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**Subject:** Submission Received  
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The below submission has been lodged and confirmed on the AEMC Web site.

Submission Type: Market Review

Reference: Integrating energy storage systems into the NEM

Organisation: Northern Beaches Climate Action Network

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Comments: My comment is a general one. I can't see if/where the AEMC has considered the rapid transition to EV's that now seems inevitable and its implications for storage on the NEM. There are 20M cars in Australia and these are only actually driving 3% of the time - for the rest of the time they could (with some standardisation and R&D) be bi-directionally connected to the grid. 20M cars each with a 60kWh battery bi-directionally connected to the grid each with say a 60kWh battery would put ~1200GWh of storage on the grid, that's 2 days of our entire consumption or 3 times as much storage as Prof Andrew Blakers says we need to go 100% despatchable renewables. IRENA have suggested this to national governments but it's been ignored. This transition will probably put everything that we are doing now out of business - Snowy 2.0, pumped hydro, gas peaking plants, BIG batteries, community batteries and even home batteries will become redundant. Also, because car battery storage will be as distributed as consumers, this will reduce load on the grid not increase it.

We will look back on what we are doing now and say how could we have missed this! So I hope you can consider it seriously and let me know what you think. It would be great if Australia could do something smart for once and promote EV's to catch up with the renewables transition and not waste a gazillion dollars on inevitable Kodak. Thanks for considering. <https://johnmenadue.com/myopic-thinking-electric-vehicles-and-renewable-power/>

URL: <https://www.aemc.gov.au/admin/structure/contact/messages/9818>