Submission No 182

SUSTAINABILITY OF ENERGY SUPPLY AND RESOURCES IN **NSW**

Organisation: HydroSun Holdings Pty Ltd

Date Received: 15 September 2019

HydroSun has for the last 12 years been advocating against the application and insertion of large scale solar and wind generation un-stored into the grid, as has been the practice since the introduction of the Clean Energy Certificate, as a funding mechanism to introduce renewable energy into the system, as it will ultimately cause both technical and economic disruption of an unimaginable scale.

It is a gross over-capitalisation and serious disruption to an otherwise efficient NSW grid.

The recent shutdown by AEMO of 4 large scale solar plants across NSW illustrates my point - it is the canary in the coal mine.

HydroSun has developed the worlds lowest cost dispatch able energy - namely floating solar energy stored in UET Vanadium Redox Batteries and delivered twice daily to the grid at high voltage locally.

If applied to 100 regional towns in its correct proportion to both consumption and population numbers across the state of N.S.W. - as is currently proposed to the Hon Matt Kean, Minister for Energy, the practice will deliver not only considerably lower electricity prices at retail level, but added water security and improved water supply at the local level, at the same time reducing transmission losses and delivering stability to the grid at the lowest cost possible.

It allows for substantial growth of generative capacity without the need for grid upgrades, delivering lower electricity prices in the process.

The need to underwrite this substantial investment is crucial to successful commercialisation and roll out, as is diligent protection from the ACCC against anti competitive behaviour by incumbent "gentailers" such as Origin Energy, AGL, Energy Australia and Alinta to allow lower cost energy to be delivered to ensure our international competitiveness.

There is potential for some 12,000 people to be gainfully employed in this industrial process, creating an export industry for the delivery of stored renewable energy and water security to the many small Pacific Nations, but importantly to the 2000 islands in the Indonesian archipelago all of whom are existing on diesel generated electricity only.

LINCAR	ΔN
Sincer	CIV

Soren Lunoe