# **Australian Energy Regulator logoElectricity Report**

**3 – 9 July 2016**

Introduction

The AER is required to publish the reasons for significant variations between forecast and actual price and is responsible for monitoring activity and behaviour in the National Electricity Market. The Electricity Report forms an important part of this work. The report contains information on significant price variations, movements in the contract market, together with analysis of spot market outcomes and rebidding behaviour. By monitoring activity in these markets, the AER is able to keep up to date with market conditions and identify compliance issues.

Spot market prices

Figure 1 shows the spot prices that occurred in each region during the week 3 to 9 July 2016. There was one occasion where the spot price exceeded $5000/MWh on 7 July in South Australia. The AER will be writing a report into the events on the day that caused the price to exceed $5000/MWh as required under the Rules.

Figure : Spot price by region ($/MWh)

Figure 1 shows the spot prices for this week in each region. The markers indicate the daily maximum and minimum spot prices in each region.    


Figure 2 shows the volume weighted average (VWA) prices for the current week (with prices shown in Table 1) and the preceding 12 weeks, as well as the VWA price over the previous 3 financial years.

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

Figure 2 shows the volume weighted average (VWA) prices for this week (with prices shown in Table 1) and the preceding 12 weeks, as well as the VWA price over the previous 3 financial years.    


Table : Volume weighted average spot prices by region ($/MWh)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Region | Qld | NSW | Vic | SA | Tas |
| Current week | 102 | 115 | 123 | 500 | 116 |
| 15-16 financial YTD | 30 | 37 | 35 | 59 | 35 |
| 16-17 financial YTD | 101 | 117 | 119 | 430 | 111 |

Longer-term statistics tracking average spot market prices are available on the [AER website](http://www.aer.gov.au/industry-information/industry-statistics).

Spot market price forecast 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 participants react to changing market conditions. A key focus is whether the actual price differs significantly from the forecast price either four or 12 hours ahead. These timeframes have been chosen as indicative of the time frames within which different technology types may be able to commit (intermediate plant within four hours and slow start plant within 12 hours).

There were 317 trading intervals throughout the week where actual prices varied significantly from forecasts. This compares to the weekly average in 2015 of 133 counts and the average in 2014 of 71. Reasons for the variations for this week are summarised in Table 2. Based on AER analysis, 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.

Table : Reasons for variations between forecast and actual prices

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Availability | Demand | Network | Combination |
| % of total above forecast | 5 | 47 | 0 | 1 |
| % of total below forecast | 32 | 11 | 0 | 4 |

Note: Due to rounding, the total may not be 100 per cent.

Generation and bidding patterns

The AER reviews generator bidding as part of its market monitoring to better understand the drivers behind price variations. Figure 3 to Figure 7 show, the total generation dispatched and the amounts of capacity offered within certain price bands for each 30 minute trading interval in each region.

Figure : Queensland generation and bidding patterns

"Figure 3 shows the total generation dispatched and the amounts of capacity bid in within certain price bands for each 30 minute trading interval in Queensland this week.
Should you require a description of the data for the week under review, please email us at AERInquiry@aer.gov.au."   


Figure : New South Wales generation and bidding patterns

"Figure 4 shows the total generation dispatched and the amounts of capacity bid in within certain price bands for each 30 minute trading interval in New South Wales this week.
Should you require a description of the data for the week under review, please email us at AERInquiry@aer.gov.au."   


Figure : Victoria generation and bidding patterns

"Figure 5 shows the total generation dispatched and the amounts of capacity bid in within certain price bands for each 30 minute trading interval in Victoria this week.
Should you require a description of the data for the week under review, please email us at AERInquiry@aer.gov.au."   


Figure : South Australia generation and bidding patterns

"Figure 6 shows the total generation dispatched and the amounts of capacity bid in within certain price bands for each 30 minute trading interval in South Australia this week.
Should you require a description of the data for the week under review, please email us at AERInquiry@aer.gov.au."   


The red ellipse on Figure 6 encloses a number of factors.

* The period of low/no wind that exacerbated supply conditions in South Australia.
* The close proximity of the generation line to the top of the area chart highlights the local capacity situation and the dependence on regional interchange via interconnectors.
* The variations in the volumes offered at prices less than $0/MWh (dark blue area graph for the non-wind generators). The significant increase in low priced capacity offered immediately following high dispatch prices on some occasions resulted in negative dispatch prices in intervals up to the end of the trading interval. This behaviour is financially rational: - when a high dispatch price occurs early in a settlement/trading interval, generators have the incentive to increase their output for the rest of the trading interval. They do this by quickly rebidding their capacity to low prices, thereby driving their dispatch levels up and prices down.

A more detailed explanation of the reasons for the high prices is provided in the *Detailed market analysis of significant price events* section.

Figure : Tasmania generation and bidding patterns

"Figure 7 shows the total generation dispatched and the amounts of capacity bid in within certain price bands for each 30 minute trading interval in Tasmania this week.
Should you require a description of the data for the week under review, please email us at AERInquiry@aer.gov.au."   


Frequency control ancillary services markets

Frequency control ancillary services (FCAS) are required to maintain the frequency of the power system within the frequency operating standards. Raise and lower regulation services are used to address small fluctuations in frequency, while raise and lower contingency services are used to address larger frequency deviations. There are six contingency services:

* fast services, which arrest a frequency deviation within the first 6 seconds of a contingent event (raise and lower 6 second)
* slow services, which stabilise frequency deviations within 60 seconds of the event (raise and lower 60 second)
* delayed services, which return the frequency to the normal operating band within 5 minutes (raise and lower 5 minute) at which time the five minute dispatch process will take effect.

The Electricity Rules stipulate that generators pay for raise contingency services and customers pay for lower contingency services. Regulation services are paid for on a “causer pays” basis determined every four weeks by AEMO.

The total cost of FCAS on the mainland for the week was $1 498 500 or less than 1 per cent of energy turnover on the mainland.

The total cost of FCAS in Tasmania for the week was $380 000 or around 1.5 per cent of energy turnover in Tasmania.

Figure 8 shows the daily breakdown of cost for each FCAS for the NEM, as well as the average cost since the beginning of the previous financial year.

Figure 8: Daily frequency control ancillary service cost

"Figure 8 shows the daily breakdown of cost for each FCAS for the NEM, as well as the average cost since the beginning of the previous financial year.
Should you require a description of the data for the week under review, please email us at  AERInquiry@aer.gov.au."

Figure 8 shows that daily FCAS costs were significantly higher than the average cost since the beginning of the previous financial year. The majority of the cost occurred on the mainland. The high FCAS costs were due to limited availability of low priced raise FCAS in the NEM. The maximum price for raise regulation services reached $292/MW.

Detailed market analysis of significant price events

We provide more detailed analysis of events where the spot price was greater than three times the weekly average price in a region and above $250/MWh or was below ‑$100/MWh.

## South Australia

There were thirty two occasions where the spot price in South Australia was greater than three times the South Australia weekly average price of $500/MWh and above $250/MWh.

### Wednesday, 6 July

Table 3: Price, Demand and Availability

| Time | Price ($/MWh) | | | Demand (MW) | | | Availability (MW) | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Actual | 4 hr forecast | 12 hr forecast | Actual | 4 hr forecast | 12 hr forecast | Actual | 4 hr forecast | 12 hr forecast |
| 6 am | 2490.65 | 124.99 | 299.99 | 1129 | 1155 | 1190 | 2155 | 2349 | 2270 |

Conditions at the time saw demand close to forecast and available generation around 200 MW less than forecast four hours ahead. This difference was due to wind at 375 MW, 200 MW below that forecast four hours ahead.

With no rebids of consequence, little capacity priced between $160/MWh and $10 000/MWh the lower than forecast wind generation and a small demand increase saw the dispatch price increase from $300/MWh at 5.55 am to $14 000/MWh at 6 am.

Table 4: Price, Demand and Availability

| Time | Price ($/MWh) | | | Demand (MW) | | | Availability (MW) | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Actual | 4 hr forecast | 12 hr forecast | Actual | 4 hr forecast | 12 hr forecast | Actual | 4 hr forecast | 12 hr forecast |
| 1 pm | 2064.99 | 300.50 | 13 481.81 | 1531 | 1518 | 1595 | 2073 | 2293 | 2330 |
| 5 pm | 2374.75 | 578.81 | 13 481.81 | 1757 | 1693 | 1755 | 2136 | 2183 | 2344 |
| 5.30 pm | 2139.30 | 410.76 | 10 757.81 | 1824 | 1797 | 1834 | 2260 | 2267 | 2421 |
| 6.30 pm | 2229.44 | 578.81 | 14 000.00 | 2042 | 2078 | 2091 | 2280 | 2281 | 2410 |

Conditions at the time saw demand close to forecast and availability up to 220 MW less than forecast four hours ahead. Wind generation was around 145 MW at the time of high prices.

A planned outage of the Tailem Bend West Bus and one circuit of the South East to Tailem Bend line, as part of the Heywood interconnector upgrade, and the dispatch of semi-scheduled and non-scheduled wind and thermal generation in the South East resulted in around 30 MW flowing into Victoria. Murraylink was importing at its limit of 220 MW.

Prices were forecast above $10 000/MWh 12 hours ahead but dropped to less than $600/MWh four hours ahead. This change was due to minor changes in wind forecasts and rebidding of capacity from high to low prices by Energy Australia, Engie and Snowy Hydro.

Actual prices, however, were higher than forecast four hours ahead, due to rebidding of capacity from low to high prices during a time of tight supply conditions. At 12.41 pm, effective from 12.50 pm, Snowy Hydro rebid 63 MW of capacity at Port Stanvac from the price floor to the price cap. The reason given was “12:40 A SA: act price $168.12 lower than 5mpd 12:45 @ 12:36”. This saw the price increase from $411/MWh at 12.45 am to $10 758/MWh at 12.50 pm.

For the 5 pm, 5.30 pm and 6.30 pm intervals there was little capacity available priced between $300/MWh and $10 000/MWh. With all lower priced capacity either fully dispatched or ramp rate limited the dispatch price spiked once in each interval when there was a minor increase in demand. Prices were $13 330/MWh at 4.40 pm and $10 758/MWh at 5.30 pm and 6.25 pm.

### Thursday, 7 July – South Australia

Table 5: Price, Demand and Availability

| Time | Price ($/MWh) | | | Demand (MW) | | | Availability (MW) | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Actual | 4 hr forecast | 12 hr forecast | Actual | 4 hr forecast | 12 hr forecast | Actual | 4 hr forecast | 12 hr forecast |
| 9 am | 1916.92 | 10 586.12 | 13 481.81 | 1920 | 1872 | 1898 | 2175 | 2156 | 2137 |
| 9.30 am | 1818.99 | 578.81 | 13 481.81 | 1891 | 1851 | 1880 | 2143 | 2152 | 2127 |

Conditions at the time saw demand slightly higher than forecast and availability close to forecast four hours ahead. Wind generation was up to 90 MW at the time of high prices.

Table : Rebids for 9 am trading interval

| Submitted time | Time effective | Participant | Station | Capacity rebid (MW) | Price from ($/MWh) | Price to ($/MWh) | Rebid reason |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 6.22 am |  | GDF Suez | Dry Creek | 20 | 13 990 | <300 | 0622A SA PRICE $495.10 > $299.99 30 MPD HHE 06:30 SL |
| 6.22 am |  | GDF Suez | Snuggery | 42 | 11 989 | -856 | 0622A SA PRICE $495.10 > $299.99 30 MPD HHE 06:30 SL |
| 7.08 am |  | EnergyAustralia | Hallett | 10 | 13 571 | <422 | 07:04 A BAND ADJ SA 5PD PRICES ABOVE 30PD |
| 8.37 am | 8.45 am | Snowy Hydro | Lonsdale | 20 | 14 092 | -1007 | 08:35 A SA: ACT PRICE $10,118.17 HGR THN 5MPD 08:40@08:31 |
| 8.37 am | 8.45 am | Snowy Hydro | Pt Stanvac | 61 | 14 023 | -1002 | 08:35 A SA: ACT PRICE $10,118.17 HGR THN 5MPD 08:40@08:31 |
| 8.45 am | 8.55 am | EnergyAustralia | Hallett | 15 | 13 571 | -1007 | 08:45 A BAND ADJ DUE TO PRICE ABOVE FORECAST SL |

The 9 am price was less than that forecast four and 12 hours ahead due to the above rebidding which increased the overall level of low priced capacity.

The reduction in price in the four hour forecast compared to 12 hour forecast was a result of small reduction in forecast demand.

For the 9.30 am trading interval, there was no capacity priced between $500/MWh and $11 000/MWh. The actual price was higher than the four hour forecast price as a result of an increase in actual demand.

Table 7: Price, Demand and Availability

| Time | Price ($/MWh) | | | Demand (MW) | | | Availability (MW) | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Actual | 4 hr forecast | 12 hr forecast | Actual | 4 hr forecast | 12 hr forecast | Actual | 4 hr forecast | 12 hr forecast |
| 1.30 pm | 2089.86 | 10 586.13 | 10 586.12 | 1565 | 1594 | 1567 | 2080 | 2084 | 2077 |
| 2 pm | 1963.94 | 10 586.13 | 10 586.12 | 1605 | 1594 | 1587 | 2085 | 2082 | 2076 |
| 2.30 pm | 2450.46 | 410.53 | 10 586.12 | 1632 | 1561 | 1585 | 2086 | 2099 | 2092 |
| 3 pm | 1940.90 | 300.10 | 10 586.12 | 1634 | 1532 | 1589 | 2086 | 2100 | 2092 |
| 4 pm | 2145.90 | 495.10 | 10 586.13 | 1586 | 1579 | 1632 | 2131 | 2143 | 2140 |
| 4.30 pm | 1901.42 | 13 329.90 | 10 586.12 | 1699 | 1642 | 1684 | 2208 | 2209 | 2211 |
| 5 pm | 2036.19 | 13 329.90 | 13 481.81 | 1768 | 1715 | 1747 | 2209 | 2204 | 2212 |
| 5.30 pm | 1960.53 | 13 329.90 | 10 586.12 | 1871 | 1835 | 1853 | 2209 | 2204 | 2214 |
| 6 pm | 2086.58 | 13 481.81 | 13 999.99 | 2008 | 1987 | 1995 | 2209 | 2204 | 2215 |
| 6.30 pm | 2375.11 | 14 000.00 | 14 000.00 | 2151 | 2151 | 2144 | 2208 | 2208 | 2218 |
| 7 pm | 2481.97 | 14 000.00 | 14 000.00 | 2159 | 2226 | 2206 | 2199 | 2214 | 2219 |
| 7.30 pm | 8897.80 | 14 000.00 | 14 000.00 | 2140 | 2233 | 2206 | 2221 | 2215 | 2225 |
| 8 pm | 3604.79 | 14 000.00 | 14 000.00 | 2110 | 2204 | 2177 | 2217 | 2215 | 2230 |
| 8.30 pm | 1984.87 | 13 329.90 | 14 000.00 | 2089 | 2127 | 2151 | 2214 | 2215 | 2233 |
| 9 pm | 3624.04 | 13 329.90 | 13 999.99 | 2042 | 2087 | 2106 | 2218 | 2220 | 2237 |
| 9.30 pm | 3580.14 | 13 329.90 | 13 999.99 | 1998 | 2057 | 2064 | 2216 | 2227 | 2238 |
| 10 pm | 1914.91 | 13 329.90 | 14 000.00 | 1909 | 1974 | 1985 | 2217 | 2237 | 2243 |

Events of 7 July 2016 which led to the South Australian spot price reaching $8898/MWh and the remaining prices in the above table will be discussed in the relevant spot prices above $5000/MWh report which will be available on the AER website.

### Friday, 8 July - South Australia

Table 8: Price, Demand and Availability

| Time | Price ($/MWh) | | | Demand (MW) | | | Availability (MW) | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Actual | 4 hr forecast | 12 hr forecast | Actual | 4 hr forecast | 12 hr forecast | Actual | 4 hr forecast | 12 hr forecast |
| 7.30 am | 2513.39 | 578.81 | 495.10 | 1689 | 1664 | 1670 | 2268 | 2264 | 2282 |
| 8 am | 2061.15 | 578.81 | 495.10 | 1829 | 1794 | 1791 | 2285 | 2262 | 2276 |
| 8.30 am | 2061.54 | 13 481.81 | 13 481.81 | 1936 | 1902 | 1887 | 2296 | 2257 | 2271 |

Demand and availability were slightly higher than forecast four hours ahead. Wind generation was up to 83 MW and close to forecast.

Murraylink was importing at its limit of 220 MW. The planned outage of the Tailem Bend West Bus and one circuit of the South East to Tailem Bend line and the dispatch of semi-scheduled and non-scheduled wind and thermal generation in the South East limited the interconnectors capability such that flows into South Australia varied -5 MW and 13 MW (-ve refers to flows into Victoria).

Capacity offers were such that there was only around 45 MW priced between $500/MWh and $12 500/MWh so small changes in market conditions could have a significant impact on price.

At 7.30 am there was a 40 MW increase in demand and with low-priced capacity either fully dispatched the dispatch price reached $13 330/MWh. At 7.55 am a 65 MW increase in demand resulted in a $10 758/MWh price.

The 8.30 am trading interval price was lower than forecast due to rebidding of capacity from high to low prices by Engie, Energy Australia, AGL and Origin.

Table 9: Price, Demand and Availability

| Time | Price ($/MWh) | | | Demand (MW) | | | Availability (MW) | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Actual | 4 hr forecast | 12 hr forecast | Actual | 4 hr forecast | 12 hr forecast | Actual | 4 hr forecast | 12 hr forecast |
| 6 pm | 2531.06 | 495.10 | 495.10 | 1871 | 1960 | 1920 | 2236 | 2221 | 2212 |

During the high price period Murraylink was importing at its 220 MW limit and the planned outage of the Tailem Bend West Bus and the South East to Tailem Bend line and generation in the South East resulted in flows up to 17 MW into Victoria. Wind generation was 39 MW at the time of high prices.

Table : Rebids for 6 pm trading interval

| Submitted time | Time effective | Participant | Station | Capacity rebid (MW) | Price from ($/MWh) | Price to ($/MWh) | Rebid reason |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 2.53 pm |  | Origin Energy | Quarantine | 23 | -993 | 13 239 | 1451A DEC IN SA DEM - 5PD 1446MW < 30PD 1535MW @ 1530 SL |
| 2.54 pm |  | Origin Energy | Quarantine | 23 | -993 | 13 904 | 1451A DEC IN SA DEM - 5PD 1446MW < 30PD 1535MW @ 1530 SL |
| 5.08 pm |  | Lumo | Angaston | 34 | -995 | 13 932 | 17:02 A SA: 30MPD PRICE $49.81 LWR THN 30MPD 17:35@16:32 |

Generators bids were such that there was only around 50 MW of capacity priced between $500/MWh and $12 500/MWh meaning small changes in market conditions could have a significant impact on price.

The above rebidding and a 51 MW increase in demand at 6 pm saw the dispatch price reach $13 338/MWh at 6 pm.

Table : Price, Demand and Availability

| Time | Price ($/MWh) | | | Demand (MW) | | | Availability (MW) | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Actual | 4 hr forecast | 12 hr forecast | Actual | 4 hr forecast | 12 hr forecast | Actual | 4 hr forecast | 12 hr forecast |
| 6.30 pm | 2446.95 | 13 481.81 | 14 000.00 | 2029 | 2102 | 2077 | 2224 | 2222 | 2215 |
| 7 pm | 1971.06 | 13 481.81 | 14 000.00 | 2062 | 2129 | 2133 | 2224 | 2222 | 2216 |
| 7.30 pm | 1960.20 | 13 481.81 | 14 000.00 | 2035 | 2103 | 2151 | 2232 | 2215 | 2217 |

Conditions at the time saw demand lower than forecast and availability close to that forecast. Wind generation was between 38 MW and 56 MW at the time of high prices.

Table : Rebids 6.30 pm to 7.30 pm trading intervals

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Submitted time | Time effective | Participant | Station | Capacity rebid (MW) | Price from ($/MWh) | Price to ($/MWh) | Rebid reason |
| 3.33 pm |  | GDF Suez | Snuggery | 42 | 11 989 | -856 | 1517A SA PRICE LESS THAN 30MPD: $160.98 < $299.99 HHE 16:00 |
| 5.58 pm | 6.05 pm | GDF Suez | Dry Creek | 10 | 13 990 | -999 | 1757A RESPONSE TO SA MPC @ 18:00 |
| 6.12 pm | 6.20 pm | Snowy Hydro | Lonsdale | 21 | 14 092 | -1007 | 18:10 A SA: ACT PRICE $12,919.48 HGR THN 5MPD 18:15@18:06 |
| 6.17 pm | 6.25 pm | Origin Energy | Quarantine | 24 | 13 239 | -993 | 1815A UNFORECAST DISPATCH VOLATILITY @ DI 1815 SL |
| 6.22 pm | 6.30 pm | GDF Suez | Dry Creek | 72 | >300 | -999 | 1822A RESPONSE TO SA MPC HHE 18:30 |

The 6.30 pm to 7.30 pm spot prices were lower than forecast due to the above rebidding.

Table 13: Price, Demand and Availability

| Time | Price ($/MWh) | | | Demand (MW) | | | Availability (MW) | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Actual | 4 hr forecast | 12 hr forecast | Actual | 4 hr forecast | 12 hr forecast | Actual | 4 hr forecast | 12 hr forecast |
| Midnight | 2403.45 | 184.68 | 97.19 | 1815 | 1838 | 1841 | 2313 | 2447 | 2479 |

At 11.35 pm, demand increased by 207 MW due to the hot water load. With lower priced generation fully dispatched the price increased from $87/MWh at 11.30 pm to $14 000/MWh at 11.35 pm.

## Tasmania

There were two occasions where the spot price in Tasmania was greater than three times the Tasmania weekly average price of $116/MWh and above $250/MWh.

### Saturday, 9 July

Table 14: Price, Demand and Availability

| Time | Price ($/MWh) | | | Demand (MW) | | | Availability (MW) | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Actual | 4 hr forecast | 12 hr forecast | Actual | 4 hr forecast | 12 hr forecast | Actual | 4 hr forecast | 12 hr forecast |
| 6 pm | 361.95 | 362.26 | 241.99 | 1402 | 1414 | 1425 | 2051 | 2054 | 2059 |
| 6.30 pm | 361.95 | 362.26 | 295.98 | 1400 | 1411 | 1432 | 2051 | 2052 | 2060 |

Prices were close to forecast.

## Financial markets

Figure 9 shows for all mainland regions the prices for base contracts (and total traded quantities for the week) for each quarter for the next four financial years. Two trades were recorded for South Australia Q3 2016 contracts.

Figure : Quarterly base future prices Q3 2016 – Q2 2020

Figure 9 shows for all mainland regions the prices for base contracts (and total traded quantities for the week) for each quarter for the next four financial years.     
Source. [ASXEnergy.com.au](https://asxenergy.com.au/)

Figure 10 shows how the price for each regional quarter 1 2017 base contract has changed over the last 10 weeks (as well as the total number of trades each week). The closing quarter 1 2015 and quarter 1 2016 prices are also shown. The AER notes that data for South Australia is less reliable due to very low numbers of trades and on this occasion no trades were recorded for South Australian Q1 2017 base and cap contracts.

Figure : Price of Q1 2017 base contracts over the past 10 weeks (and the past 2 years)

Figure 10 shows how the price for each regional Quarter 1 2017 base contract has changed over the last 10 weeks (as well as the total number of trades each week). The closing quarter 1 2015 and quarter 1 2016 prices are also shown. The AER notes that data for South Australia is less reliable due to very low numbers of trades.Note. Base contract prices are shown for each of the current week and the previous 9 weeks, with average prices shown for periods 1 and 2 years prior to the current year.

Source. [ASXEnergy.com.au](https://asxenergy.com.au/)

Prices of other financial products (including longer-term price trends) are available in the [Industry Statistics](http://www.aer.gov.au/industry-information/industry-statistics) section of our website.

Figure 11 shows how the price for each regional Quarter 1 2017 cap contract has changed over the last 10 weeks (as well as the total number of trades each week). The closing quarter 1 2015 and quarter 1 2016 prices are also shown.

Figure : Price of Q1 2017 cap contracts over the past 10 weeks (and the past 2 years)

Figure 11 shows how the price for each regional Quarter 1 2017 cap contract has changed over the last 10 weeks (as well as the total number of trades each week). The closing quarter 1 2015 and quarter 1 2016 prices are also shown.       
Source. [ASXEnergy.com.au](https://asxenergy.com.au/)

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