



GRANT PIPER

OBJECT

Submission No: 168640

Organisation:	<i>Uarbry Tongy Lane Alliance Inc.</i>	Key issues: <i>Socioeconomic</i>
Location:	<i>New South Wales 2843</i>	
Submitter Type:	<i>I am a member of the community with a view about the proposed development</i>	
Attachment:		

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- 1. The need for a gas turbine indicates the failure of VRE to provide reliable power and decades-long mismanagement of NSW traditional power generators and network.*
- 2. Replacing large coal generators with small gas turbine generators will result in burning more fuel overall.*
- 3. AEMOs documentation shows they recognise the shortcomings of VRE and thus have established Frequency Control Ancillary Services policy (back up synchronous generators) and a specific FCAS Market for these.*
- 4. The FCAS Market will pay higher \$/kW for those generators that can come online rapidly to prop up VRE.*
- 5. The result will be more generators gaming the NEM to maximise profit, while keeping the grid borderline unstable, as it is in their interest to do so.*
- 6. Clealy this results in higher consumer power prices.*
- 7. All the solar and wind turbine projects are for 'show', while the gas and coal are for 'go'. AEMO and the NSW Gov need to communicate clearly with the public that this is the reality.*
- 8. Gas turbines are a stop gap measure.*
- 9. There may be thoughts that 'green hydrogen' can be used in the gas turbines in the future - this is unlikely. Huge amounts of purified water are required, and the energy conversion via electrolysis is very low, meaning massive amounts of solar or wind is required to make the hydrogen to power the turbine. eg to supply hydrogen for a 300MW gas turbine running 24/7 requires 16 x 300MW of installed solar, at least. What is the total environmental whole-of-life cost of this vs. energy produced?*