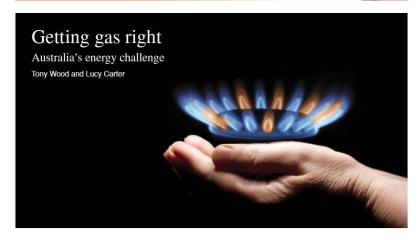






Sundown, Sunrise
How Australia can finally get solar power right



David Blowers 11 June 2015



A bright future

- Falling costs of solar and the emergence of battery storage will change the way we use electricity
- Combined with more cost-reflective pricing, households and businesses with these technologies will save on electricity bills and reduce costs for others
- Going off-grid will be a real possibility for households and communities in remote and rural areas
- This will challenge the way in which the traditional electricity sector is managed and regulated
- Governments will need to take appropriate action so that solar can take its place in the sun



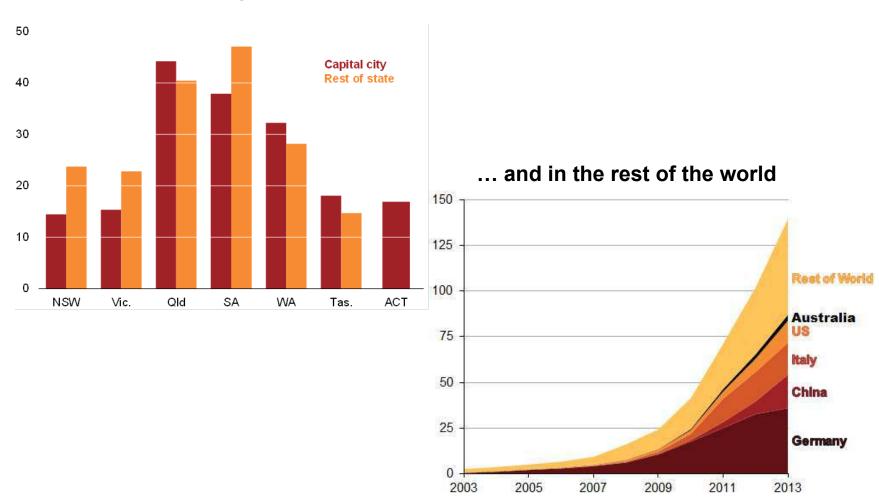
Solar PV and batteries as a disruptive technology?

- Traditionally, all consumers, with the exception of those in some remote areas, have relied on centralised generation and the grid
- Generous subsidies have driven the high adoption of solar PV, as more and more urban households have some form of distributed generation
- Emergence of battery technology provides the opportunity for consumers to leave the grid altogether
- The death spiral and the end of the grid?





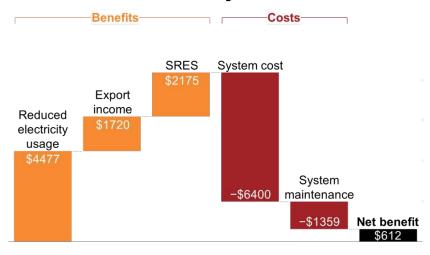
Take-up has been huge in Australia





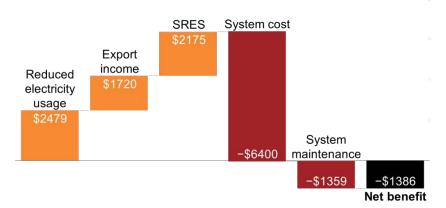
Demand tariffs will make solar PV less attractive

Solar PV in the money now



But not under demand tariffs

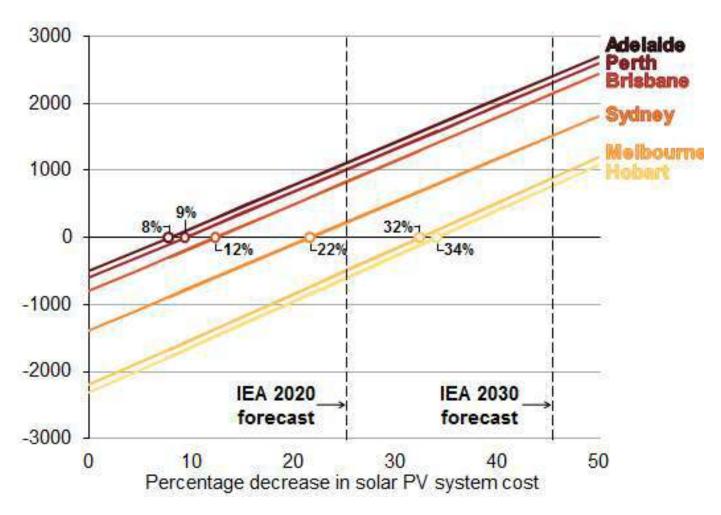






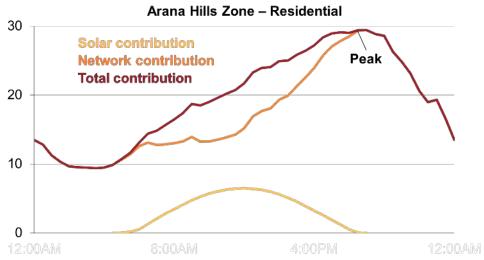
But it won't be long before solar PV is back in the money

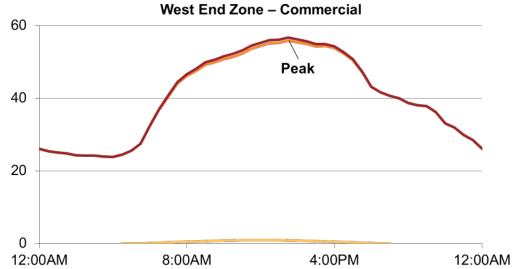
The cost of solar PV will fall even further





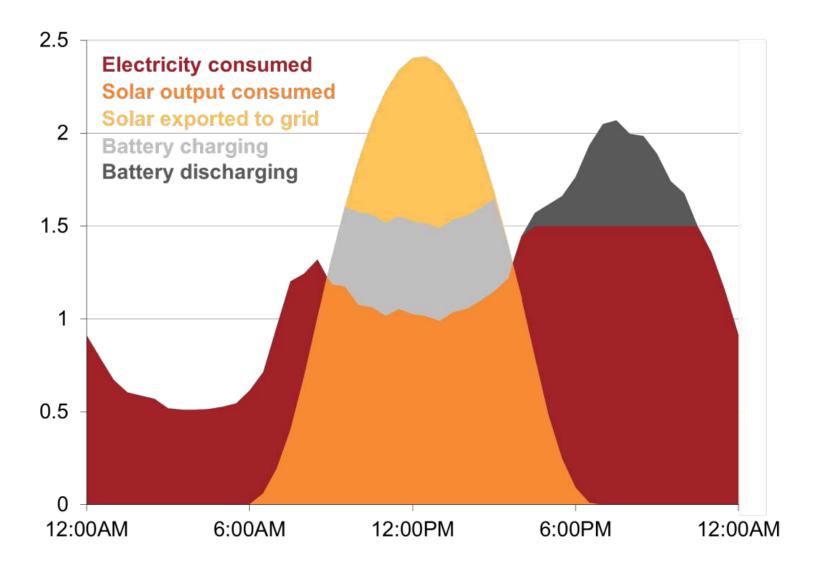
Solar PV may be limited in reducing peak demand...





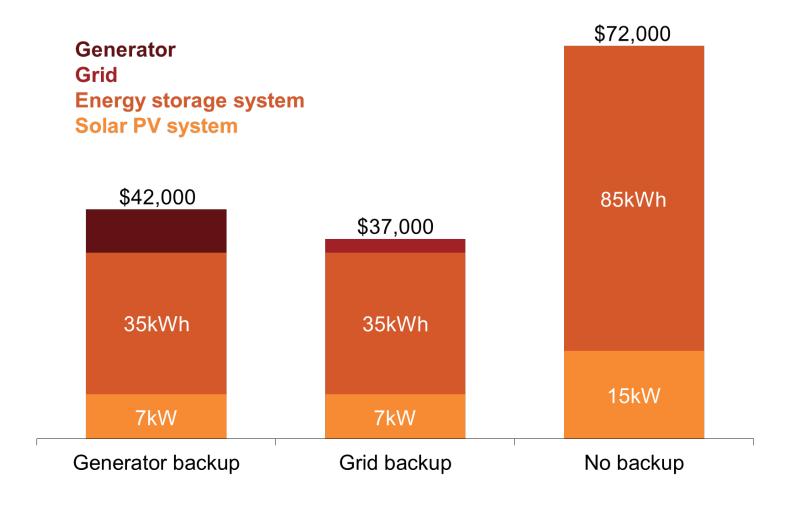


... unlike batteries





But going off-grid is unlikely for most urban households





There will be challenges for network businesses

- Death spiral unlikely
- There may still need to be asset write-downs
- Regulatory and licence conditions will need to evolve to remove barriers to efficient investment
- Stability issues will need to be overcome





- For new connections at the edge-of the grid
- For regional and remote communities and individuals
- But pricing and regulatory barriers can prevent off-grid options being realised



Getting solar PV right

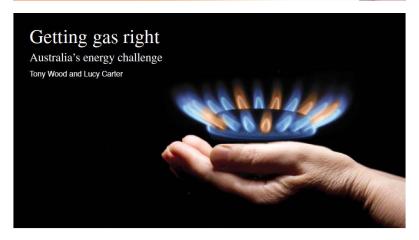
- Solar PV and storage can save all consumers money and make a contribution to reducing emissions without costing the earth
- Learn from the past. Do not put in place policies that have unintended consequences, specifically cross-subsidies.
- Get tariff reform right
 - Mandatory demand tariffs
 - Roll-out of advanced meters
 - Critical peak pricing
 - Cost-reflective feed-in tariffs
- Redundant assets will need to be addressed
- Policy and regulations need to ensure network businesses make efficient decisions
- Remove barriers to the uptake of off-grid solutions
- Get it right, and solar PV and storage can become an integral part of Australia's electricity system







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