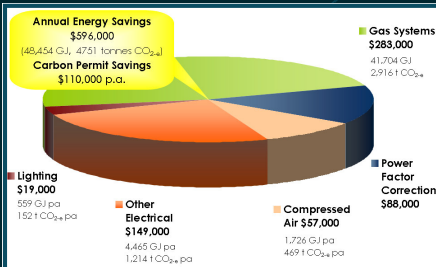


Jim Kelty, Senior Consultant



Jim specialises in energy auditing, management and procurement. In the last 18 months Jim has conducted Energy Efficiency Opportunity

Assessments for the Manildra Group and Bradken, Energy Saving Action Plans for Donaldson Coal and Moolarben Coal, and Level 2 or 3 energy audits for Rockdale Beef, Casella Wines and De Bortoli Wines. Total energy saving opportunities identified with a payback period of less than 4 years for these 7 customers alone have exceeded \$5 million p.a.



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Resource Efficiency

Case Study: Carbon Footprint Reduction in Preparation for CPRS

Client: A Mining Components Manufacturer

Background Information

The mining industry and mining service companies are large energy users and producers. The National Greenhouse Reporting Scheme (NGERS) already requires such companies to report greenhouse gas emissions. This data will be used to calculate liability under the proposed Carbon Pollution Reduction Scheme (CPRS), scheduled to be introduced in 2010.

The CPRS will mandate that every organisation with a facility emitting 25 kilotonnes or more of CO₂-e per year must report and purchase a carbon pollution permit for every tonne of CO₂-e it releases. The Scheme will directly affect around 1,000 facilities, including most electricity generators, mining companies, property trusts and other ASX 200 companies.

Project Summary

Advitech recently assisted a large emitter reduce energy usage in preparation for the CPRS. The facility used substantial amounts of energy for the production of iron and steel components for the mineral processing market in Australia and overseas. The review identified a variety of opportunities to reduce the site's carbon footprint and associated energy costs including the following:

- Combustion tuning
- Insulation repairs
- Fuel substitution
- Tariff restructure
- Compressed air leak survey and repair
- Equipment upgrades
- Operational changes
- Cultural changes
- Lighting upgrades

Project Outcomes

Advitech helped its client identify substantial opportunities to reduce site operating costs and carbon emissions. A summary of results is shown in graph at left. The assessment identified ways to reduce the site's energy use by up to 25%, resulting in an annual energy savings of \$596,000. Consider - with an estimated carbon price of \$23 per tonne, the permit savings alone will total \$110,000 p.a.

What Should Similar Organisations Be Doing?

Early action will be rewarded. Advitech can help companies prepare for the introduction of the CPRS by reducing the number of permits that a business will be required to surrender to the government, and for smaller businesses, the associated carbon cost passed on by your energy supplier.

For more information, contact **Jim Kelty** at **Advitech** on 02 4961 6544 or email jim.kelty@advitech.com.au.