

WEEKLY GAS MARKET ANALYSIS



AUSTRALIAN ENERGY
REGULATOR

20 - 26 September 2009

Preface

As part of its monitoring roles for the National Gas Market Bulletin Board (bulletin board) and Victorian Gas Market, the AER publishes a weekly gas market report. Part A of the report looks at gas usage and flows of registered facilities in southern and eastern Australia. Part B provides a summary of operational and market data in the Victorian Gas Market.

This report will evolve over time and the nature of information presented may change. The AER welcomes feedback on the report from interested parties. Feedback can be sent to aer inquiry@ aer.gov.au, and headed 'Comments on weekly gas report.'

Summary

National Gas Market Bulletin Board

Bulletin board participants include pipeline operators and production/storage facilities in southern and eastern Australia. Participants report daily forecast and actual operational data. For the week ending 26 September 2009, Queensland Gas Company failed to provide actual flow data to the Bulletin Board Operator (BBO) for the Berwyndale South and Kenya production facilities within the specified polling times. Flows were also submitted late on one occasion by APA Group for the Moomba to Sydney Pipeline. Actual flow data for each Bulletin Board facility is provided in Appendix table A2. The AER monitors and reviews patterns of late submission of data and is engaging with facilities to ensure that in future the data requirements of the bulletin board are satisfied.

For the week ending 26 September 2009, the average amount of gas used for power generation in Tasmania increased from 4 TJ/day to 30 TJ/day. (See also Figure 2 and Figure 4). This was largely due to commissioning of the new combined cycle power plant at the Tamar Valley Power Station, which runs on gas. The combined cycle plant which began generating on 19 September, used approximately 26 TJ/day on average for the week ending 26 September, compared to 2 TJ/day in the previous week.

Victorian Gas Market

Supply Demand Point Constraints (SDPC) were issued for withdrawals at SEAGas on 21 September and for injections and withdrawals at Iona on 26 September. The market operator also issued SDPCs for injections at the Bass Gas and Longford injection points during the week. Total gas injections and withdrawals in the Victorian gas market increased by around ten per cent from the previous week. Increased demand coincided with an increase in the average daily imbalance price this week from \$1.15/GJ to \$1.48/GJ. Average market prices were noticeably lower on Monday and Thursday at \$0.60/GJ and \$0.61/GJ respectively.

Overall, there was a higher percentage of gas bid in at \$0 compared to the previous week, including at Longford and Iona. Average daily injections at Longford rose by 22 per cent to 405 TJ. On a financial year-to-date basis, average daily injections into Victoria for 2009-10 have been significantly lower than the same period in 2008-09. In particular, injections from Longford have been notably lower, accounting for just 64 per cent of all gas injected,

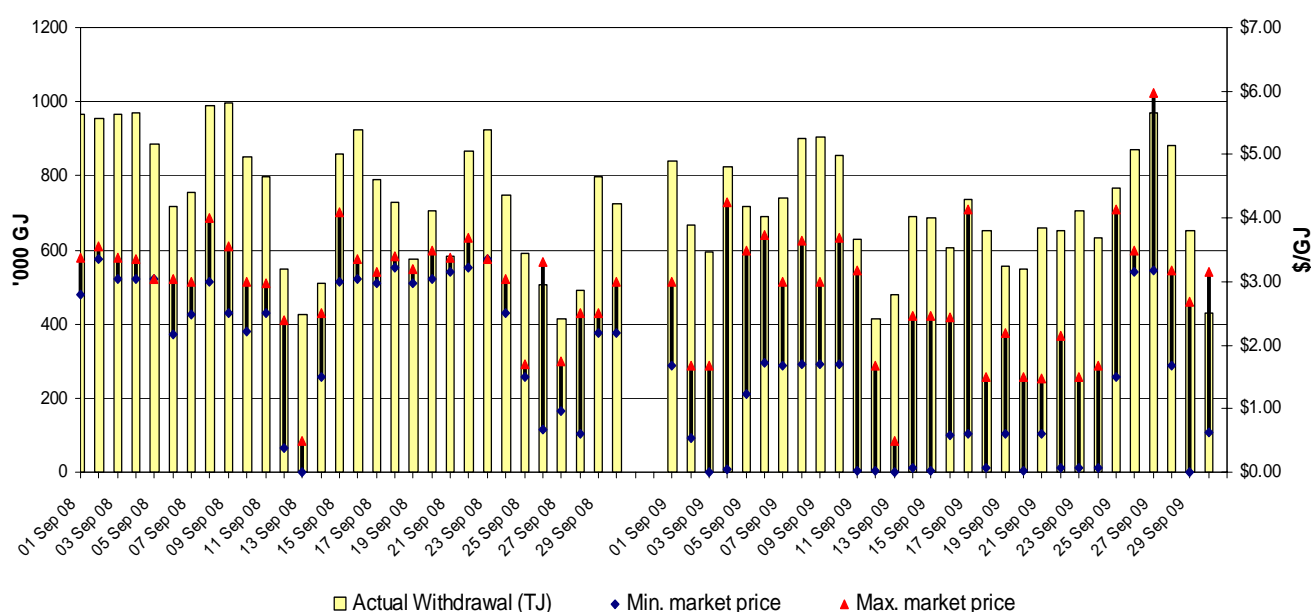
compared with 74 per cent for the same time last year. Gas on the NSW-Victoria Interconnect continued to flow into Victoria, at an average daily amount of 44 TJ, up from 40 TJ last week.

AEMO issued a negative demand override on the 23 September gas day due to market participant demand forecasts being larger than AEMO demand forecast thresholds. A positive override of 4 TJ was also applied on 25 September as participant forecasts were consistently lower than AEMO forecasts throughout the day.

Additional information — Price volatility in the Victorian gas market

Figure S1 displays the actual gas withdrawals in the Victorian gas market for the month of September 2009, comparing this to withdrawals for September 2008. The minimum and maximum market prices (\$/GJ) for each day are also provided for comparison.

Figure S1: Actual withdrawals and High-Low prices (September 2008 and September 2009)



Source: <http://www.aemo.com.au> (INT 310, INT 041)

Daily withdrawals for September 2009 have been around 50 TJ lower on average, when compared to withdrawals during September 2008. At the same time, the market has also experienced more price volatility this month compared to 12 months ago. During September 2008, the lowest market price was \$0.00/GJ and the highest was \$2.62/GJ. In contrast, the market prices for September 2009 ranged between \$0.33/GJ and \$4.20/GJ.

On a daily basis, there was an average difference of \$0.66/GJ between the highest priced schedule and the lowest priced scheduling interval in September 2008. In September 2009, the average daily difference between high and low prices has been \$1.92/GJ.

Part A: National Gas Market Bulletin Board

Overview of pipeline and production flows

Figure 1 sets out the average daily pipeline flows into each key demand region across the National Gas Market. (A list of pipeline facilities for each demand region is provided in Figure A1 of the Appendix).

Figure 1: Average daily pipeline flows (TJ) into each demand region

| Average daily flows | NSW | ACT | VIC | SA | TAS | Brisbane | QLD | |
|----------------------------------|-----|-----|-----|-----|-----|----------|--------|-----------|
| | | | | | | | Mt Isa | Gladstone |
| Current week (20 - 26 Sep) | 393 | 21 | 672 | 297 | 46 | 174 | 79 | 71 |
| Financial Year-to-date 2009-10* | 434 | 38 | 809 | 282 | 26 | 152 | 89 | 68 |
| Financial Year-to-date 2008-09** | 374 | 42 | 911 | 340 | 31 | 189 | 67 | 65 |

*Average daily estimated gas consumption measured from 1 July 2009 to the current week (inclusive)

**Average daily estimated gas consumption measured from 1 July 2008 to the equivalent week in 2008 (inclusive)

Source: National Gas Market Bulletin Board <http://www.gasbb.com.au>

Figure 2 provides the average daily amount of gas used for GPG (gas-powered generators) in each state.

Figure 2: Average daily gas (TJ) used by gas-powered generators in each state

| Average daily gas for GPG usage^ | NSW | VIC | SA | TAS | QLD |
|----------------------------------|-----|-----|-----|-----|-----|
| Current week (20 - 26 Sep) | 78 | 35 | 166 | 30 | 177 |
| Financial Year-to-date 2009-10* | 83 | 41 | 147 | 11 | 118 |
| Financial Year-to-date 2008-09** | 24 | 85 | 201 | 20 | 123 |

^Estimated values based on application of implied heat rates for generators within the demand region sourced from ACIL Tasman's 2009 Final Report 'Fuel resource, new entry and generation costs in the NEM'

*Average daily estimated gas consumption measured from 1 July 2009 to the current week (inclusive)

**Average daily estimated gas consumption measured from 1 July 2008 to the equivalent week in 2008 (inclusive)

Source: <http://www.aemo.com.au>

Notes: Data for each state collected on the following basis:

1. NSW - Smithfield Energy, Uranquinty, Hunter Valley GT, Colongra and Tallawarra power stations
2. VIC - Laverton North, Valley Power, Jeeralang A, Jeeralang B, Somerton, Bairnsdale, and Newport power stations.
3. SA - Dry Creek GT, Hallet, Pelican Point, Torrens Island, Mintaro, Osborne, Ladbroke Grove, and Quarantine power stations.
4. TAS - Bell Bay, Bell Bay Three, and Tamar Valley power stations.
5. QLD - Braemar 1, Braemar 2, Roma, Oakey, Barcaldine, and Swanbank power stations.

Figure 3 sets out the daily average flows from production and storage facilities from each production zone across the National Gas Market. (A list of production/storage facilities for each zone is provided in Figure A2 of the Appendix).

Figure 3: Daily average production flows (TJ) for each production zone

| Average daily flows | Roma/Ballera (QLD) | Eastern (VIC) | Otway Basin (VIC) | Moomba (SA) |
|-------------------------------|--------------------|---------------|-------------------|-------------|
| Current week (20 - 26 Sep) | 468 | 726 | 323 | 298 |
| Financial Year-to-date 2009* | 427 | 820 | 347 | 350 |
| Financial Year-to-date 2008** | 375 | 987 | 392 | 342 |

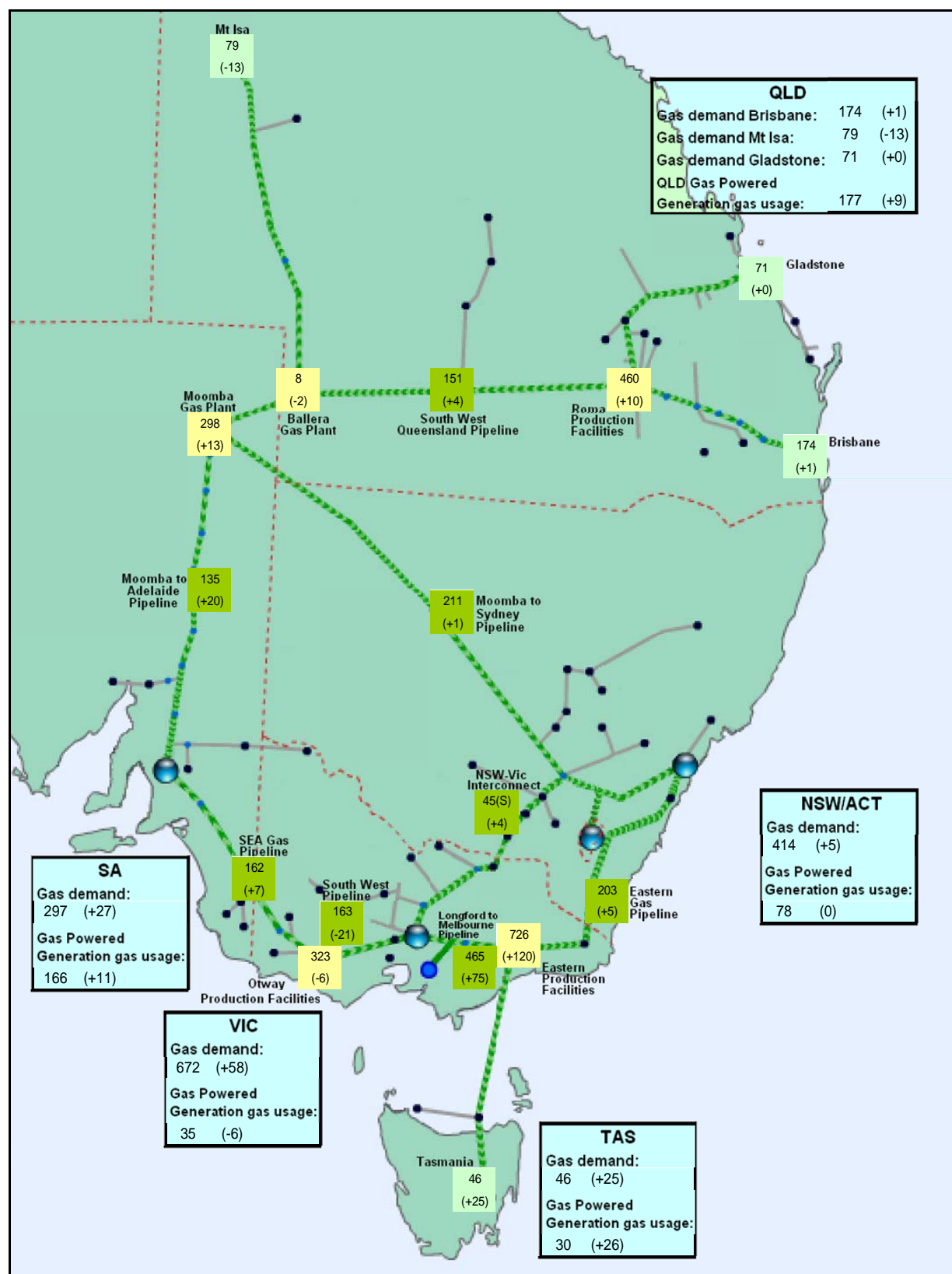
*Average daily estimated gas consumption measured from 1 July 2009 to the current week (inclusive)

**Average daily estimated gas consumption measured from 1 July 2008 to the equivalent week in 2008 (inclusive)

Source: National Gas Market Bulletin Board <http://www.gasbb.com.au>

Figure 4 below shows the changes in average daily pipeline and production flows compared to the previous week, as well as the gas demand and GPG usage of gas in each region.

Figure 4: Changes in gas demand and production and pipeline flows (TJ)



Source: Natural Gas Market Bulletin Board <http://www.gasbb.com.au>

Notes: Direction of aggregate daily flows along the NSW-Vic Interconnect indicated on map by S (South) or N (North).

Average daily production at Eastern (VIC) increased by 120 TJ, which correlated with higher flows along the Longford to Melbourne Pipeline, the Eastern Gas Pipeline, and the Tasmanian Gas Pipeline. In contrast, production at Victoria's Otway Basin fell by 6 TJ, coinciding with higher flows on the SEAGas pipeline, but lower flows along the South West Pipeline. Colder temperatures in Victoria, South Australia, and Tasmania Overall lead to

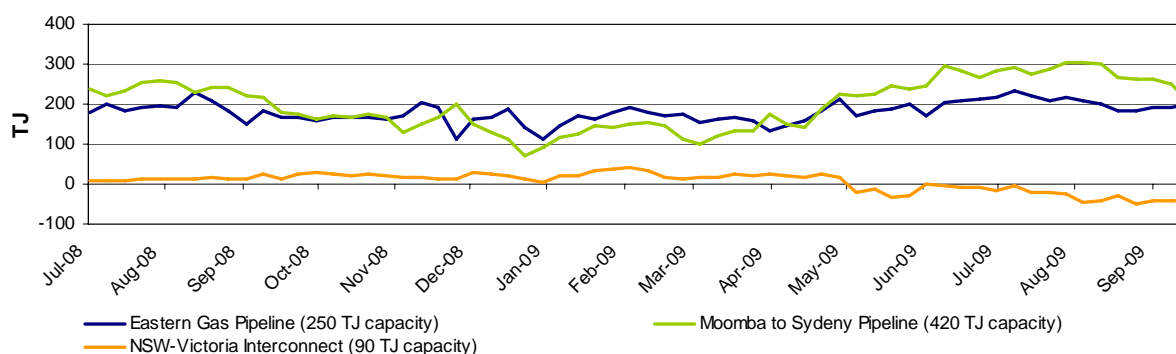
higher gas demand in these states compared to last week, with (see also Figure A3 in the Appendix). Demand was relatively flat in NSW and Queensland. The increased production from Roma and Moomba facilities were in line with increased flows along the Moomba to Adelaide Pipeline (+20 TJ); and flows also increased marginally on the Moomba to Sydney Pipeline and on the NSW-VIC interconnect, where gas continued to flow into Victoria.

Gas usage for gas-powered generation was flat in NSW and fell slightly in Victoria, but was higher in the other states compared to last week, especially in Tasmania (+26 TJ).

Gas flows into demand regions

The figures below provide the average daily flows into each of the demand region served by multiple pipelines and supply sources.

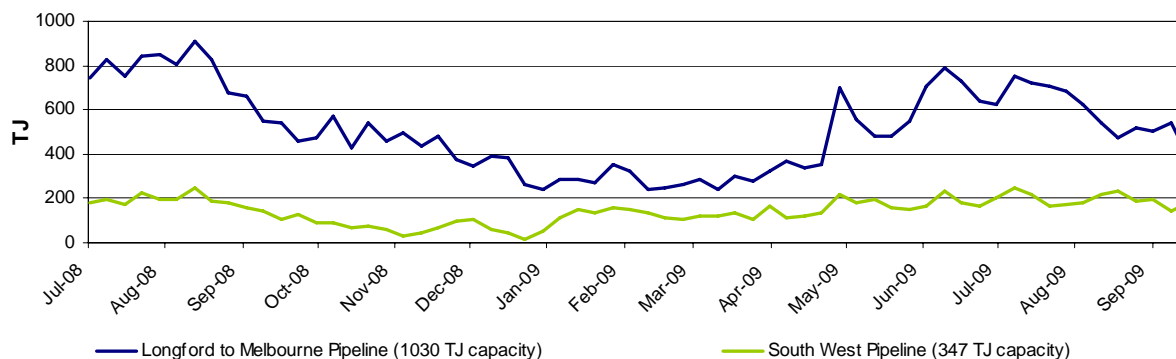
Figure 5: Average daily flows (TJ) into NSW/ACT demand region



Source: Natural Gas Market Bulletin Board <http://www.gasbb.com.au>

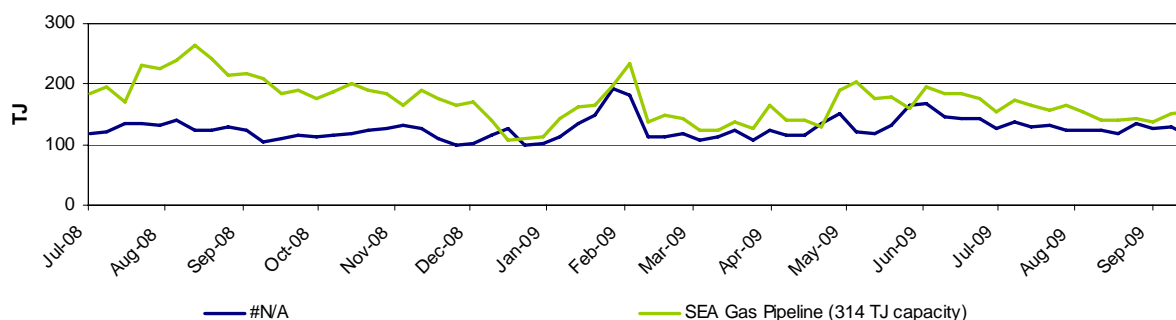
Notes: Negative flows on the NSW-Victoria Interconnect represent flows out of NSW into VIC.

Figure 6: Average daily flows (TJ) into VIC demand region



Source: Natural Gas Market Bulletin Board <http://www.gasbb.com.au>

Figure 7: Average daily flows (TJ) into SA demand region



Source: Natural Gas Market Bulletin Board <http://www.gasbb.com.au>

Part B: Victorian Gas Market

Participation in the market

Figure V1 below shows participant bids submitted at the start of the gas day (6am) at injection and withdrawal points on the Victorian Principal Transmission System (VPTS). The shaded boxes indicate that the participant submitted bids at that location on at least one occasion during the week. An “S” indicates that some of this nominated gas was scheduled into the gas market, while “NS” indicates that none of the gas was scheduled. Green shading below indicates where a change has occurred from the previous week.

Figure V1: Injection and withdrawal point bids in the VIC Gas Market[^]

| Market Participant | Participant type | No. of injection / withdrawal bid points | Injection bids in the VPTS | | | | | | | | Withdrawal bids in the VPTS | | | |
|----------------------------|-----------------------|--|----------------------------|----------|------|-----|----------|---------|--------|-------|-----------------------------|------|---------|--------|
| | | | BassGas | Culcairn | IONA | LNG | Longford | SEA Gas | VicHub | Otway | Culcairn | IONA | SEA Gas | VicHub |
| AETV Power | Trader | 1 | | | | | | | *S | | | | | *NS |
| AGL (Qld) | Retailer | 1 | | | | NS | | | | | | | | |
| AGL | Retailer | 4 | | NS | NS | NS | S | | | | NS | S | | |
| Aust. Power & Gas | Retailer | 2 | | | | NS | S | | | | | | | |
| Energy Australia | Retailer | 1 | | | | | S | | | | | | | |
| International Power | Transmission Customer | 1 | | | | | | | | | | | S | |
| Simply Energy | Retailer | 4 | | | S | NS | S | *S | | | | | | |
| Origin Energy (VIC) | Retailer | 6 | S | S | NS | NS | S | S | | | NS | NS | | |
| Origin Energy (Uranquinty) | Trader | 1 | | | | | S | | | | | | | |
| Red Energy | Retailer | 2 | | | | NS | S | | | | | | | |
| Santos | Retailer | 2 | | | | | | S | | | | | | *S |
| TRU Energy | Retailer | 4 | | | S | NS | S | | NS | | | NS | | |
| Victoria Electricity 2 | Trader | 1 | | | | | | | | | | S | | |
| Victoria Electricity | Retailer | 5 | | S | S | NS | S | S | | | | | | |
| Visy Paper | Distribution Customer | 2 | | | | | S | | | | S | | | |

[^]Bids taken from 6am data for each gas day during the current week.

Source: <http://www.aemo.com.au> (INT131)

Notes: Comparison is approximate since data represents whether bids were under or over the scheduled market clearing price at 6am. Bids are scheduled in price merit order — this means injection bids which are less than the market clearing price will be scheduled, while withdrawal bids which are greater than the market clearing price will be scheduled into the market.

Market Prices and Ancillary Payments

Figure V2 displays volume-weighted average daily imbalance prices, compared to the 2009-10 financial year-to-date average and the 2008-09 equivalent. Daily imbalance prices for each day during the current week are also noted.

Figure V2: Imbalance Weighted Prices (\$/GJ)

| | Current Week (20 - 26 Sep) | Previous Week (13 - 19 Sep) | 2009-10 Financial YTD* | 2008-09 Financial YTD** |
|---------------------|-------------------------------|--------------------------------|---------------------------|----------------------------|
| Average daily price | 1.48 | 1.15 | 1.66 | 3.05 |

| Current Week (20 - 26 Sep) | Sun | Mon | Tue | Wed | Thu | Fri | Sat |
|-------------------------------|------|------|------|------|------|------|------|
| Daily price | 1.43 | 0.60 | 1.49 | 1.41 | 0.61 | 1.63 | 3.19 |

*Average daily estimated gas consumption measured from 1 July 2009 to the current week (inclusive)

**Average daily estimated gas consumption measured from 1 July 2008 to the equivalent week in 2008 (inclusive)

Source: <http://www.aemo.com.au> (INT 041)

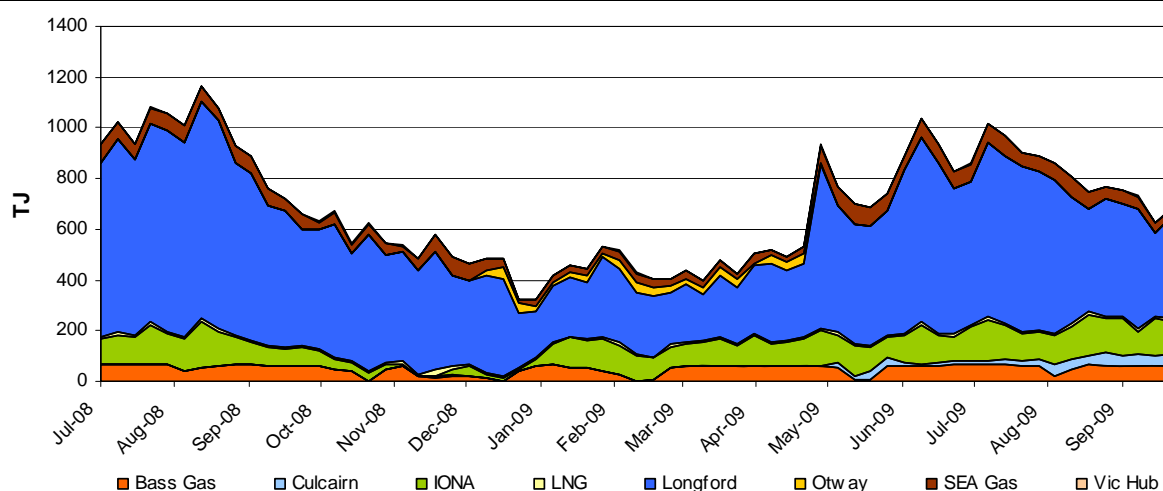
Notes: The daily average market price is a volume weighted imbalance price taking account of trading amounts at five times through the gas day — 6am, 10am, 2pm, 6pm and 10pm.

System Injections

Figure V3 notes the average daily injections into the VPTS for the current week, compared with the 2009-10 and 2008-09 equivalent financial year-to-date daily averages

Figure V3: Average daily flows (TJ) from Injection Points on the VPTS

| Injection Point: | Current Week (20 - 26 Sep) | Previous Week (13 - 19 Sep) | 2009-10 Financial YTD* | 2008-09 Financial YTD** |
|------------------|-------------------------------|--------------------------------|---------------------------|----------------------------|
| Culcairn | 44 | 40 | 33 | 0.1 |
| Longford | 405 | 331 | 524 | 701 |
| LNG | 10 | 7 | 9 | 9 |
| IONA | 131 | 147 | 133 | 112 |
| VicHub | 1.6 | 0.4 | 0.9 | 0.6 |
| SEAGas | 30 | 35 | 60 | 65 |
| Bass Gas | 63 | 61 | 59 | 62 |
| Otway | 0 | 0 | 0 | 0 |
| TOTAL | 683 | 623 | 819 | 949 |



*Average daily estimated gas consumption measured from 1 July 2009 to the current week (inclusive)

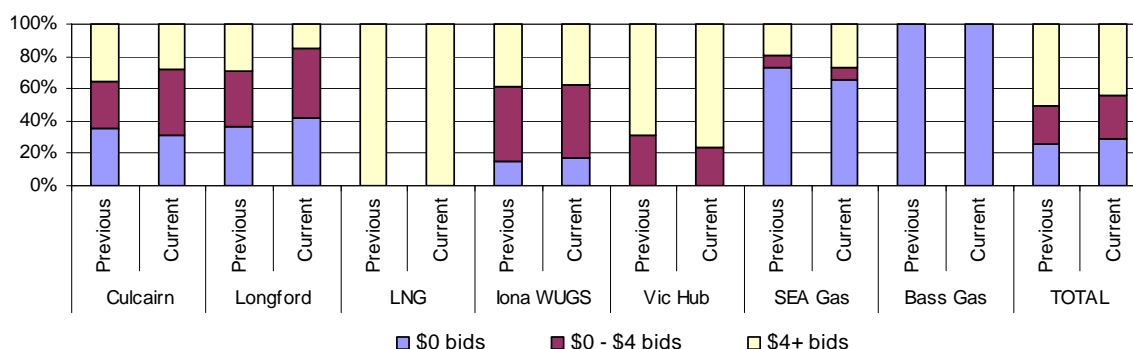
**Average daily estimated gas consumption measured from 1 July 2008 to the equivalent week in 2008 (inclusive)

Source: <http://www.aemo.com.au> (INT 150)

Bidding Activity

Figure V4 shows the price structure of gas bid at each of the injection points on the VPTS, within three price bands of \$0/GJ, \$0/GJ to \$4/GJ, and \$4/GJ and above.

Figure V4: Price structure of bids by injection points



Source: <http://www.aemo.com.au> (INT 131) - bids submitted for the 6am schedule on each day of the week.

Notes: Figures in the table are rounded off the nearest round number (TJ); the maximum allowable bid is \$800/GJ.

Figure V5 provides a table of injection points on the VPTS where market participants submitted intra-day renominations, for each day of the week.

Figure V5: Intra-day rebidding of gas injections

| Injection Point: | Sun | Mon | Tue | Wed | Thu | Fri | Sat |
|------------------|-------------------------|-------------------------|-------------------------|----------------------|-------------------------|-------------------------|-------------|
| Culcairn | Origin | | | | | | |
| Longford | AGL Origin TRU | AGL Origin TRU | AGL Origin TRU | AGL Origin TRU | AGL Origin TRU | AGL Origin TRU | AGL TRU |
| LNG | | | | | | Origin | TRU |
| Iona | Simply Origin TRU | Simply Origin TRU | Simply Origin TRU | Simply Origin | Simply Origin TRU | Simply Origin TRU | |
| VicHub | TRU | | | | | AETV | AETV TRU |
| SEAGas | Simply | | Simply | Simply | Simply | Simply | Simply |
| Bass Gas | | | | | | | |

Source: <http://www.aemo.com.au> (INT 131)

Notes: Origin = Origin Energy | AGL = AGL Sales | TRU = TRUenergy | Simply = Simply Energy | AETV = AETV Power

System withdrawals

Figure V6 notes the average daily gas usage on the VPTS for this week, compared with the 2009-10 financial year-to-date daily average, as well as the 2008-09 equivalent.

Figure V6: Average daily withdrawals (TJ) from system demand zones on the VPTS

| System withdrawal zone: | Current Week (20 - 26 Sep) | Previous Week (13 - 19 Sep) | 2009 Financial YTD* | 2008 Financial YTD** |
|-------------------------|-------------------------------|--------------------------------|------------------------|-------------------------|
| Ballarat | 29 | 26 | 38 | 41 |
| Geelong^ | 83 | 80 | 94 | 111 |
| Gippsland | 51 | 48 | 56 | 62 |
| Melbourne | 484 | 444 | 582 | 653 |
| Northern | 55 | 52 | 69 | 85 |
| TOTAL | 704 | 650 | 839 | 952 |

^Data presented for the Geelong also includes withdrawals for the Western system withdrawal zone or Western Transmission System (WTS). Typical WTS demand is understood to be around 10 TJ based on AEMO planning documents.

*Average daily estimated gas consumption measured from 1 July 2009 to the current week (inclusive)

**Average daily estimated gas consumption measured from 1 July 2008 to the equivalent week in 2008 (inclusive)

Source: <http://www.aemo.com.au> (INT 150).

APPENDIX

Figures A1 and A2 display the daily gas flows from each pipeline and production/storage facility in the National Gas Market over the current week. The nameplate capacity or MDQ (Maximum Daily Quantity) for each facility are also provided, along with the proportion of MDQ used on average over the current week and the year to date at each facility. Flow data not provided by bulletin board polling time is indicated by N/A.

Figure A1: Daily flows (TJ) for pipeline facilities capacity

| Demand zone and pipeline facility | Sun | Mon | Tue | Wed | Thu | Fri | Sat | MDQ (TJ) | YTD average capacity usage (%) | Current week average daily flows | Current YTD average daily flows* | Previous YTD average daily flows** |
|-----------------------------------|-----|-----|-----|-----|-----|-----|-----|----------|--------------------------------|----------------------------------|----------------------------------|------------------------------------|
| QLD | | | | | | | | | | | | |
| Carpentaria Pipeline | 0 | 93 | 93 | 91 | 91 | 92 | 91 | 117 | 76 | 79 | 89 | 67 |
| QLD Gas Pipeline | 72 | 74 | 72 | 68 | 68 | 72 | 69 | 79 | 86 | 71 | 68 | 65 |
| Roma to Brisbane Pipeline | 153 | 184 | 184 | 189 | 184 | 174 | 150 | 208 | 73 | 174 | 152 | 189 |
| South West QLD Pipeline | 174 | 162 | 118 | 143 | 143 | 141 | 174 | 168 | 95 | 151 | 159 | 73 |
| NSW/ACT | | | | | | | | | | 414 | 472 | 416 |
| Eastern Gas Pipeline | 186 | 210 | 216 | 216 | 217 | 210 | 166 | 250 | 81 | 203 | 202 | 188 |
| Moomba to Sydney Pipeline | 165 | 216 | 198 | 244 | 233 | 208 | N/A | 420 | 64 | 211 | 270 | 227 |
| NSW-VIC Interconnect^ | -51 | -51 | -16 | -52 | -45 | -48 | -56 | 90 | -36 | -45 | -33 | 14 |
| VIC | | | | | | | | | | 672 | 809 | 911 |
| Longford to Melbourne | 350 | 391 | 454 | 501 | 398 | 460 | 697 | 1030 | 56 | 465 | 580 | 731 |
| South West Pipeline | 141 | 194 | 189 | 144 | 154 | 230 | 86 | 347 | 56 | 163 | 195 | 180 |
| SA | | | | | | | | | | 297 | 282 | 340 |
| Moomba to Adelaide Pipeline | 80 | 132 | 146 | 156 | 137 | 160 | 137 | 253 | 51 | 135 | 128 | 125 |
| SEA Gas Pipeline | 148 | 171 | 195 | 154 | 157 | 180 | 129 | 314 | 49 | 162 | 154 | 215 |
| TAS | | | | | | | | | | | | |
| Tasmanian Gas Pipeline | 43 | 41 | 42 | 40 | 52 | 51 | 50 | 129 | 20 | 46 | 26 | 31 |

*Average daily estimated gas consumption measured from 1 July 2009 to the current week (inclusive)

**Average daily estimated gas consumption measured from 1 July 2008 to the equivalent week in 2008 (inclusive)

^Negative figure represents a reverse flow of gas along the pipeline

Source: Natural Gas Market Bulletin Board <http://www.gasbb.com.au>

Notes: Operational ranges for each pipeline facility range from a minimum of 20% to a maximum of 120% of the respective MDQs. The exceptions are the South West Queensland Pipeline and the NSW-VIC Interconnect which have minimum operational ranges of 40% and 0% of MDQ respectively.

Figure A2: Daily flows (TJ) for BB production / storage facilities compared to operational ranges and use of production/storage capacity

| Production zone and production / storage facility | Sun | Mon | Tue | Wed | Thu | Fri | Sat | MDQ (TJ) | YTD average capacity usage* (%) | Current week average daily flows | Current YTD average daily flows* | Previous YTD average daily flows** |
|---|-----|-----|-----|-----|-----|-----|-----|----------|---------------------------------|----------------------------------|----------------------------------|------------------------------------|
| Roma / Ballera (QLD) | | | | | | | | | | 468 | 427 | 375 |
| Berwyndale South | 87 | 97 | 95 | N/A | N/A | N/A | N/A | 140 | 59 | 93 | 83 | 71 |
| Fairview | 113 | 116 | 104 | 113 | 118 | 114 | 115 | 115 | 95 | 113 | 110 | 66 |
| Kenya^ | 41 | 46 | 46 | N/A | N/A | N/A | N/A | 160 | 17 | 44 | 27 | |
| Kincora | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 4 | 0 | 1 | 9 |
| Kogan North | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 12 | 58 | 9 | 7 | 13 |
| Peat | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 15 | 66 | 7 | 10 | 10 |
| Rolleston | 11 | 12 | 12 | 12 | 12 | 11 | 11 | 30 | 37 | 12 | 11 | 12 |
| Scotia | 25 | 25 | 24 | 25 | 26 | 25 | 25 | 27 | 60 | 25 | 16 | 23 |
| Spring Gully | 46 | 52 | 50 | 51 | 52 | 52 | 52 | 60 | 87 | 51 | 52 | 57 |
| Strathblane | 46 | 52 | 50 | 51 | 52 | 52 | 52 | 60 | 87 | 51 | 52 | 49 |
| Talooka | 28 | 32 | 30 | 31 | 31 | 31 | 31 | 36 | 88 | 31 | 32 | 0 |
| Wallumbilla | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 20 | 47 | 12 | 9 | 12 |
| Yellowbank | 15 | 14 | 13 | 12 | 10 | 14 | 13 | 30 | 50 | 13 | 15 | 15 |
| Ballera | 0 | 0 | 30 | 6 | 6 | 13 | 0 | 150 | 2 | 8 | 2 | 39 |
| Eastern (VIC) | | | | | | | | | | 726 | 820 | 987 |
| Orbost Gas Plant | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 |
| Lang Lang Gas Plant | 64 | 64 | 59 | 61 | 63 | 63 | 64 | 70 | 83 | 63 | 58 | 62 |
| Longford Gas Plant | 530 | 613 | 660 | 594 | 668 | 715 | 863 | 1140 | 67 | 663 | 762 | 924 |
| LNG Storage Dandenong | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 158 | 0 | 0 | 0 | 0 |
| Otway Basin (VIC) | | | | | | | | | | 323 | 347 | 392 |
| Minerva Gas Plant | 66 | 71 | 71 | 71 | 71 | 61 | 61 | 94 | 80 | 68 | 75 | 97 |
| Otway Gas Plant | 79 | 120 | 116 | 124 | 151 | 149 | 138 | 206 | 68 | 125 | 140 | 178 |
| Iona Underground Gas Storage | 139 | 172 | 166 | 128 | 131 | 178 | 0 | 320 | 41 | 131 | 132 | 118 |
| Moomba (SA) | | | | | | | | | | | | |
| Moomba Gas Plant | 229 | 265 | 270 | 331 | 307 | 337 | 346 | 380 | 92 | 298 | 350 | 342 |

*Average daily estimated gas consumption measured from 1 July 2009 to the current week (inclusive)

**Average daily estimated gas consumption measured from 1 July 2008 to the equivalent week in 2008 (inclusive)

^Commissioned as a Bulletin Board facility from 6 July 2009 (Facility began reporting flows from 7 July 2009)

Source: Natural Gas Market Bulletin Board <http://www.gasbb.com.au>

Notes: Operational ranges for each production and storage facility range from minimum of 0% to a maximum of 120 per cent of the respective MDQs. The exception is the Longford Gas Plant which has a minimum operational range of 20% of its MDQ.

Figure A3 provides the average minimum and maximum temperatures for each of the demand regions for the current week. The average temperatures for the previous week are also provided. (Note: only the demand regions where temperature is a driver of gas demand are included).

Figure A3: Average daily temperatures (°C) at each demand region

| Average daily temperatures (°C) | | NSW (Sydney) | ACT (Canberra) | VIC (Melbourne) | SA (Adelaide) | TAS (Hobart) |
|--------------------------------------|--------------|-----------------|-------------------|--------------------|------------------|-----------------|
| Current Week (20 - 26 September) | Average min. | 15.6 | 6.0 | 10.4 | 10.0 | 7.2 |
| | Average max. | 24.9 | 17.6 | 18.1 | 17.3 | 15.3 |
| Previous Week (13 - 19 September) | Average min. | 16.2 | 6.5 | 10.6 | 10.8 | 8.6 |
| | Average max. | 24.4 | 21.3 | 19.8 | 20.6 | 17.7 |

Source: <http://www.bom.gov.au/climate/dwo>

Figure A4 shows the market prices at each of the scheduling intervals on each day during the current week. The imbalance weighted average prices for each gas day are also provided.

Figure A4: Daily Victorian gas market prices (\$/GJ) at each scheduling interval

| Current Week (20 - 26 September) | Scheduling Interval | | | | | Daily Imbalance Weighted Average Price |
|-------------------------------------|---------------------|------|------|------|------|--|
| | 6am | 10am | 2pm | 6pm | 10pm | |
| Sun | 1.49 | 0.60 | 0.60 | 0.60 | 0.03 | 1.43 |
| Mon | 0.60 | 0.60 | 0.60 | 0.60 | 1.49 | 0.60 |
| Tue | 1.49 | 1.49 | 1.68 | 2.15 | 0.07 | 1.49 |
| Wed | 1.50 | 0.60 | 0.60 | 0.07 | 0.07 | 1.41 |
| Thu | 0.60 | 0.60 | 1.68 | 0.49 | 0.08 | 0.61 |
| Fri | 1.49 | 2.70 | 2.12 | 2.99 | 4.13 | 1.63 |
| Sat | 3.19 | 3.49 | 3.17 | 3.17 | 3.16 | 3.19 |

Source: <http://www.aemo.com.au> (INT 041).

Figure A5 compares the market participants and market operator demand forecasts and each of the scheduling intervals on each gas day during the current week. Total actual demand for each gas day is also provided, along with the total demand override (if any) from AEMO.

Figure A5: Daily demand forecasts (TJ) and daily demand overrides (TJ)

| Gas Day | Forecasts (TJ) | Schedule | | | | | Total Demand Override Applied (TJ) |
|---------|---------------------------------|----------|------|------|------|------|------------------------------------|
| | | 1 | 2 | 3 | 4 | 5 | |
| 20-Sep | MP Demand: | 610 | 604 | 603 | 599 | 599 | 0 |
| | AEMO Demand: | 573 | 562 | 562 | 579 | 542 | |
| | MP demand forecast as % of AEMO | 106% | 107% | 107% | 103% | 111% | |
| 21-Sep | MP: | 640 | 644 | 643 | 652 | 652 | 0 |
| | AEMO: | 626 | 634 | 613 | 620 | 637 | |
| | MP demand forecast as % of AEMO | 102% | 102% | 105% | 105% | 102% | |
| 22-Sep | MP: | 630 | 639 | 652 | 655 | 654 | 0 |
| | AEMO: | 615 | 641 | 660 | 659 | 685 | |
| | MP demand forecast as % of AEMO | 102% | 100% | 99% | 99% | 95% | |
| 23-Sep | MP: | 759 | 754 | 761 | 752 | 753 | -1 |
| | AEMO: | 718 | 706 | 722 | 695 | 706 | |
| | MP demand forecast as % of AEMO | 106% | 107% | 105% | 108% | 107% | |
| 24-Sep | MP: | 650 | 643 | 650 | 637 | 636 | 0 |
| | AEMO: | 637 | 646 | 677 | 648 | 606 | |
| | MP demand forecast as % of AEMO | 102% | 100% | 96% | 98% | 105% | |
| 25-Sep | MP: | 657 | 670 | 568 | 583 | 583 | 4 |
| | AEMO: | 711 | 727 | 737 | 708 | 765 | |
| | MP demand forecast as % of AEMO | 92% | 92% | 77% | 82% | 76% | |
| 26-Sep | MP: | 826 | 832 | 846 | 850 | 848 | 0 |
| | AEMO: | 827 | 827 | 830 | 874 | 835 | |
| | MP demand forecast as % of AEMO | 100% | 101% | 102% | 97% | 102% | |

Source: <http://www.aemo.com.au> (INT 108, INT 126, INT 153)