From: Robert Beatty <bobbeatty@tpg.com.au>
Date: 22 December 2018 at 4:12:23 PM AEST
To: fairdinkumpower.sen@aph.gov.au
Subject: Submission to Fair Dinkum Power Committee

Select Committee into Fair Dinkum Power

Dear Committee,
I introduce myself by referring you to our family web site at www.Bosmin.com

In reference to your first term of reference:-
the potential for empowering energy consumers to play a more important role in the National Electricity Market, through providing diverse services in:
* energy generation,
* demand response and energy efficiency,
* grid stability and reliability services,
* alternatives to conventional network investment

Comment:-
1. I have been concerned with returned service staff who feel 'unwanted' when they return home, and can suggest a possible redeployment of these ex army personnel who return to Australia and then have difficulty gaining civilian employment. The idea is to employ them in a major national project, but still under military control. This is a similar concept to the US Army Corp who have contributed to such projects as the Panama Canal, locks and barrages on the Mississippi River, draining the Florida swamps.
2. In Australia a suitable project could be providing water to regions west of the Great Dividing Range. Engineering details of this proposal are contained at http://www.bosmin.com/ICS/WindIntoWater.pdf and http://www.bosmin.com/turbine/WindIntoWine.pdf
3. You will note this includes developing a more efficient wind turbine generator, new equipment for digging and maintaining water storages, and a new system for transferring water across high ridge lines called "electric siphon". Electric siphon provides a new design concept for the Bradfield Scheme which will dramatically reduce development cost compared to the original tunnel intensive proposal.
4. Another aspect to this proposal is the provision of despatchable renewable power as indicated in the Snowy 3.0 proposal which also has a capital cost benefit compared to the Snowy 2.0 "pumped storage" design.

In summary,
a) this submission offers a better use for wind power storage in the form of pumped elevated water, which results in a despatchable power supply. This is better than using large batteries, and can provide much greater storage capacity.
b) Some of the existing wind farms could be converted into hydro storage power plants, which thereby reduces undesirable impacts on the electricity grid.
c) The proposal can be extended to provide water for the outback.
d) It provides an opportunity to introduce more efficient fuselage turbine machines capable of harnessing significantly more power from the wind than existing wind turbines.
e) Army veteran engineers could be employed as part of this initiative.

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