

HEAVY INDUSTRY/ MANUFACTURING

The team at BCW Carbon and Energy have been assisting a large energy intensive manufacturer reduce their energy cost and comply with EEO legislation for more than 5 years by implementing an Energy Management Program. We have worked closely with the client's process engineers, project engineers, operations and maintenance staff, and management to identify, investigate and implement many cost effective energy efficiency opportunities.

Through a range of operational changes, control system changes, and equipment upgrades, significant savings have been achieved. The direct energy savings from implemented projects total more than \$900,000 per annum and more than 15,000 tonnes pa of carbon emissions.

Implemented projects have included a range of technologies including:

- Cooling system control improvement and cooling tower upgrades
- Fume extraction control improvement
- Variable Speed Drive installations on fans and pumps
- Improvement of yield
- Furnace control improvement
- Improved options for equipment shut down through control system programming and operational changes
- Reduced pilot flame gas consumption
- Bag house upgrade

Assistance has been provided to apply for and win Government grant funding for larger capital projects, and to create revenue from Energy Saving Certificates (ESC) under the NSW Government Energy Saving Scheme.

There are numerous opportunities which are being investigated and others that will be reconsidered in the future as circumstances change.

Our client has benefited from an improved bottom line, with additional savings implemented in each year of the Energy Management Program. Over the five years the company has saved over \$4M in energy cost, including carbon tax savings and ESC revenue.

