

**Submission
No 3**

COGENERATION AND TRIGENERATION IN NEW SOUTH WALES

Organisation: Home Loan Experts
Name: Mr Otto Dargan
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Re: Enquiry into cogeneration and trigeneration in New South Wales

Home Loan Experts welcomes the enquiry into the use of cogeneration and trigeneration technology in NSW.

Already widely used in Australia, these systems are flexible in terms of design and are being increasingly being incorporated into residential and non-residential buildings by both property owners and developers.

While NSW's EPA (Environment Protection Authority) has mentioned how cogeneration can harm the air quality (due to the emission of large amounts of nitrogen oxides), the Australian premier authority on clean energy, Clean Energy Council, has already approved both cogeneration and trigeneration technologies.

There are already cases where they have been used or will be used to great effect:

- In 2008, the wood products manufacturing giant, Big River Timbers, used cogeneration technology to create a plant where they used otherwise waste wood chips to generate power. This had two benefits: it reduced the need to stockpile and dispose of large amounts of waste, and they could produce up to 400 kilowatts of clean energy.
- One of Australia's largest meat production companies, Midfields Meats International, uses cogeneration technology to produce up to 1.5 megawatts which reduces carbon dioxide emissions by 9,600 tonnes every year.
- An ambitious plan for Sydney's CBD involving the use of trigeneration technology could produce 360 megawatts of electricity by 2030 which could effectively reduce carbon dioxide emissions by 540 million tonnes between 20 years.

Recently in our own locale, the Maitland City Bowls, Sports and Recreation Club implemented such a system which is expected to reduce carbon emissions by 500 tonnes, saving \$50,000 on energy costs per year.

As a forward-looking organisation, we feel that cogeneration and trigeneration technologies are here to stay. While they may not be the perfect solution, we have to remember that there is no such thing. Considering the benefits versus the costs, we think that we should adopt these technologies, while working on how to mitigate any adverse effects if necessary.

We thank the committee for allowing us this opportunity to offer information and share our opinions on such a serious matter.

We look forward to hearing the outcome of this enquiry.

Regards,
Otto Dargan

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