

The Looming Collision between Electric Vehicles and Green Energy.

by Viv Forbes

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<https://saltbushclub.com/wp-content/uploads/2020/02/australian-green-fantasies.pdf>

Two green-dream fantasies are heading for a massive and costly collision.

Firstly they dream of generating all grid power from wind/solar propped up by battery storage (such as lots of giant Tesla batteries and pumped hydro).

Secondly they dream of replacing all petrol/diesel/gas cars, trucks and buses with electric vehicles, powered by more batteries.

But wind farms do well if they can average about 35% of their rated capacity with low predictability, while solar panels average just 25% of their capacity, produced intermittently. To generate zero emissions energy for Australia, we would need hills covered with turbines, flats covered with solar panels, the countryside spider-webbed with access roads and transmission lines, and much more hydro.

To stabilise a green energy system without using hydrocarbons will require an eye-watering quantity of batteries, costing as much as 200 times the cost of any wind/solar facility needing backup. Every home will need a battery in the basement (and sensible ones will also have a diesel in the shed).

Add to this battery bonanza the batteries needed to electrify and replace our fleet of petrol/diesel vehicles.

No wonder cynical mining companies like BHP are going green – they smell a profit bonanza from the coming green boom in demand for steel, aluminium, lithium, copper, nickel, graphite, cobalt, rare earths and nuclear fuels. And no wonder Tesla supports green energy – the total annual output of the world's biggest battery factory in Nevada would store less than five minutes of annual US electricity demand. And they also see booming demand for electric vehicle batteries. No wonder Tesla shares have gone ballistic – the boom before the crash?

The carbon dioxide emitted by all the extra mining, transport, manufacture and disposal of green energy generators and batteries would far exceed the CO₂ allegedly saved by the threatened green upheaval.

All Australians rely on trucks to deliver their daily food to towns and cities - in road trains, semi-trailers, refrigerated trucks and electric trains, almost all powered by diesel, coal or gas. If they were all-electric and powered by batteries, where will the electricity come from to recharge all of these batteries? In tomorrow's Australia it must come from an unreliable wind/solar grid, hydro power or diesel generators.

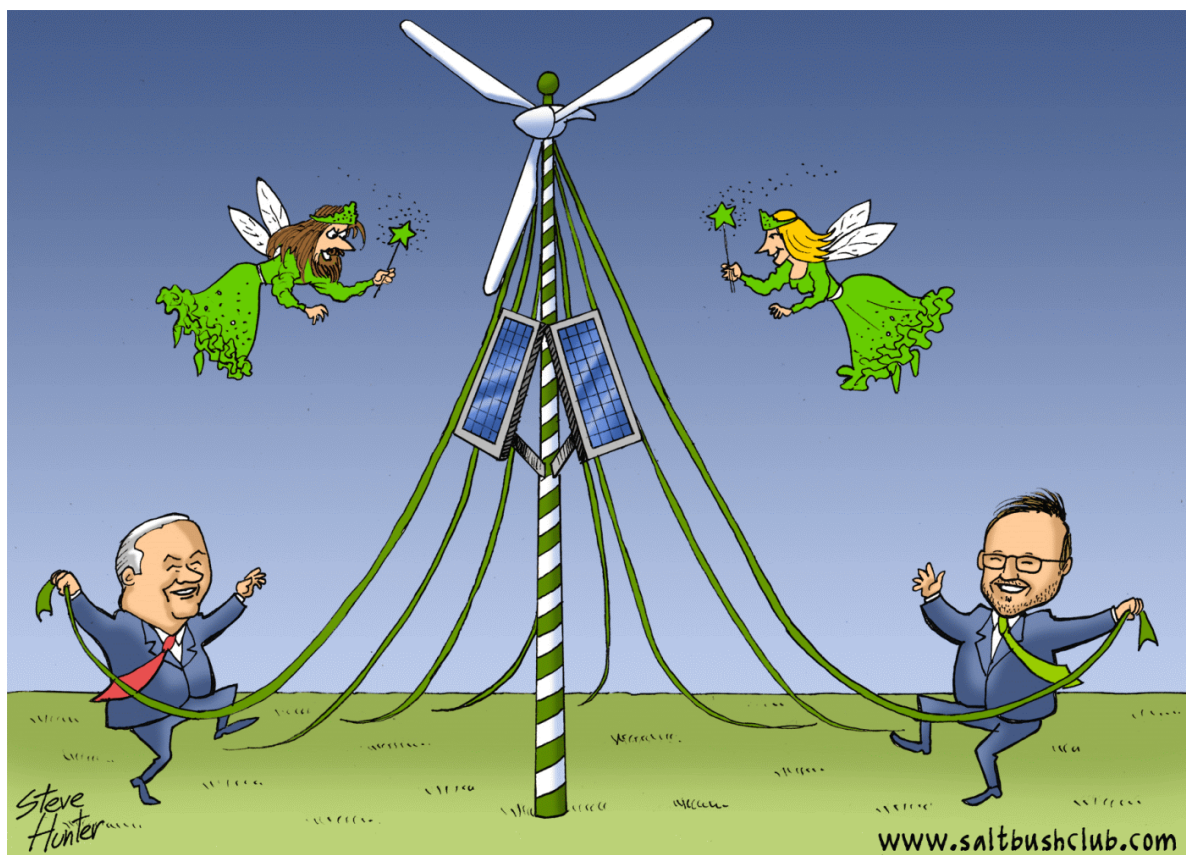
Take a look in the link below at a road train taking cattle to market in the Kimberley region in outback Australia. One truck on its own would bog in the soft sand or in creek crossings, but with a 4WD tractor, four diesel semis and eight trailers linked in a road train, at least one set of driving wheels is likely to be on solid ground. In the electric vehicle fantasy-world, what weight of batteries would drive this road train and where would they recharge their batteries?
<https://www.youtube.com/watch?v=5TFGGHaFJIU>

Even if they just focus on forcing electrification of private cars where does the real power come from every night when most of them plug in to re-charge? If it is a still night, ZERO electricity will be coming from wind and solar. That leaves coal, gas, batteries, pumped-hydro, rationing, load-shedding or blackouts to close the gap.

Forget energy-wasting nonsense like capture and burial of CO2, and the energy-consuming roundabout of generating and then burning hydrogen. The zero-emissions delusion is impossible without nuclear power, but this can only happen if people can be reassured on nuclear safety and waste disposal. Are the Greens going to lead that process?

And if we get global cooling instead of global warming, what will keep us warm on long still winter nights? Any state or country reaching for these impossible green dreams is destined for blackouts and energy riots on the streets.

It's time for Australian politicians to stop frolicking with green fairies around the zero emissions maypole. Green energy will never power a conversion to electric vehicles. They must remove all barriers and climate taxes on safe, reliable, trusted energy sources – coal, gas and oil.



Albo and Adam - off with the Green Fairies

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We need **more** reliable cheap power for jobs and industry and **more** CO2 in the atmosphere to make green plants grow faster with less water.

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Viv Forbes has studied geology, physics, chemistry, maths, meteorology, cycles, industry economics and commodity markets.

Further Reading:

Providing 100 Percent Energy from Renewable Sources Is Impossible:

<https://saltbushclub.com/category/batteries/>

Battery Storage – an infinitesimal part of electricity power:|

<https://carbon-sense.com/2019/07/14/battery-storage-an-infinitesimal-part-of-electrical-power/#more-2233>

The Green Elephant in the Snowy Mountains:

<https://carbon-sense.com/2018/09/01/snowy-elephant/#more-2115>

Australia's failed Energy Policies:

<https://carbon-sense.com/2017/10/13/open-letter-to-the-prime-minister-of-australia/#more-1855>

Australian grid has major near miss: SA Islanded for two weeks. Nearly wrecked an aluminium smelter:

<http://joannenova.com.au/2020/02/australian-grid-has-major-near-miss-sa-islanded-for-two-weeks/>

Zero Emissions Foolishness:

<https://carbon-sense.com/2013/07/10/zero-emissions/>

Electric Vehicles and CO2:

<http://www.windtaskforce.org/profiles/blogs/the-proper-basis-for-calculating-co2-of-electric-vehicles>

China's Electric Car Market Continues to Plunge:

<https://www.climatedepot.com/2020/02/14/chinas-electric-car-market-continues-to-plunge-once-pipped-for-explosive-growth-chinas-ev-market-is-now-crashing/>