

# CaseStudy

## Small Investment leads to Serious Energy Savings

**Customer:** Closures Manufacturing Facility (1)

**Project:** Energy Cost Savings

**Working through our free energy saving and air leak survey, we helped our customer reduce his compressed air consumption with energy saving products, which are showing big savings and improved noise reduction in certain production areas of up to 30%.**

### CHALLENGE

Aware that our client operates a “continuous improvement plan”, Worldwide Engineering worked closely with the CIP manager on-site to identify actions to meet their energy savings objectives for 2008, and come up with a plan to help realise and exceed them.

Through our partnership with the world’s largest pneumatics manufacturer we conducted a free plant air usage survey over a four week period, where we identified many areas in their processes where they were wasting pneumatic energy on the system, and were able to pinpoint various parts of the production process where they had major air leaks.

We presented our report highlighting the areas where we could help in terms of correcting the leaks and reducing air consumption, while still maintaining the production output. Consequently, the customer could also make serious energy savings in their compressor usage by making a small investment in upgrading some of the pneumatic valves and fittings, with a pay-back time of between 6 to 9 months.

### OUTCOME

Our proposal was signed off and the project was implemented within a month, with the customer already beginning to see real benefits and a reduction in their air usage.

This project made such a significant impact that our client has rolled this model out to other areas of their production system: working together with our customer we are continuously looking to see where we can add value, using our expertise and knowledge in recommending new products that will save energy without compromising the production output.

One example is that wasted pneumatic energy can create noise. After recommending noise reducing nozzles in their moulding plant, the customer has ordered new blow nozzles for this part of the production and, as well as energy savings, the production people are very happy as we have reduced the noise level in some areas by up to 30%.

This is a major benefit to this customer as the factory is historically very noisy: it is also a fundamentally safer approach to prevention of hearing damage in a workplace.

We are now at stage three in this project, where we have recommended energy saving two port valves for the plastics department, and as a result have received a contract to supply these over a two month period.

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