

Hi James

The NSW Government recently released its four year [Energy Efficiency Action Plan](#), outlining strategies to place downward pressure on energy prices through a more open and competitive market-based delivery of energy efficiency services. This plan includes energy efficiency strategies for businesses, homes and government agencies across the state.

For you, this means:

- easier access to financial incentives through the [Energy Savings Scheme](#) and [Environmental Upgrade Agreements](#)
- new energy efficiency tools and information for key sectors and technologies
- hands-on training courses.

The Energy Saver team is here to help you access the benefits of this plan – please [contact us](#) to learn how you can take part.

Cogeneration feasibility guide launched

Cogeneration, otherwise known as combined heat and power (CHP), is the simultaneous production of electricity and heat from a single fuel source. Cogeneration systems can reduce energy costs and greenhouse gas emissions by up to 60 per cent when operating during peak times.

The *Energy Saver Cogeneration feasibility guide* provides independent and credible information about the feasibility of cogeneration and trigeneration systems. The guide provides detailed, user-friendly information that will help you to investigate the potential of cogeneration or trigeneration for a site or facility.

The Minister for Environment and Heritage, the Hon Robyn Parker, will launch the Cogeneration feasibility guide at 8.30 am on Thursday 21 November 2013 at The Mint, Macquarie Street, Sydney. The launch will be followed by a cogeneration training session at 10.00 am. Please register your interest in attending the [cogeneration launch](#) or the [training session](#). You can also [register to receive a copy of](#)

EXPERT TIP

Cogeneration is a broad and complex area, however there are two key questions to consider when evaluating feasibility.

Does the site have long operating hours with high rates of energy utilisation?

Are there large differences between gas (or other fuel) and electricity prices?

These considerations mean that good design is important, including selecting the correct system size and the effective selection of fuel types.

Chris Fox
BECA

Cool energy savings for cold storage warehouse

Installing computer-controlled variable speed drives on refrigeration plant compressors enabled Swire Cold Storage's warehouse in Lurnea, Sydney, to reduce its energy consumption by more than 15 per cent during the cooler months. The project was led by Sam Czyczelis who was the General Manager for Engineering Services at the time.

Swire Cold Storage is Australia's leading refrigerated warehouse provider, with a fleet of 220-plus vehicles and 17 facilities occupying 73 million cubic feet with 326,000 pallet spaces.



'Our Lurnea warehouse is relatively new, built in stages between 2005 and 2009', says Czyczelis. 'And while it was equipped with energy efficient compressors when it was being built, new technologies had become available in the previous two years that could further improve their performance.'

Czyczelis found out about new variable speed drive technology that had the potential to improve the energy efficiency of the large rotary screw compressors at the company's Lurnea warehouse. The warehouse provides blast-freezing services and refrigerated warehousing to some of the largest vegetable processors and poultry producers in Australia.

'Our large capacity rotary screw compressors work very efficiently during the warmer months but don't perform at their best between April and September, when they are required to move lower volumes of gas at low load periods. The variable speed drives have resolved this problem and will pay for themselves in just over four-and-a-half years.'

'The Energy Saver audit highlighted the opportunity for sensible capital investment,' says Czyczelis. 'It helped to reduce our electricity consumption by 786 megawatt hours annually.'

'Following on from the success of the Lurnea project, we will be looking to implement similar initiatives in some of our other warehouses in Australia. This initiative will enable us to reduce the Lurnea plant's carbon emissions by a further 840 tonnes per annum – a win-win situation for our company and the community.'

Contact Energy Saver

To find out how your organisation can save energy, visit the [Energy Saver website](#), email [Energy Saver](mailto:energysaver@environment.nsw.gov.au) at energysaver@environment.nsw.gov.au or phone 02 8837 6000.

With electricity prices increasing, more and more businesses are realising the benefits of energy efficiency. [Energy Saver](#) offers technology advice, training and assistance to access energy efficiency finance.



We welcome your [feedback and suggestions](#) for future editions.

