



Approach and preliminary results



ACIL Tasman's Task

- ACIL Tasman:
 - provide expert advice on energy costs faced by retailers in 2013-14
 - must have regard to the actual costs of making, producing or supplying the goods or services.
- Goods and services customer retail services for non-market customers
 - ... the sale of electricity to the premises
- Energy costs include:
 - wholesale energy costs including effects of the carbon tax
 - costs of complying with the Queensland Gas Scheme and Enhanced Renewable Energy Target
 - NEM variable fees and variable ancillary services charges as they apply to market customers
 - losses in transmission and distribution of electricity from the reference node to end use customers.



ACIL Tasman approach

- Provide our best estimate of retailer energy costs in 2013-14 using transparent and observable data where available
- Approach to estimating wholesale energy costs:
 - estimating contract prices based on observable d-cypha futures prices
 - applying same hedging strategy used in previous years
 - modelling NEM pool market to produce 462 simulations of 2013-14 (simulations account for stochastic variation in weather effects on demand and plant availability)
 - choosing the 95th percentile of 462 simulated annual hedged prices as estimate of cost of energy – allowance for residual price and volume risk
- Estimate other energy cost components and losses applying same approach used in previous years



Preliminary Contract price estimates

Year	Quarter	Average costs of d- cypha contracts in 2013-14 (\$/MWh)				
		Base	Peak	Сар		
2014	Q1	\$66.33	\$87.75	\$14.34		
2014	Q2	\$53.15	\$59.75	\$2.74		
2013	Q3	\$53.35	\$60.72	\$3.49		
2013	Q4	\$54.77	\$65.98	\$7.47		
Average for 2013-14		\$56.90	\$68.55	\$7.01		

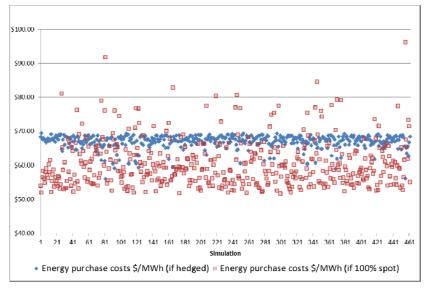
Source: ACIL Tasman analysis of d-cypha contract data until 12 November 2012

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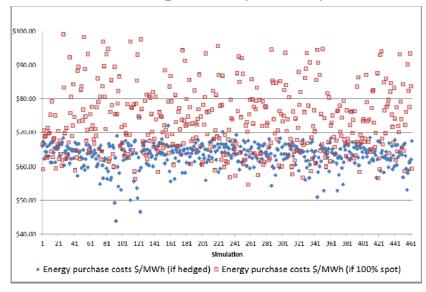


Preliminary Market simulations

Low growth (AEMO)



Medium growth (AEMO)



- Growth assumptions have material effect on simulated pool price
- Hedging substantially reduces simulations and growth assumptions variance
- Lower variance for low growth versus medium growth both hedged and unhedged



Preliminary Energy cost estimate

	Final Determination 2012-13			Preliminary 2013-14					Total Energy Purchase cost differences			
Settlement classes	Wholesale energy purchase cost at RRN (\$/MWh)	Renewable energy and market fees (\$/MWh)	Allowance for transmission and distribution losses	Total energy purchase costs - customer terminal (\$/MWh)	Low growth Wholesale energy purchase cost at RRN (\$/MWh)	Medium growth Wholesale energy purchase cost at RRN (\$/MWh)	Renewable energy and market fees (\$/MWh)	Allowance for transmission and distribution losses	Low growth Total energy purchase costs - customer terminal (\$/MWh)	Medium growth Total energy purchase costs - customer terminal (\$/MWh)	2012-13 Final less low growth Preliminary 2013-14	2012-13 Final less Medium growth Preliminary 2013-14
Prices including carbon												
Energex - NSLP - residential and small business	\$61.49	\$12.18	7.2%	\$79.41	\$68.66	\$67.33	\$10.81	7.2%	\$85.67	\$84.24	\$6.25	\$4.82
Energex - Control tariff 9000	\$41.63	\$12.18	7.3%	\$58.07	\$46.90	\$47.47	\$10.81	7.3%	\$62.28	\$62.90	\$4.21	\$4.82
Energex - Control tariff 9100	\$48.93	\$12.18	7.3%	\$65.95	\$56.67	\$56.56	\$10.81	7.3%	\$72.82	\$72.71	\$6.87	\$6.76
Energex - NSLP - unmetered supply	\$61.49	\$12.18	7.2%	\$79.41	\$68.66	\$67.33	\$10.81	7.2%	\$85.67	\$84.24	\$6.25	\$4.82
Ergon Energy - NSLP - SAC HV, CAC and ICC	\$55.93	\$12.18	\$0.09	\$74.50	\$63.33	\$62.47	\$10.81	\$0.09	\$81.10	\$80.16	\$6.60	\$5.66
Ergon Energy - NSLP - SAC demand and street lighting	\$55.93	\$12.18	\$0.13	\$78.08	\$63.33	\$62.47	\$10.81	\$0.13	\$84.99	\$84.01	\$6.92	\$5.93

Note: 2013-14 values based on 95th percentile wholesale energy cost estimates; 2012-13 values based on 50th percentile

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Preliminary Forecast growth comparison

Medium less low growth forecasts

Settlement classes	Wholesale energy purchase cost at the regional reference node (\$/MWh)		
Prices including carbon pricing			
Energex - NSLP - residential and small business	-\$1.33		
Energex - Control tariff 9000	\$0.57		
Energex - Control tariff 9100	-\$0.10		
Energex - NSLP - unmetered supply	-\$1.33		
Ergon Energy - NSLP - SAC HV, CAC and ICC	-\$0.86		
Ergon Energy - NSLP - SAC demand and street lighting	-\$0.86		

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