



AUSTRALIAN ECONOMY IN FOR AN ELECTRIC SHOCK

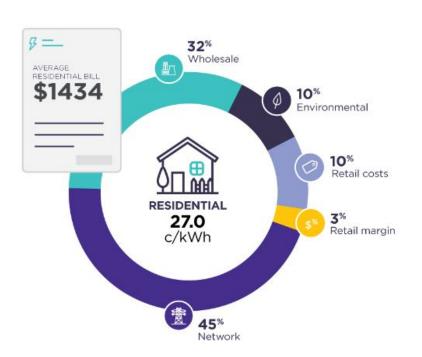
Agenda: The Preposterous Australian Energy Shock

- Global prices for key energy inputs hit home
- A brief history of gas markets
- Why Australia is different
- What to do about it
- Investment implications

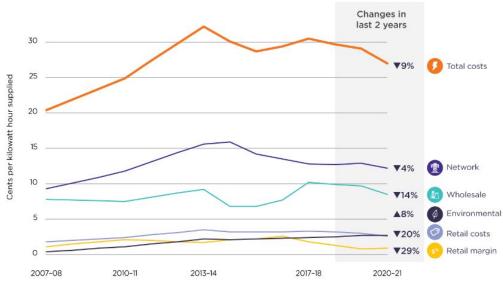
ACCC celebrating a little too early...

Cost of supplying electricity to households at an eight-year low

BREAKDOWN OF ANNUAL COSTS 2020-21

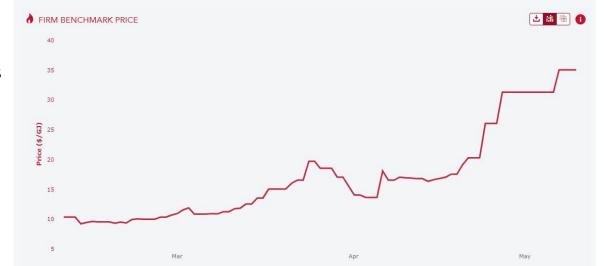


RESIDENTIAL ELECTRICITY SUPPLY COSTS OVER TIME



Global prices, local pain

- Australian gas prices are now fixed at \$40Gj vs \$4Gj
- Electricity prices \$300Mw/h vs \$50Mw/h
- Market failure
- War profiteering



A brief history of gas prices

- Traditional gas of \$3-4Gj
- Post-GFC LNG build-out
- Santos said it had enough gas. Third party purchases
- Gas is cheap
- LNG overbuilt
- Shell buys LNG trains and Arrow energy plus reserve consolidation. ACCC failure
- RSPT tax legacy
- 2014 begins the crisis

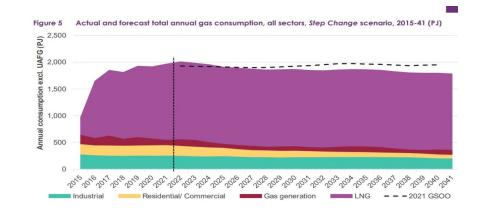


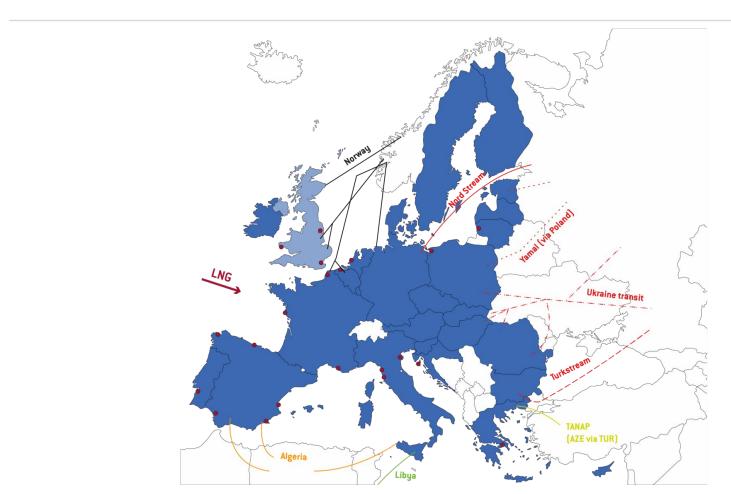
Table 3.8 Comparison of delivered costs by LNG value chain component to China's south

Export origin	Gas production (US\$/mmbtu)	Liquefaction (US\$/mmbtu)	Shipping (US\$/mmbtu)	Total cost (US\$/mmbtu)
Malaysia Borneo (Asia Pacific)	1.84	4.20	0.38	6.42
PNG (PNG LNG)	2.62	4.23	0.81	7.66
Australia West (Gorgon)	3.70	5.64	0.64	9.98
Australia East (APLNG), CSG				
low gas cost	3.54	5.15	0.85	9.54
medium gas cost	5.72	5.15	0.85	11.72
high gas cost	8.22	5.15	0.85	14.22

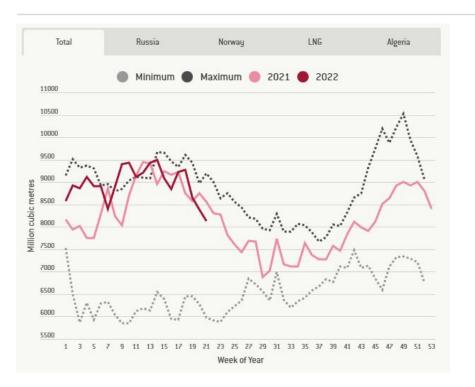
Source: The WGM and author's calculation.

Note: The shipping cost is estimated as LRMC in 2020. There could be an additional cost of US\$1.50 a mmbtu for infrastructure in PNG LNG, which would increase total cost to US\$9.16 a mmbtu, slightly lower than the total cost of LNG from Australia East with low gas cost for CSG.

European Gas Imports



European Gas Imports





Source: ENTSO-G, https://transparency.entsog.eu/#/map

Note: Minimum and Maximum values are calculated from the period 2015-2020.

Data for the last week may be changed following updates to ENTSO-6 points. As of 25/12/22, Norway imports at Emden were updated and Krk Croatian LNG was included resulting in changes to underlying data. On 01/04/2022, weeks 10,11,12 LNG data were revised downward due to a double-counting of Spanish LNG imports which arose as a result of changes to the reporting at the ENTSO-6 transparency platform.

European Gas Storage

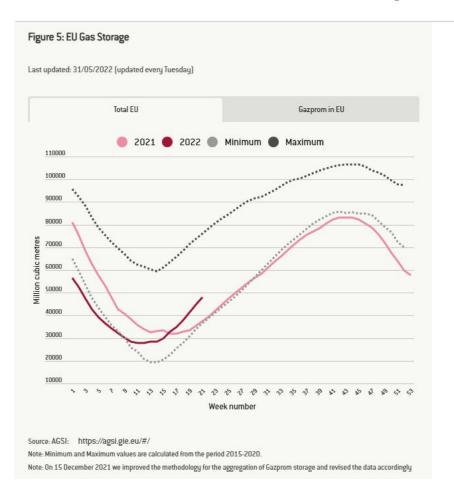
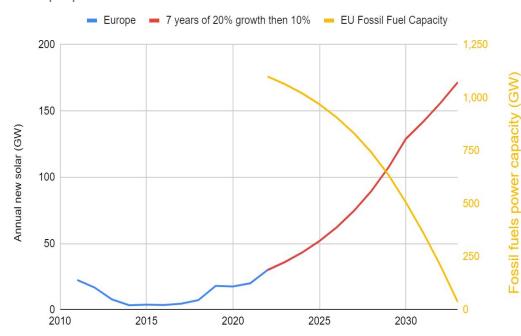


Figure 5: EU Gas Storage Last updated: 31/05/2022 (updated every Tuesday) Gazprom in EU Total EU 2021 2022 Minimum Maximum 9000 8000 7000 6000 cubic metres 5000 4000 Million 2000 1000 Week number Source: AGSI: https://agsi.gie.eu/#/ Note: Minimum and Maximum values are calculated from the period 2015-2020. Note: On 15 December 2021 we improved the methodology for the aggregation of Gazprom storage and revised the data accordingly

Global Implications

- No global energy price solution without European solution
- US have promised more gas. Prices have tripled in US (but still 70% lower than Europe). More LNG to come.
- Europe setting a path to renewables. Short term economics not the priority.
- China somewhat insulated. Vast coal reserves, increased Mongolian and Russian imports, rapid renewable growth.
- Australia (without reservation) at the mercy of world prices

Europe path to renewables



What to do about it

- More domestic production will fail
- LNG imports will fail
- 100% export levy?
- WA gas reservation & ADGSM?
- Must be expanded to coal for NSW and QLD
- Easy economically, hard politically (RSPT)
- Massive carbon tax versus carbon price







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Viewer question of the week:

Should Australia intervene in the energy markets?

Drop your answers in the comments

Investment implications

- Just the beginning if no action
- Europe marginal price setter
- RBA cornered but already priced
- Possible yield accident
- AUD and recession (house prices)
- Policy will determine earnings

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