manufacturers' Monthly awards as part of a triumvirate including Donaldson and Visy Recycling that engineered what is arguably the Australian printing industry's first large scale recycling loop.

Donaldson Australasia's Industrial Air Filter National Manager, Mr Bill Halbert, says the Highly Commended Award, recognises the length to which the three companies went to ensure Penfold's upgrade didn't just collect waste, it made recycling a profitable concern.

"Our consulting engineer, Mr Dominique Ollitrault, had to consider that Penfold was not just making a periodic upgrade to its waste handling systems when we began the project," said Mr Halbert. "He was mindful that it had to be efficient in its energy consumption, needed to align with the company's excellent OH&S standards, and was able to handle all matter of paper-based waste from a large-scale print and bind operation.

"The collaboration between our organisation, Penfold-Buscombe and Visy Recycling has proven to be a telling move all the way along the waste stream. As a dust and materials handling specialist across many industries, Donaldson

Australasia is proud to be associated with two progressive organisations that culminated in Penfold-Buscombe's prestigious award for environmental excellence," said Mr Halbert.

Donaldson Australasia provided the vital waste handling system and engineering to facilitate this win/win recycling. Dominique Ollitrault designed and fitted the system as part of the printer's routine upgrade to meet rapid expansion in business and maintain environmental standards. Visy Recycling subsidised the project to ensure an uninterrupted supply line of raw material it can purchase for its dedicated recycling plants.

Donaldson Australasia's Mr Ollitrault says Penfold-Buscombe originally committed to upgrade this facility at about this time not just to preserve valuable resources but to maintain a very clean working environment for its employees.

"The new waste paper handling system was installed to replace an existing system which was about to encounter an increasing workload," said Mr Ollitrault. "What is now a 24/7 operation creating off cuts from books and magazines that run off stitching lines and folding processes creates waste from general printing, cutting and binding.

"The idea was to stay one step ahead of any blockages and machine downtime so as to avoid potential labour allocation to pick up mess or empty full bins, plus it ensures workers don't face a dusty environment near the compactor. Our solution was to install a system comprising a separator AMSP35,

rotary valve RV750, two paper trim fans (1 x 75kW, 1 x 30kW), Dalumatic DLM 3/5/15 dust collector and a 55 kW clean air fan. The system has been designed to allow an extra capacity of volume (30%) for growth and future additions to the shop floor. It easily copes with output from one of the fastest growers in the printing industry, yet currently it only needs about 2/3 capacity to handle all the tasks."

This new solution has improved productivity by about 20% and potential downtime is much less of a concern compared to what it was before.

