



REPOWERING Australia



Our choice



Our role



and

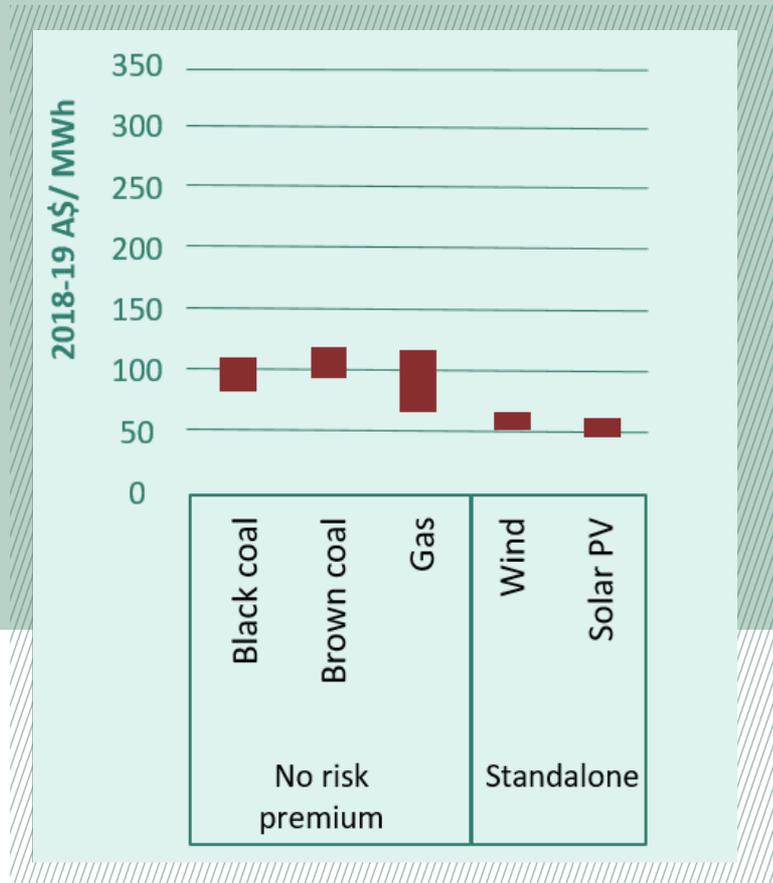
Fairer



It's inevitable: Cost

Renewables are
cheapest

Figure: Costs of Fossil Fuels and Wind and Solar



Source: AEMO and CSIRO



It's inevitable: Aging Coal

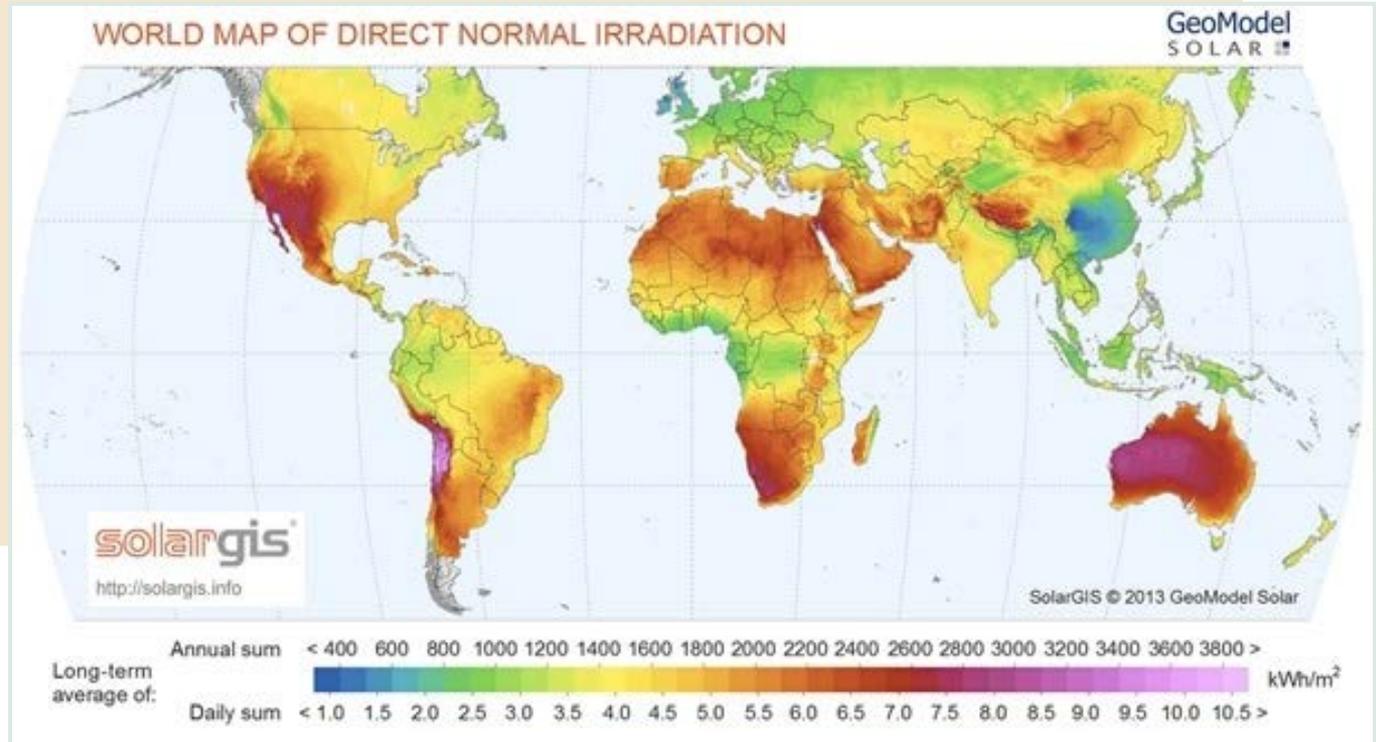
10 coal power plants have shut
in the last decade

*"Australia's coal and gas
plants broke down every three
days in 2018"*
The Australia Institute



It's inevitable: Opportunity

Australia has the best resources in the world



It's inevitable: Aussies love it

- ❑ Australia is number one in the world for rooftop solar
- ❑ Up from less than 100,000 in 2008 to more than 2 million solar rooftops glinting across the country.
- ❑ 3,000 Australian households going solar every single week.



It's inevitable: Creates a better life...



**REGIONAL
ECONOMIC
DEVELOPMENT
& JOBS**



**CLEANER
AIR**



**A HEALTHY
FUTURE FOR
OUR CHILDREN**



**CONTROL
ENERGY
BILLS**



**COMBAT
CLIMATE
CHANGE**



It's achievable...

100% Renewable Reports

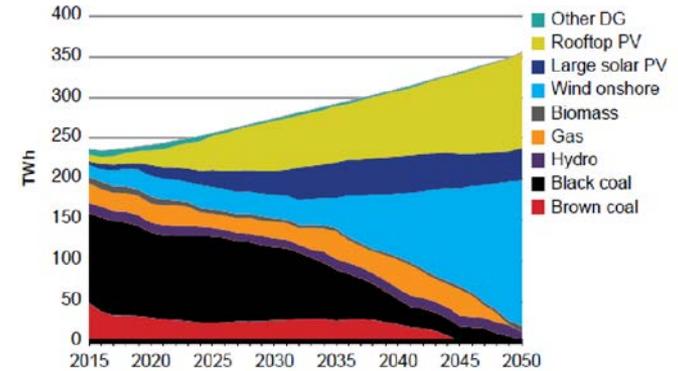


Experts agree...

“100% renewables is 100% doable”

Electricity generation mix

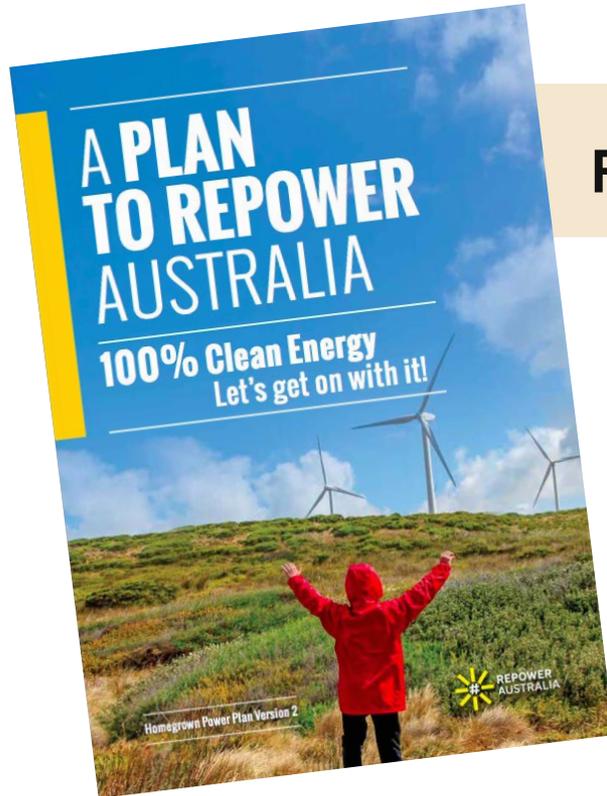
Projection of Australia's changing electricity generation mix to 2050



Experts agree that shifting to an energy system powered by the sun and wind is technically feasible and economically responsible. Nine different expert organisations, from the University of New South Wales to the Australian Energy Market Operator, have all conducted studies that show 100% renewable energy for Australia is 100% doable.



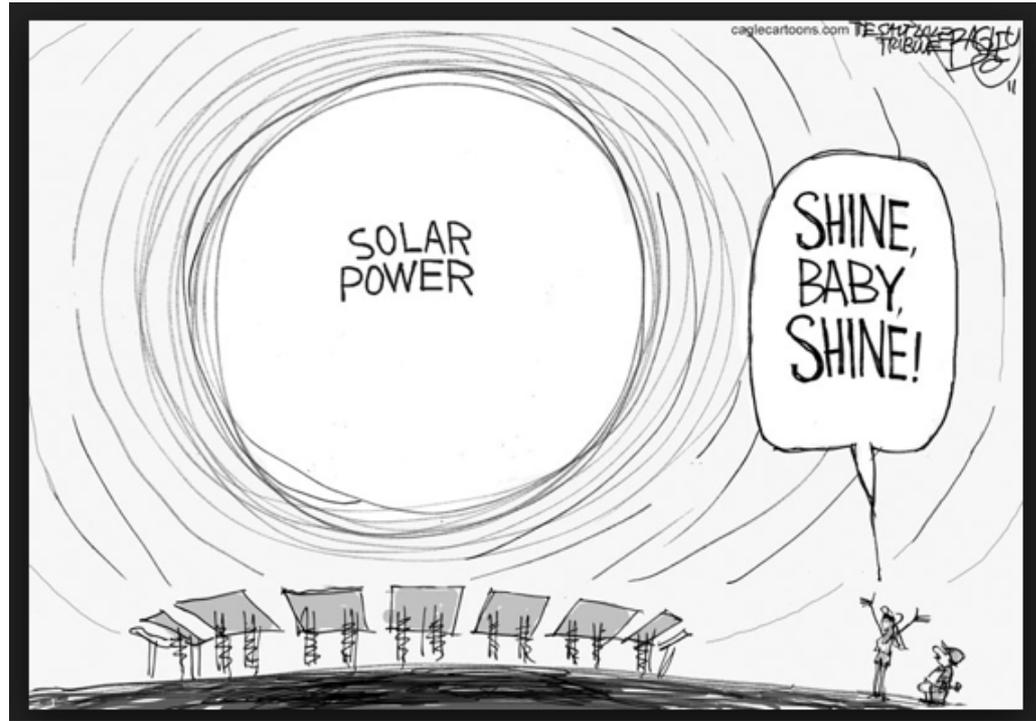
... and we have a plan



REPOWER AUSTRALIA PLAN



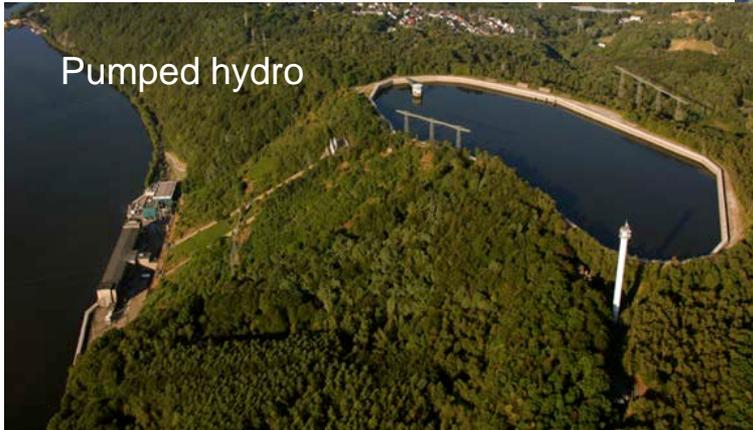
Here's how 100% renewables will work...



1. Big on low-cost renewables



2. Fill the gaps with a diversity of technologies



2. Fill the gaps with a diversity of technologies

MIX OF

**Technologies
Locations
Durations**



EQUALS

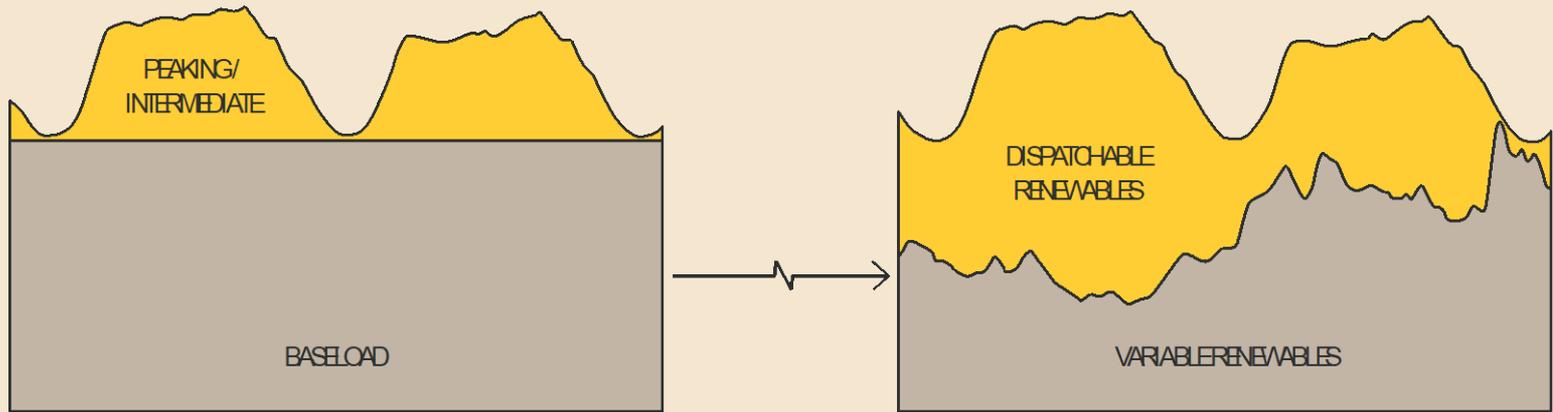
Least cost ✓

Least risk ✓

Orderly transition ✓



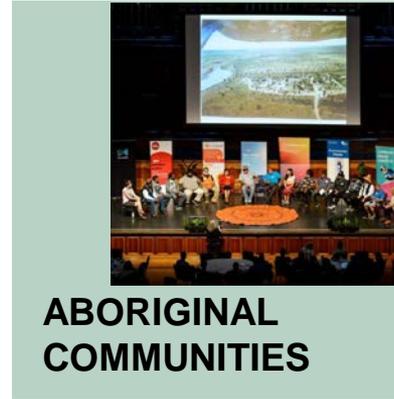
2. Fill the gaps with a diversity of technologies



Source: Riesz, J et al, 2016



3. Small so everyone can benefit



4. Industry and transport go renewable too



“Electricity is a versatile form of energy that can be used to power any industrial heat process. By switching to electrical heating we can halve the energy required to produce many goods, while reducing costs and increasing production speed.”

Beyond Zero Emissions



5. Demand is as important as supply

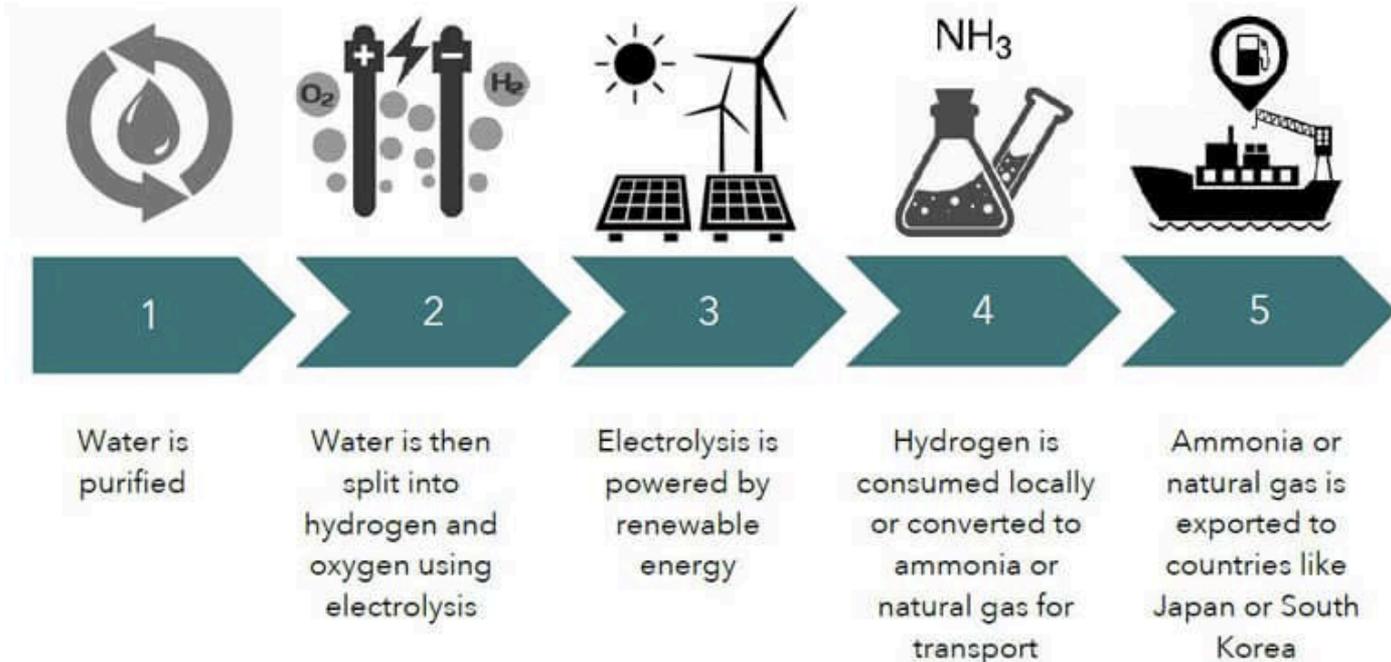


6. Poles and wires only where we need them

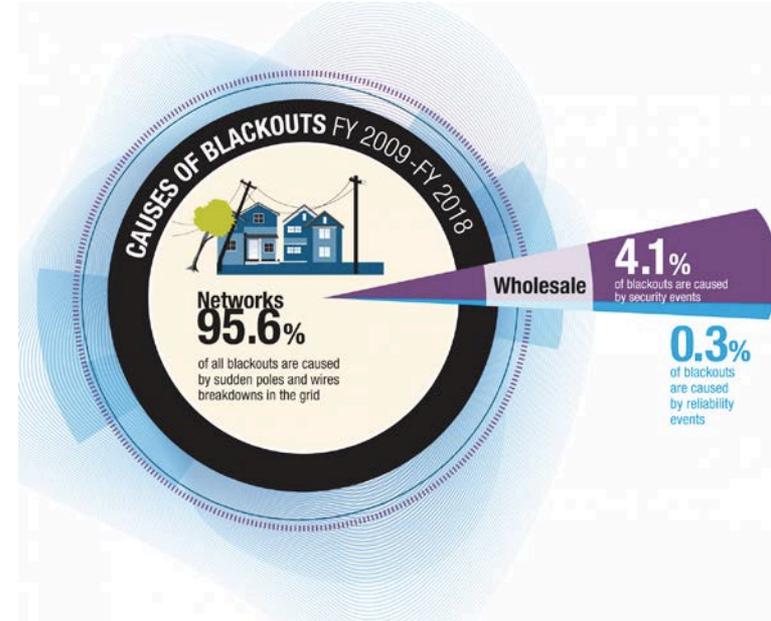
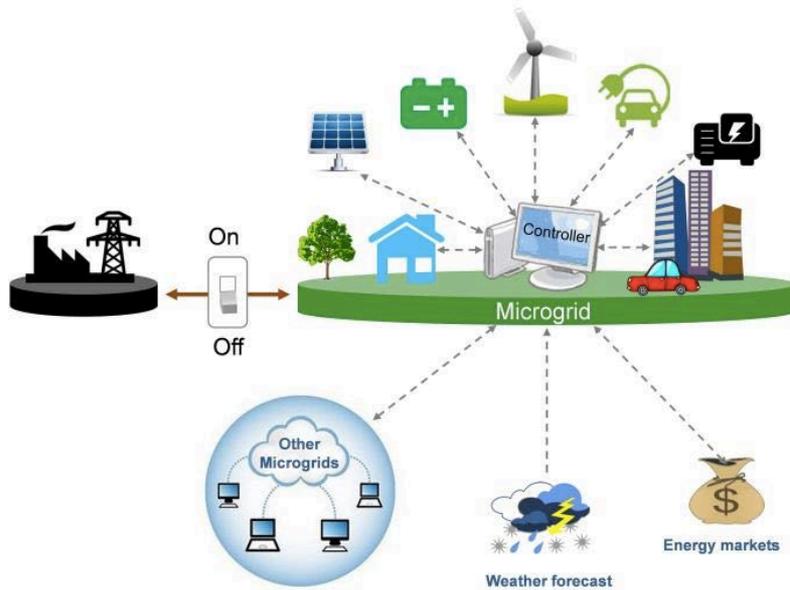
- ❑ The grid is an essential service
- ❑ Less grid - Edge of grid communities disconnect and become microgrids
- ❑ More grid – New transmission lines to renewable energy zones



7. We export renewables to the world



8. More reliable in extreme weather



But we're being held back by coal companies...



... and ripped off by energy companies

EnergyAustralia recently reported a half-year profit of \$375m to June 2018 – up from \$129m a year earlier – closely followed by AGL, with a near-tripling of its own net profit for 2017-18.

www.abc.net.au/news/2018-02-08/agl-half-year-profit/9407330



AGL half year profit almost doubles as higher prices boosts margins

By business reporter [Stephen Letts](#)
Updated 8 Feb 2018, 12:11pm

The big energy utility and retailer AGL has reported an almost doubling of its first-half net profit driven by its wholesale market business.

The \$622 million profit for the six months to December 31 represented a 91 per cent jump on the previous corresponding period.

AGL
First half results 2010-2018

Year	Net profit(\$m)	Underlying profit(\$m)	EPS(cents)	Dividend(cents)
2010	235			
2011	226			
2012	233			
2013	273			
2014	242			
2015	302			
2016	375			
2017	389			
2018	453			

EnergyAustralia trebles profit, even as consumers flee

reneweconomy.com.au/energyaustralia-trebles-profit-even-consumers-flee-87670/
Sophie Vorrath August 7, 2018

Australia's big three gen-tailers continue their orgy of money making at the expense of consumers, with EnergyAustralia this week reporting a trebling of its half-year profit, even as wrung out customers quit the company by the tens of thousands.

The owner of the ageing Yallourn brown coal generator, itself owned by Hong Kong-listed CLP Group, on Monday reported a net profit of \$A375 million to June 2018, up from \$A129 million a year earlier.

The surge in profit comes off the back of sustained high wholesale electricity prices – even despite a reported customer churn of around 60,000 for the half – and apparently unscathed by the energy policy war playing out between the federal government and the states.

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Business

Origin profit up, signals dividend return

Energy giant Origin has more than doubled underlying profit thanks to improved results from its retail and gas export operations.

Updated 16 August Share

Origin Energy has lifted full-year revenue by seven per cent to \$14.8 billion and more than doubled underlying profit on the back of improved performance in its retail and gas production operations.

The electricity and gas group's statutory net profit for the year to June 30 was \$218 million, up from a \$2.2 billion loss a year earlier when results were hit by impairment charges.

...and the
politicians in
their pockets



So we must take back control

We have to fight for
solutions and take back
control of our energy
and our future!



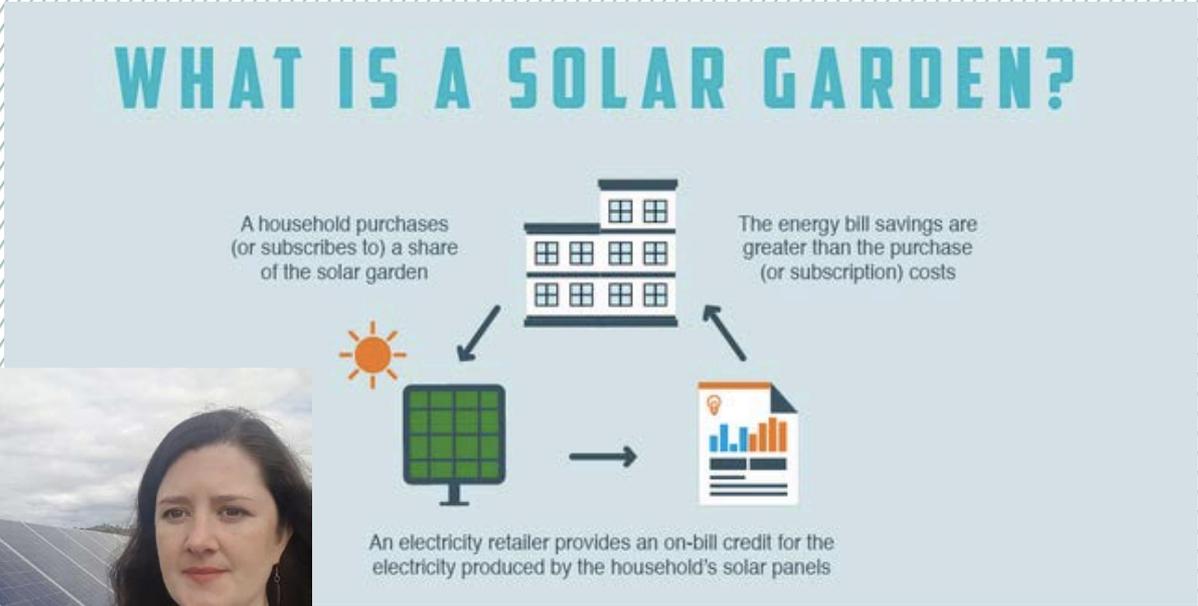
Sunny Shire



Jonathan Prendergast founded Sunny Shire in southern Sydney. Sunny Shire has run several rounds of bulk buys to help Shire residents get solar, batteries and use energy more efficiently.



Solar Gardens



ARENA

Nicky Ison is a renter, who is working with her team at Community Power Agency to make solar gardens a reality for renters and other locked-out households in Australia.



Whyalla Steelworks

- » Imminent closure of Whyalla Liberty OneSteel steelworks brought the town of Whyalla in dire straights
- » Solution: Building \$1 billion solar farm near Whyalla in 2019 – 280-MW Cultana Solar
- » Benefit: Employing 350 workers during construction + greater energy security to local steel business.



“Renewables are the “ultimate liberator” to energy-intensive industries like the Whyalla steelworks.”



Sanjeev Gupta

Repower Shoalhaven

REPOWER
SHOALHAVEN



Chris Cooper founded Repower Shoalhaven, which develops community solar projects for local Shoalhaven businesses and individuals to participate in.



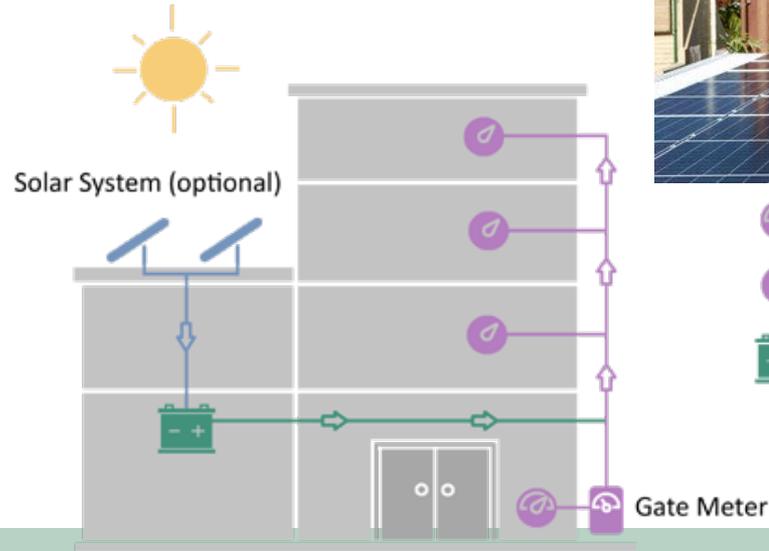
Totally Renewable Yackandandah



Matt-Charles Jones founded Totally Renewable Yackandandah which has developed two community micro-grids in partnership with Mondo Power and is looking to allow peer-to-peer energy trading as part of taking their community to 100% renewables by 2022.



Stucco Housing Cooperative



-  Common Area Meter
-  Tenants Meter
-  Battery Storage (optional)

Bjorn Sturmberg and Sarah King created an embedded solar and battery microgrid for their Sydney 8-unit housing cooperative. They get ~80% of their electricity from the microgrid and save \$35/month.



Hepburn Wind



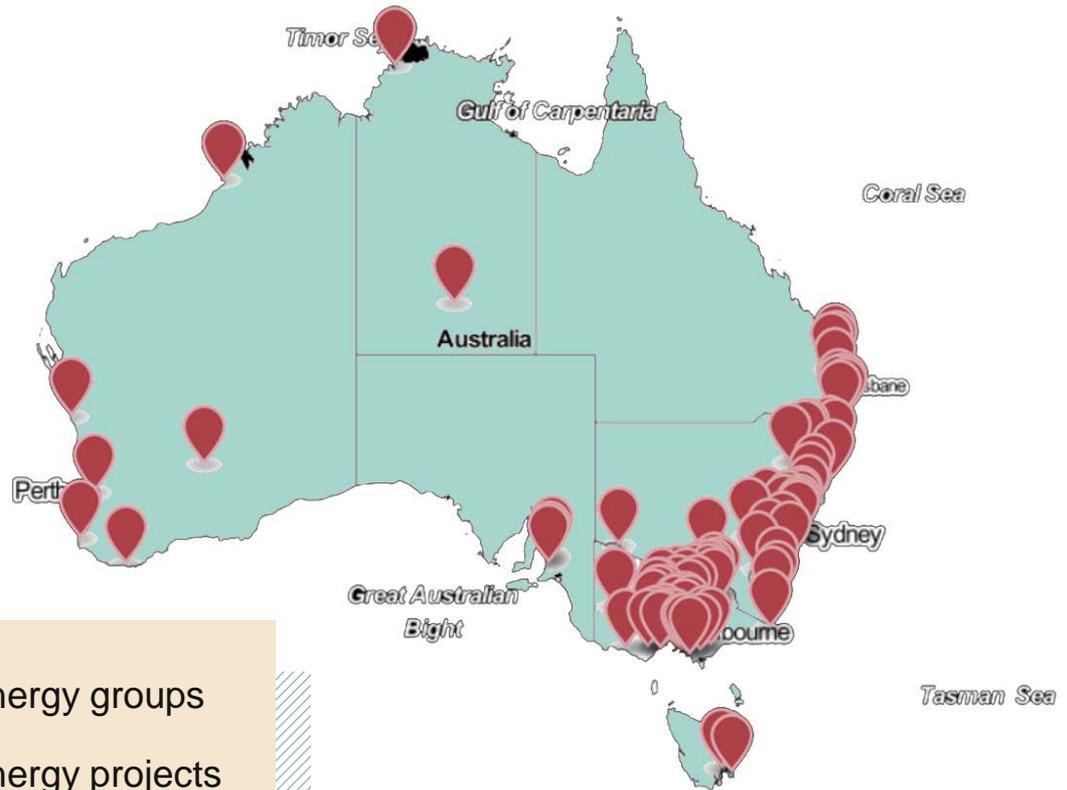
Hepburn Wind is the owner and operator of Australia's first community-owned wind farm in Daylesford, Victoria

The energy cooperative hosts two turbines called Gale & Gusto, which produce 4.1 MW – enough clean energy for over 2000 homes.

- » 2000 Members, 51% local people
- » \$15k per turbine per year re-invested into a Community Sustainability Fund



... across the country



- ✓ 105 community energy groups
- ✓ 147 community energy projects



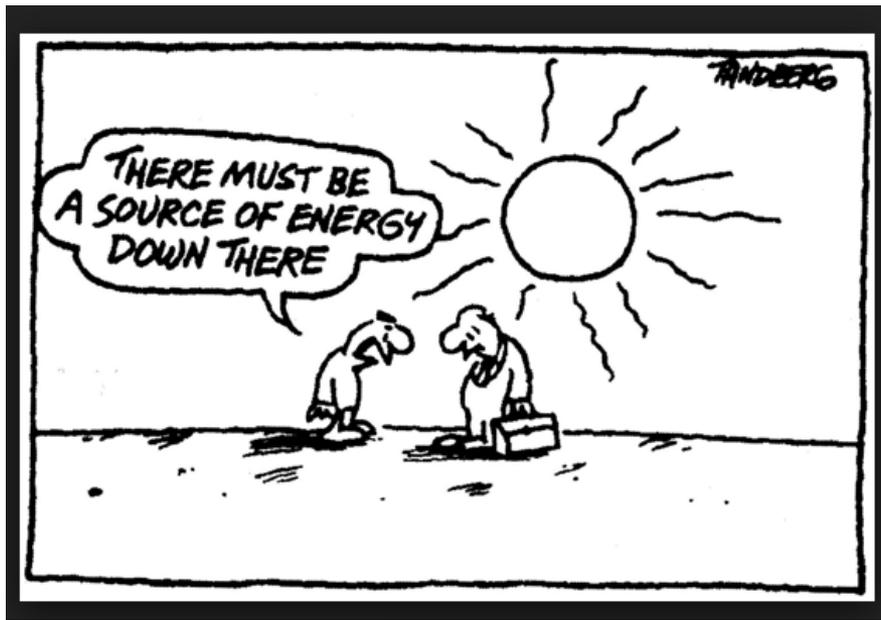
Lets get on with it!

to make the clean energy transition faster and fairer for all



What you can do...





THANK YOU

