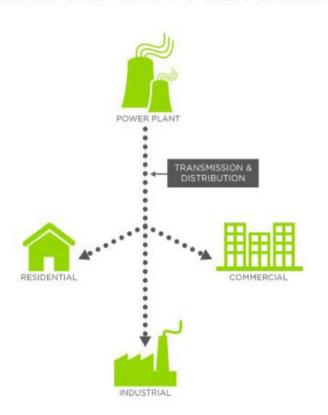


Renewable energy in NSW

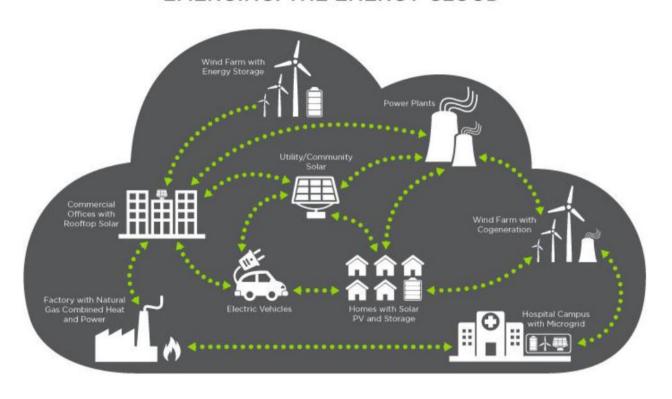
Tim Stock Manager Sustainable Energy Programs
June 2017

A transformation is underway in energy

TODAY: ONE-WAY POWER SYSTEM



EMERGING: THE ENERGY CLOUD





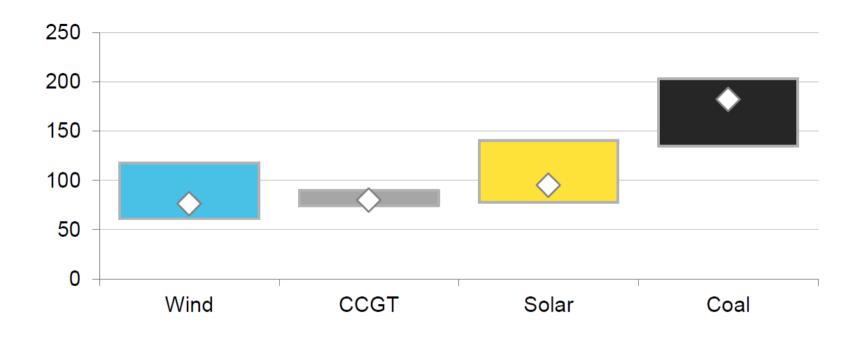
| Energy supply must be met as the mix changes

Power station	Fuel type	Commissioning	Decommissioni ng (announced)	Age (year)	Capacity (MW)
Eraring	Black coal	1982-84		32-34	2,880
Bayswater	Black coal	1982-84	2035	32-34	2,640
Liddell Black	Black coal	1971-73	2022	43-45	2,000
Mt Piper Black	Black coal	1993		23	1,400
Vales Point B	Black coal	1978		38	1,320



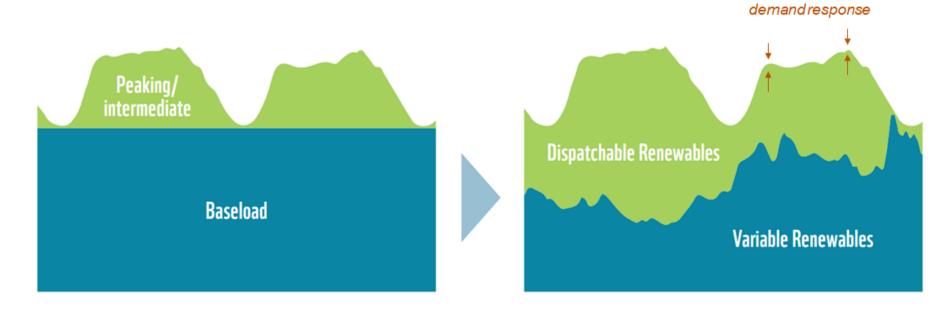
Renewable energy is the cheapest form of new generation in Australia

Levelised cost of energy for new build technologies in Australia (AUD/MWh) in 2017



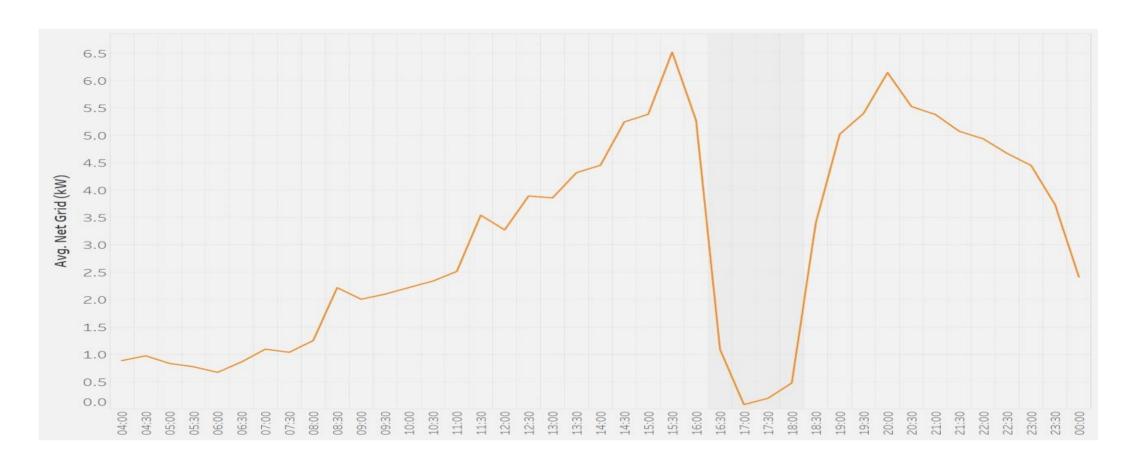


What does it mean?



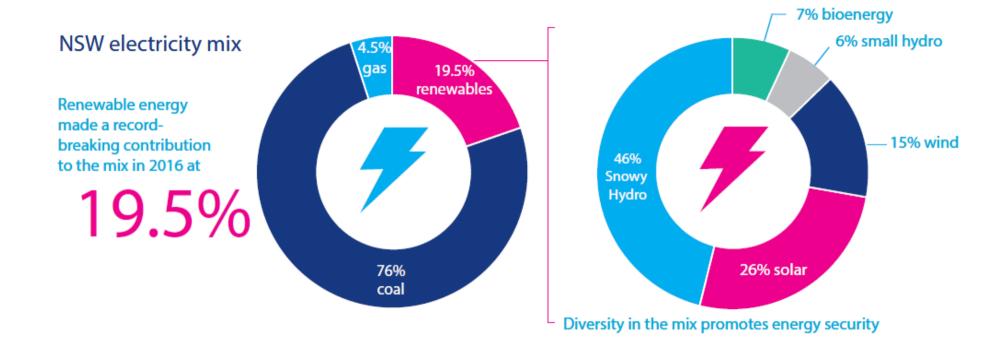


de Demand management emerging at peaks





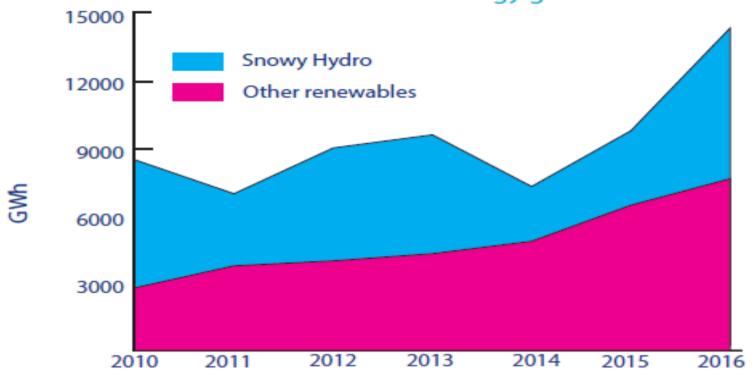
The NSW energy sector





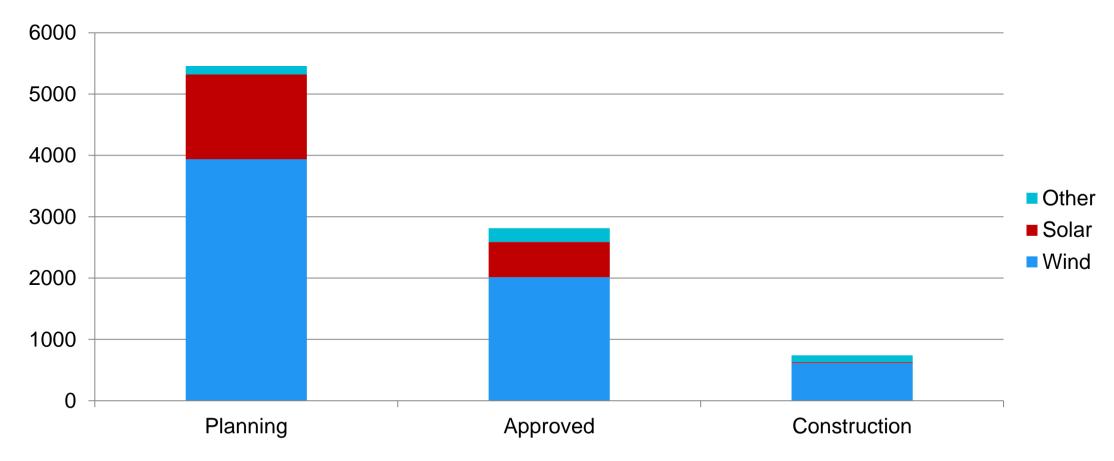
The NSW energy sector





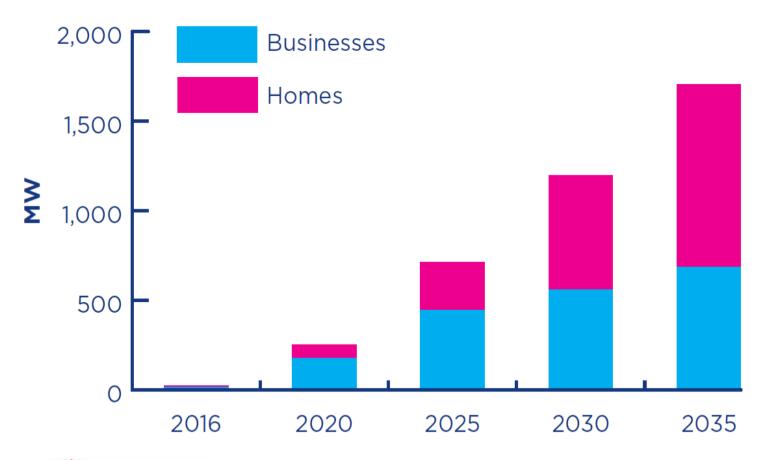


NSW has a substantial pipeline of large-scale renewable energy projects





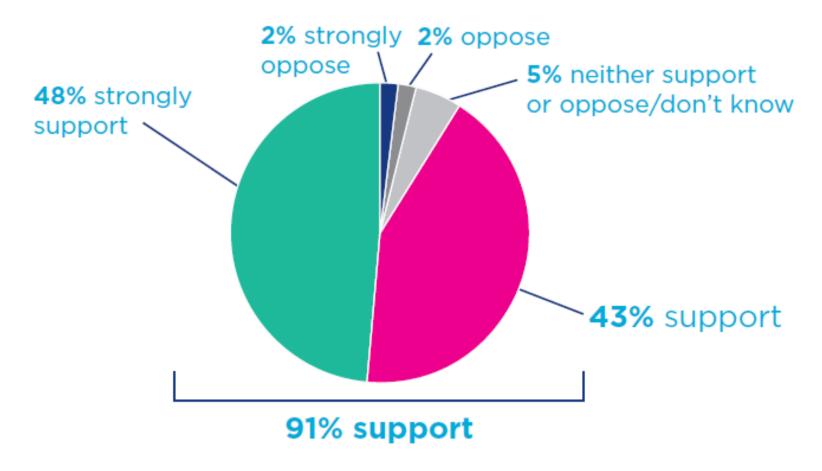
NSW is suited to batteries in homes and businesses



Solar penetration, consumer preferences, rates of technological adoption and tariff structures – make NSW suited to BTM energy storage.



Renewable energy enjoys strong support





NSW Government Leadership &

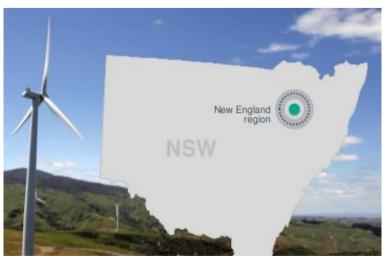


| Government leadership in NSW

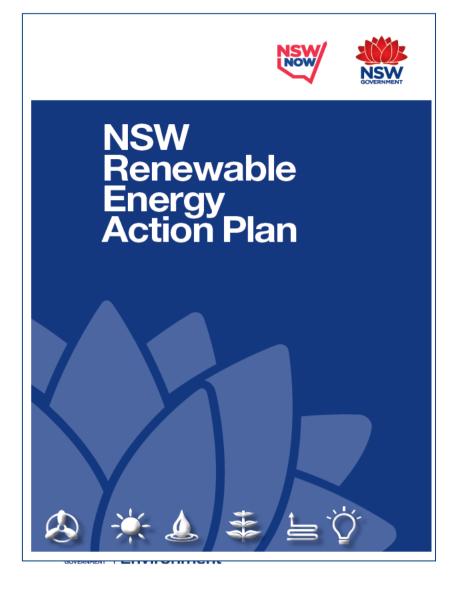
- Aspiration net-zero emissions by 2050
- Government-retailer 50MW solar offtake agreement
- Sydney Metro North-West tender – renewable energy procurement
- Voluntary, market-led roll out of smart meters
- NSW Government Resource Efficiency Policy
- Wind Planning Guidelines







NSW Renewable Energy Action Plan



The Government's standing position on renewable energy

- Attract investment
- Build community support
- **Grow expertise**

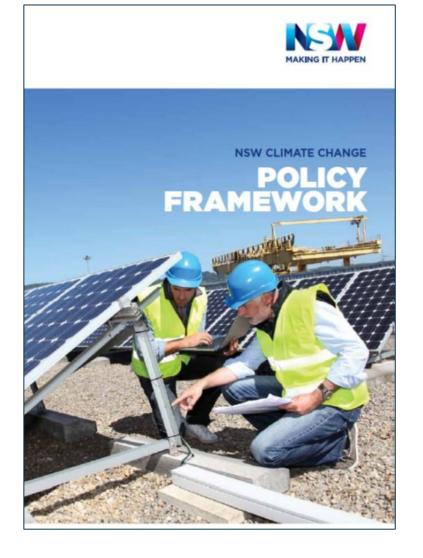


Clean energy strategies for business program

- NSW Government is providing funding support to 20 businesses wishing to achieve net zero emissions or 100% renewable energy
- Each business will develop a 'clean energy strategy' with tangible steps for achieving strong targets, with support from expert advisers
- Key areas of interest so far are corporate PPAs for renewable energy and innovative options for bioenergy
- NSW Government will share findings and case studies in the second half of 2017







NSW Climate Change Policy Framework

Aspiration objectives:

- 1. Achieve net zero emissions by 2050
- NSW more resilient to a changing climate

Environmental funding package:

- 1. \$200m Accelerating advanced energy
- 2. \$200m National leadership in energy productivity
- 3. \$100m Adapting to a changing climate



GreenPower Accredited Renewable Energy

- credible way for organisations to voluntarily purchase government accredited renewable energy
- support renewables and reduce their environmental impact
- drives investment in renewables by increasing demand for Large-scale Generation Certificates (LGCs)
- Improve environment ratings Greenstar and NABERS



GreenPower Connect

All the existing benefits of standard Greenpower plus:

- reduction in administration costs for large purchases of renewable energy
- direct linkage with a specific project







Tim Stock Manager

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