23 October - 29 October 2011

Summary

Weekly average spot prices ranged from \$22/MWh in Victoria to \$32/MWh in Tasmania.

Spot market prices

Figure 1 sets out the volume weighted average (VWA) prices for the week 23 October to 29 October and the 11/12 financial year to date (YTD) across the NEM. It compares these prices with price outcomes from the previous week and year to date respectively.

Figure 1: Volume weighted average spot price by region (\$/MWh)

	Qld	NSW	VIC	SA	Tas
Average price for 23 - 29 Oct 2011	29	29	22	27	32
% change from previous week*	12	1	-3	-50	3
11/12 financial YTD	28	30	29	39	30
% change from 10/11 financial YTD **	33	6	15	39	-17

^{*}The percentage change between last week's average spot price and the average price for the previous week. Calculated on VWA prices prior to rounding.

Longer term market trends are attached in Appendix A¹.

Financial markets

Figures 2 to 9 show futures contract² prices traded on the Australian Securities Exchange (ASX) as at close of trade on Monday 31 October 2011. Figure 2 shows the base futures contract prices for the next three calendar years, and the average over these three years. Also shown are percentage changes³ from the previous week.

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^{**}The percentage change between the average spot price for the current financial year and the average spot price for the previous financial year. Percentage changes are calculated on VWA prices prior to rounding.

¹ Monitoring the performance of the wholesale market is a key part of the AER's role and an overview of the market's performance in the long term is provided on the AER website. Long-term statistics can be found there on, amongst other things, demand, spot prices, contract prices and frequency control ancillary services prices. To access this information go to

www.aer.gov.au -> Monitoring, reporting and enforcement -> Electricity market reports -> Long-term analysis.

Futures contracts traded on the ASX are listed by d-cyphaTrade (www.d-cyphatrade.com.au). A futures contract is typically for one MW of electrical energy per hour based on a fixed load profile. A base load profile is defined as the base load period from midnight to midnight Monday to Sunday over the duration of the contract quarter. A peak load profile is defined as the peak-period from 7 am to 10 pm Monday to Friday (excluding Public holidays) over the duration of the contract quarter.

³ Calculated on prices prior to rounding.

Figure 2: Base calendar year futures contract prices (\$/MWh)

	QI	QLD		NSW		VIC		SA .
Calendar Year 2012	44	0%	50*	0%	44	0%	55	1%
Calendar Year 2013	53*	0%	59	0%	54	0%	58	0%
Calendar Year 2014	56	0%	59	0%	58	0%	69	0%
Three year average	51	0%	56	0%	52	0%	61	0%

Source: d-cyphaTrade www.d-cyphatrade.com.au

Figure 3 shows the \$300 cap contract price for Q1 2012 and calendar year 2012 and the percentage change⁴ from the previous week.

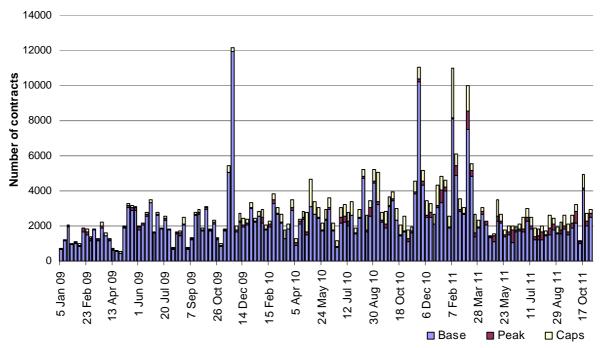
Figure 3: \$300 cap contract prices (\$/MWh)

	QI	LD	NSW		VIC		SA		
Q1 2012 (% change)	14	4%	18	16%	18*	-1%	35	3%	•
2012 (% change)	7	2%	10	7%	7	0%	13	2%	

Source: d-cyphaTrade www.d-cyphatrade.com.au * denotes trades in the product.

Figure 4 shows the weekly trading volumes for base, peak and cap contracts. The date represents the end of the trading week.

Figure 4: Number of exchange traded contracts per week



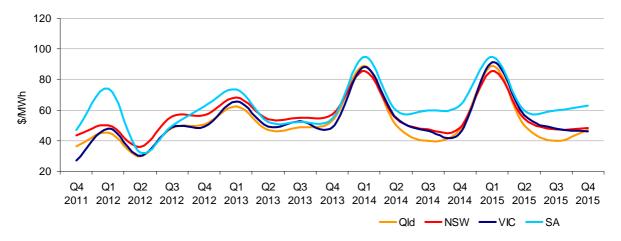
Source: d-cyphaTrade www.d-cyphatrade.com.au

Figure 5 shows the prices for base contracts for each quarter for the next four financial years.

^{*} denotes trades in the product.

Calculated on prices prior to rounding.

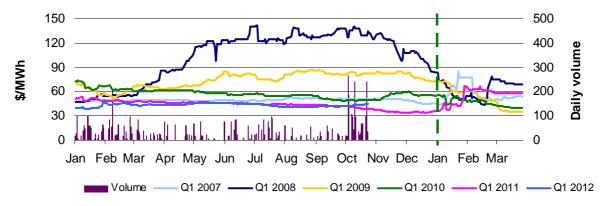
Figure 5: Quarterly base future prices Q4 2011 - Q4 2015



Source: d-cyphaTrade www.d-cyphatrade.com.au

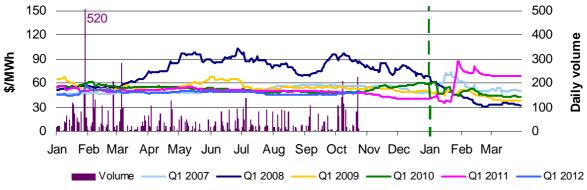
Figures 6-9 compare for each region the closing daily base contract prices for the first quarter of 2007, 2008, 2009, 2010, 2011 and 2012. Also shown is the daily volume of Q1 2012 base contracts traded. The vertical dashed line signifies the start of the Q1 period for which the contracts are being purchased. To understand the diagrams, the dark-blue line in figure 6 demonstrates that throughout the middle of 2007, the market had an expectation of very high spot prices in the first quarter of 2008.

Figure 6: Queensland Q1 2007, 2008, 2009, 2010, 2011 and 2012



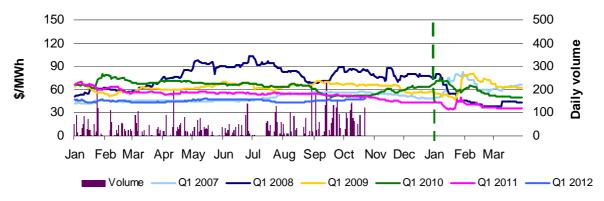
Source: d-cyphaTrade www.d-cyphatrade.com.au

Figure 7: New South Wales Q1 2007, 2008, 2009, 2010, 2011 and 2012



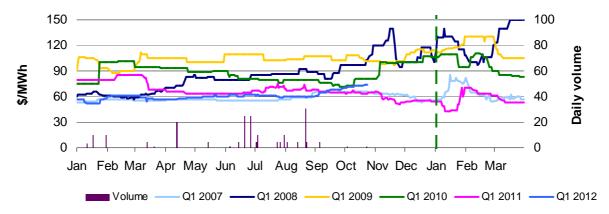
Source: d-cyphaTrade www.d-cyphatrade.com.au

Figure 8: Victoria Q1 2007, 2008, 2009, 2010, 2011 and 2012



Source: d-cyphaTrade www.d-cyphatrade.com.au

Figure 9: South Australia Q1 2007, 2008, 2009, 2010, 2011 and 2012



Source: d-cyphaTrade www.d-cyphatrade.com.au

Spot market forecasting variations

The AER is required under the National Electricity Rules to determine whether there is a significant variation between the forecast spot price published by the Australian Energy Market Operator (AEMO) and the actual spot price and, if there is a variation, state why the AER considers the significant price variation occurred. It is not unusual for there to be significant variations as demand forecasts vary and as participants react to changing market conditions. There were 143 trading intervals throughout the week where actual prices varied significantly from forecasts⁵. This compares to the weekly average in 2010 of 57 counts and the average in 2009 of 103. Reasons for these variances are summarised in Figure 10⁶.

Figure 10: Reasons for variations between forecast and actual prices

	Availability	Demand	Network	Combination
% of total above forecast	0	18	0	0
% of total below forecast	76	2	0	4

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^{*}The daily volume scale for South Australia is smaller than for other regions to reflect the lower liquidity in the market in South Australia.

⁵ A trading interval is counted as having a variation if the actual price differs significantly from the forecast price either four or 12 hours ahead.

⁶ The table summarises (as a percentage) the number of times when the actual price differs significantly from the forecast price four or 12 hours ahead and the major reason for that variation. The reasons are classified as availability (which means that there is a change in the total quantity or price offered for generation), demand forecast inaccuracy, changes to network capability or as a combination of factors (when there is not one dominant reason). An instance where both four and 12 hour ahead forecasts differ significantly from the actual price will be counted as two variations.

Demand and bidding patterns

The AER reviews demand, network limitations and generator bidding as part of its market monitoring to better understand the drivers behind price variations. Figure 11 shows the weekly change in total available capacity at various price levels during peak periods⁷. For example, in Queensland 735 MW less capacity was offered at prices under \$20/MWh this week compared to the previous week. Also included is the change in average demand during peak periods, for comparison.

Figure 11: Changes in available generation and average demand compared to the previous week during peak periods

MW	<\$20/MWh	Between \$20 and \$50/MWh	Total availability	Change in average demand
QLD	-735	175	-747	254
NSW	-41	-177	-353	43
VIC	270	91	344	-93
SA	-36	-126	-142	-99
TAS	119	-63	98	11
TOTAL	-423	-100	-800	116

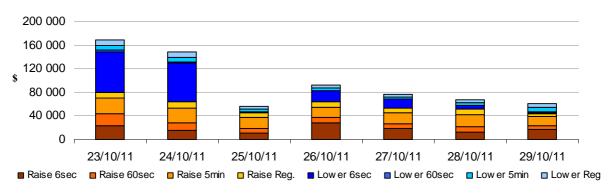
Ancillary services market

The total cost of frequency control ancillary services (FCAS) on the mainland for the week was \$385 000 or less than one per cent of energy turnover on the mainland.

The total cost of FCAS in Tasmania for the week was \$287 000 or around five per cent of energy turnover in Tasmania. With Basslink out of service from 20 October to 24 October due to a planned outage, FCAS in Tasmania was sourced locally. Increased local requirements for lower 6 second services on 23 October and 24 October resulted in costs for those services on those days of \$69 300 and \$65 500, respectively.

Figure 12 shows the daily breakdown of cost for each FCAS for the NEM.

Figure 12: Daily frequency control ancillary service cost



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⁷ A peak period is defined as between 7 am and 10 pm on weekdays.

Detailed NEM Price and Demand Trends

for Weekly Market Analysis 23 October - 29 October 2011



Table 1: Financial year to date spot market volume weighted average price

Financial year	QLD	NSW	VIC	SA	TAS
2011-12 (\$/MWh) YTD	28	30	29	39	30
2010-11 (\$/MWh) YTD	21	28	25	28	36
Change*	33%	6%	15%	39%	-17%
2010-11 (\$/MWh)	34	43	29	42	31

Table 2: NEM turnover

Financial year	NEM Turnover** (\$, billion)	Energy (TWh)
2011-12 (YTD)	\$1.995	67
2010-11	\$7.445	204
2009-10	\$9.643	206

Table 3: Recent monthly and quarterly spot market volume weighted average price and turnover

Volume weighted						Turnover
average (\$/MWh)	QLD	NSW	VIC	SA	TAS	(\$, billion)
Jun-11	26	28	29	33	30	0.447
Jul-11	27	32	31	36	34	0.508
Aug-11	29	31	31	36	29	0.483
Sep-11	29	29	28	40	27	0.427
Oct-11 (MTD)	28	29	25	44	31	0.396
Q1 2011	65	90	41	83	27	3.484
Q1 2010	46	52	67	134	27	3.014
Change*	41%	74%	-38%	-38%	2%	15.57%

Table 4: ASX energy futures contract prices at end of 31 October

	QLD		NSW		VIC		SA	
Q1 2012	Base	Peak	Base	Peak	Base	Peak	Base	Peak
Price on 24 Oct (\$/MW)	44	68	48	75	47	77	73	130
Price on 31 Oct (\$/MW)	45	69	50	79	48	79	74	130
Open interest on 31 Oct	1460	150	2019	516	2264	320	171	5
Traded in the last week (MW)	516	0	372	20	222	45	1	0
Traded since 1 Jan 11 (MW)	6599	186	8537	1094	7219	642	222	5
Settled price for Q1 11(\$/MW)	57	96	68	118	35	51	53	93

Table 5: Changes to availability of low priced generation capacity offered to the market

Comparison:	QLD	NSW	VIC	SA	TAS	NEM
August 11 with August 10						
MW Priced <\$20/MWh	-1212	-877	10	-152	-198	-2429
MW Priced \$20 to \$50/MWh	96	656	-241	57	-43	524
September 11 with September	10					
MW Priced <\$20/MWh	-856	-1281	-424	-614	-345	-3520
MW Priced \$20 to \$50/MWh	-376	1085	148	175	161	1191
October 11 with October 10 (M7	ΓD)					
MW Priced <\$20/MWh	-779	-1724	-686	-180	-727	-4095
MW Priced \$20 to \$50/MWh	-297	1266	455	126	481	2031

^{*}Note: These percentage changes are calculated on VWA prices prior to rounding ** Estimated value