

A presentation which makes a convincing argument to extend Australia's existing National Grid as soon as possible !

Inspired by Dr. Alan Finkel AO, Chief Scientist who delivered a report in June 2017 called;
'Independent Review into the Future Security of the National Electricity Market - a blueprint for the Future'

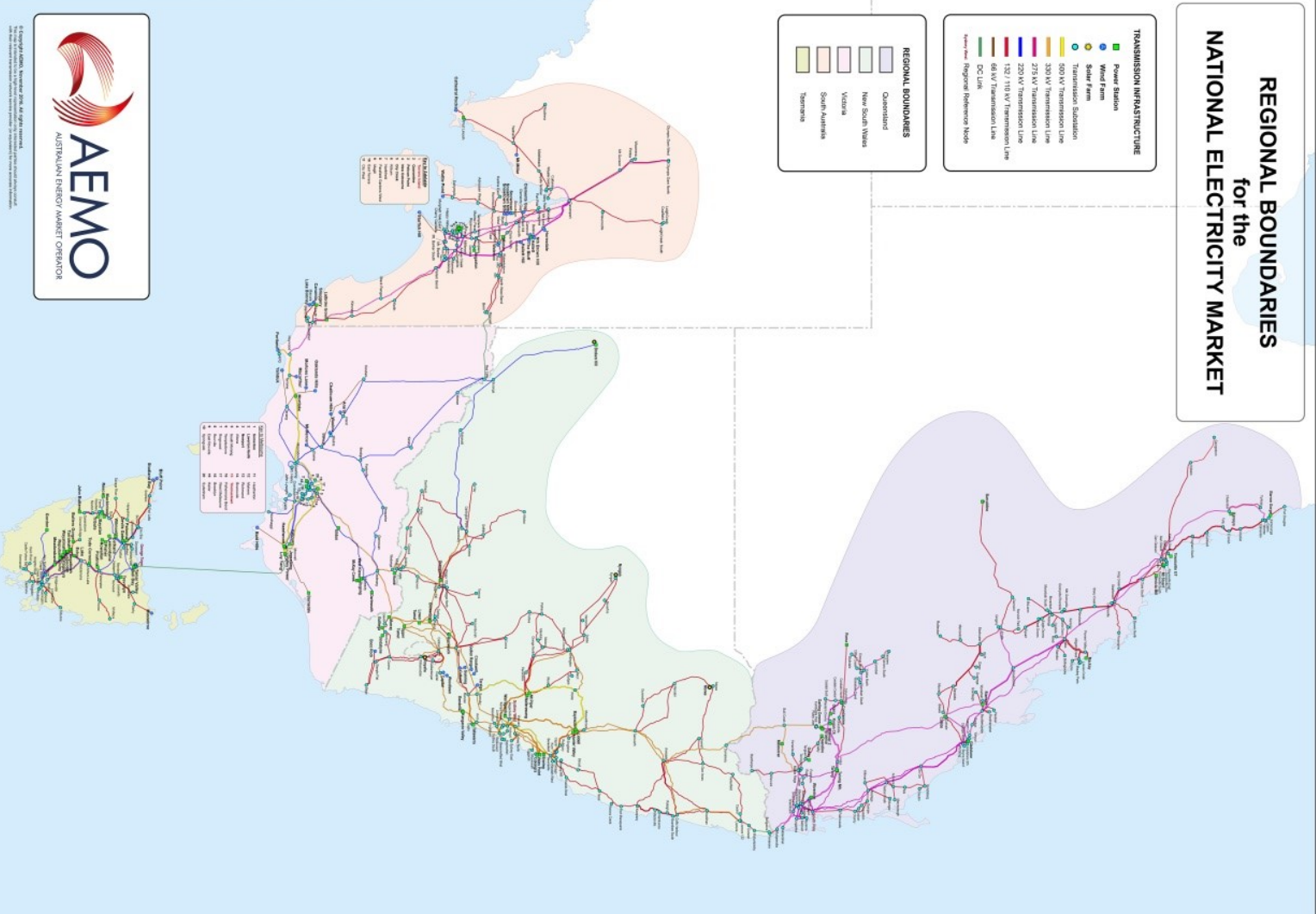
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*"A reliable and low emissions future.
The need for an orderly transition."*



Preamble

The Australian Energy Market Operator (AEMO) has produced a wonderful graphic representation of Australia's National Grid (as at November 2016)

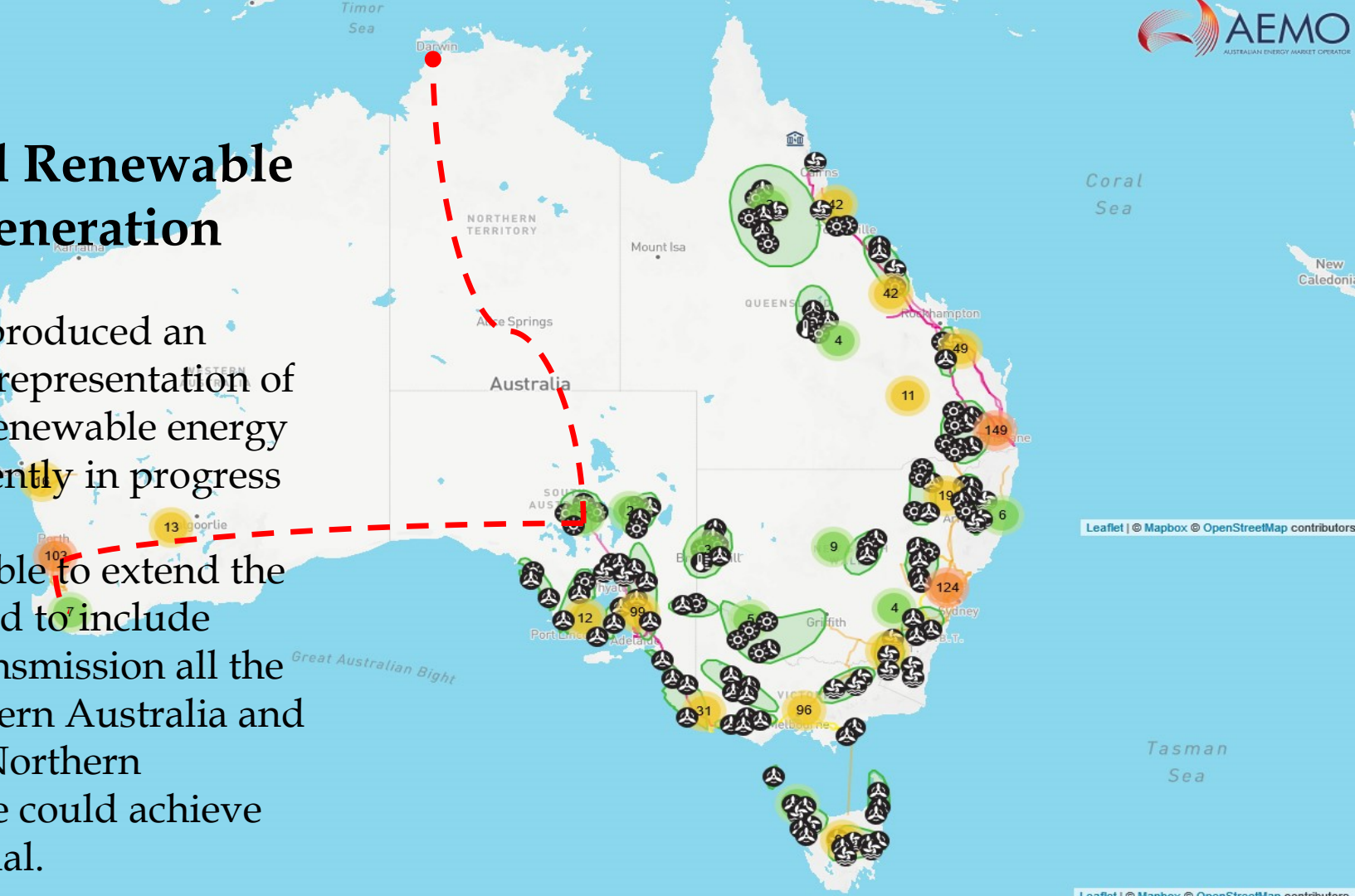


Proposal

Base load Renewable Energy generation

[AEMO](#) has produced an informative representation of the existing renewable energy centres currently in progress and active.

If we were able to extend the National Grid to include [UHVDC](#) transmission all the way to Western Australia and then to the Northern Territory, we could achieve great potential.



Wave Energy

24/7 Ocean wave energy from Albany which is documented as having the most energetic wave energy in the world.



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<http://ecm.uwa.edu.au/business/wave-energy-centre>

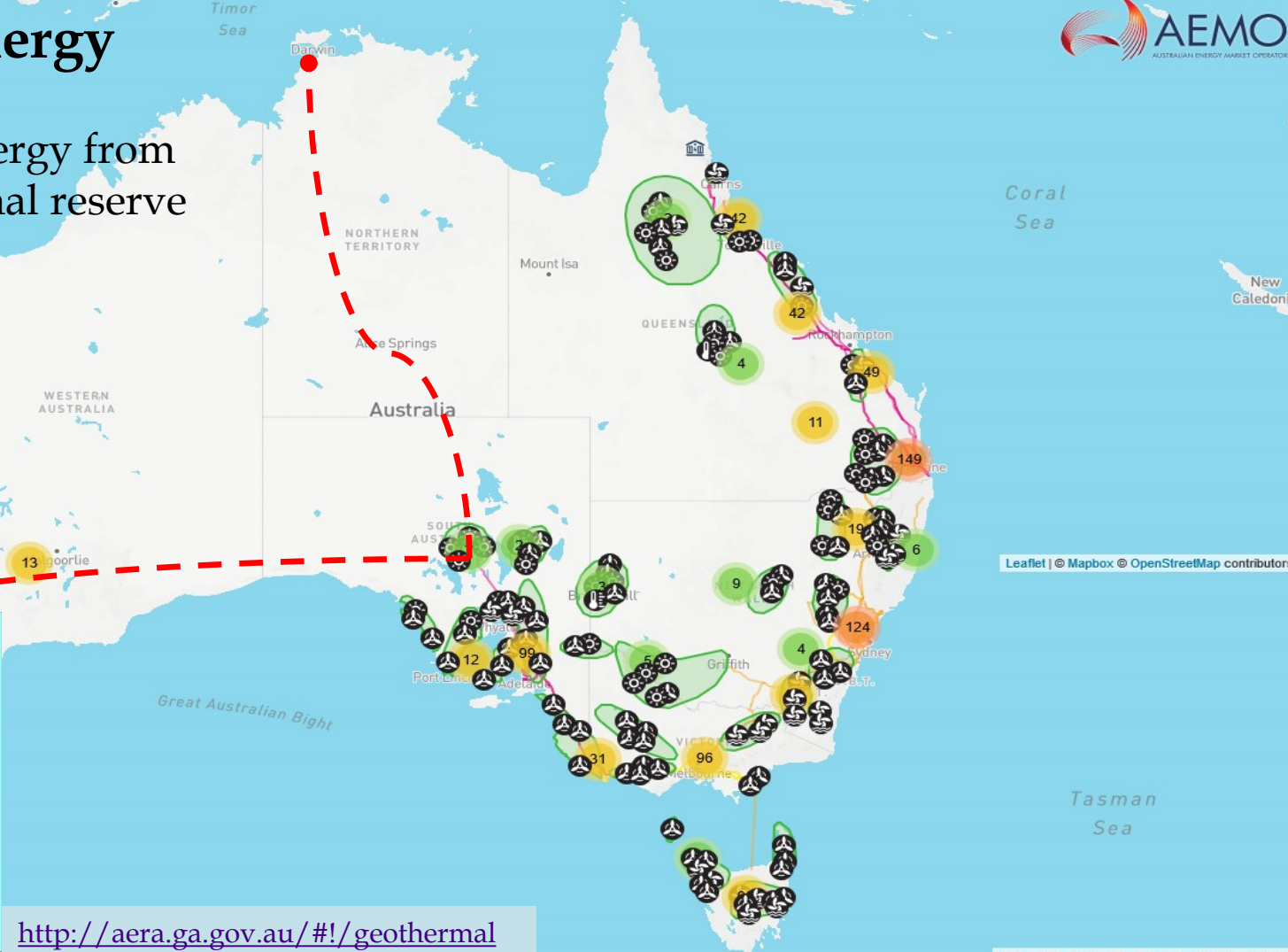
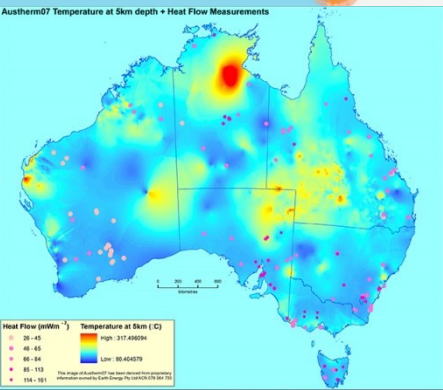


Wave Energy Research
Centre

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Geothermal Energy

24/7 Geothermal energy from the biggest geothermal reserve in Australia.



<http://aera.ga.gov.au/#!/geothermal>

Imagine

Imagine our Renewable Energy helping other nations as well, thereby reducing fossil fuel usage world wide. For example:

- Darwin to East Timor and then on to Indonesia (less than 2700 km)
- Sydney to New Zealand (less than 2200 km)

Using today's latest technology (UHVDC), makes it possible to transmit more than 3,000km with very low transmission loss.



Conclusion

With all of this statistical analysis and the advancement in UHVDC technology, we must surely be able to tap into the renewable potential Australia has and make a big difference to our energy footprint. This will only happen after we extend the grid.

Extending the *'backbone'* National Grid to Western Australia and the Northern Territory is our highest priority.

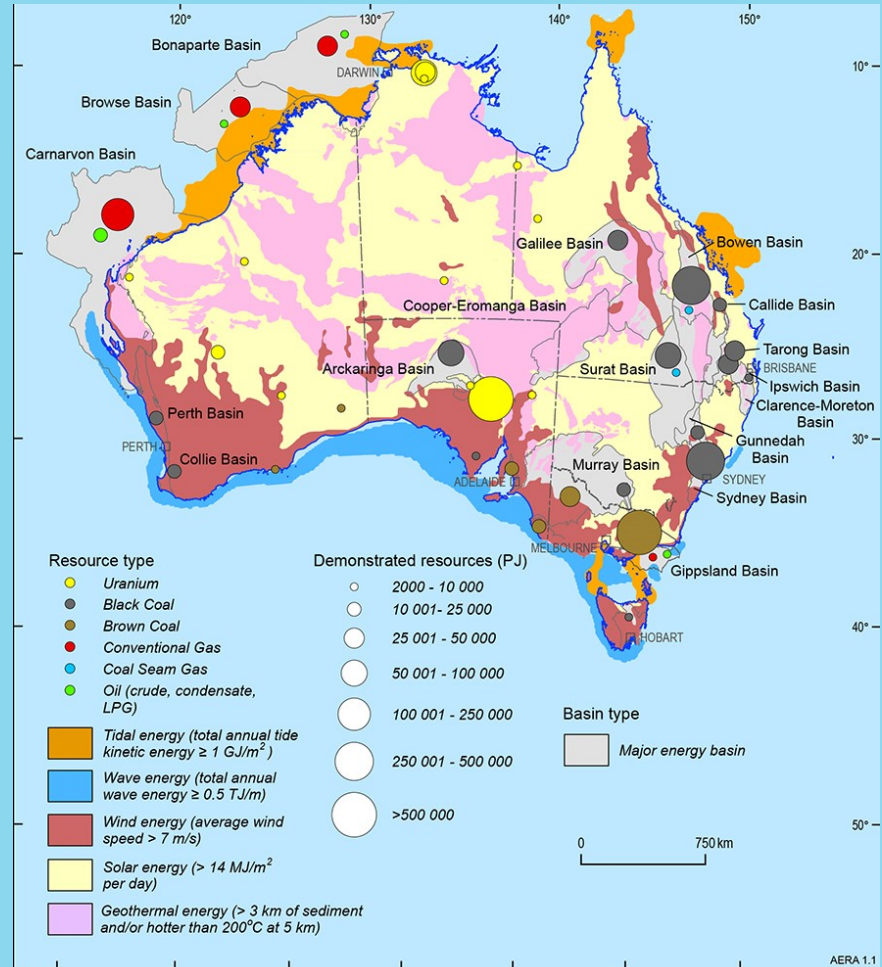


Figure 1.1 Australia's major energy resources, excluding hydro and bioenergy

Note: Total resources are in many cases significantly larger than the remaining demonstrated resources which do not include inferred and potential (yet to be discovered) resources.

Source: Geoscience Australia