

**Submission
No 10**

SUSTAINABILITY OF ENERGY SUPPLY AND RESOURCES IN NSW

Name: Mr Trevor Woolley

Date Received: 8 August 2019

The future of our electrical energy supply must be planned. It can not be left to the market.

The current market rules are written so that generators and retailer can maximise their profits in the short term. The current market does not look for long term reliability and the provision of a reliable service to the people of NSW.

Technology is changing and so to must our sources of electricity. Many people are now able to be economically self sufficient in electricity. Many are and will be dependant on the larger network. As a result, the networks can become a stranded asset unless it is used for distributed power generation.

The power network is highly complex and has complex technical requirements. This is inherent in the physics behind the network. The technical aspects of the network must take precedent over the short term financial aspects of the market.

The bottom line is that the current market structure will not provide the long term planning and technical competency that a reliable network requires. To achieve long term reliability in a network where many participants can generate their own energy requires long term planning, an acceptance of new technology and new market rules.

Distributed generation from renewables with adequate storage is the answer for long term reliability. To do this, we as a community need to spend between \$20 million and \$40 million on new generation plant and do this in the next 10 years. We must start this now!!