

**Supplementary
Submission
No 184a**

SUSTAINABILITY OF ENERGY SUPPLY AND RESOURCES IN NSW

Organisation: Beyond Zero Emissions

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8th of February 2010

Dear committee for the inquiry into Sustainability of Energy Supply and Resources in NSW,

In addition to the comprehensive submission we made earlier, here is a high-level summary of some of the transition work we have been doing as BZE working with communities, industry and government on low carbon energy and manufacturing solutions.

1. Collie at the crossroads WA Nov 2019 – from 1250 fossil fuel jobs to 1750 new clean jobs and over \$13M in investment with new jobs in – CLT timber, Green low emissions cement, renewable manufacturing, recycling & energy. Developed with the local gov., industry, traditional owners and unions (CFMEU, ASU, ETU & AMWU). Next step picking two pathways to start implementing [<https://bze.org.au/research/regional/repowering-collie/>]
2. Repowering Port Augusta (SA) 2017 - replace powerplants with thermal solar and wind – 1775 jobs, 5M tonnes CO2 saved annually, lower electricity prices, energy security - construction started 2019 [<https://bze.org.au/research/regional/repowering-port-augusta/>]
3. 10GW vision for NT – 8,000 jobs, \$2B in revenue, 80% savings transport costs, 30% saving household energy – incl. \$4.4B hydrogen export market \$590M direct economic contribution 960 direct jobs, 2,839 indirect; mineral processing 2,250 new jobs and \$800M annual export revenue; renewable jobs 1,000 new jobs in wind, solar & other sectors. Recent outcome \$20B Sun Cable bid by Cannon-Brooks and Twiggy Forrest and a viable alternative to the polluting onshore gas industry proposed [https://bze.org.au/wp-content/uploads/10_GW_Vision_Final-Beyond-Zero-Emissions-NT-2019-compressed.pdf]
4. Electrifying Industry – first global report demonstrating the ability to shift manufacturing from gas to low emissions renewable electricity. Including viable alternatives for: steel, paper, aluminum casting, bricks, glass, plastic, ammonia, beer, milk powder; & prepared food. Using Heat pumps: up to 160oC; Electric furnaces: up to 2,000oC; Electromagnetic: up to 5,000oC and Renewable hydrogen. [<https://bze.org.au/research/manufacturing-industrial-processes/electrifying-industry/>]
5. Cement (2017) - first global report showing how Australia is well placed to lead the world in a low emissions cement. It shows a pathway developed with the leaders of industry showing five pathways to achieve a zero-carbon cement sector. [<https://bze.org.au/research/manufacturing-industrial-processes/rethinking-cement/>]

We would be happy to come to present to you and to share our insights, partners and networks to make any efforts to reduce our industry emissions.

Your Sincerely

Dominique Hes, Principal Research BZE



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