

20 – 26 May 2012

Weekly summary

Average ex ante prices have increased in Brisbane and Sydney compared to the previous week while remaining relatively stable in Victoria and Adelaide. Sydney saw prices above \$4/GJ on most days of the week, with prices reaching \$5.25 in both the ex ante and ex post schedules (on Sunday and Thursday respectively).

Long term statistics and explanatory material

A range of longer term data covering gas prices, flows and demand is available on the AER's website at <http://www.aer.gov.au/node/456>. Also available on the AER's website at <http://www.aer.gov.au/node/451> is a document explaining how to interpret the data provided in each weekly gas market report.

Market overview

Figure 1 sets out the average daily prices (\$/GJ) in the Victorian Declared Wholesale Market (**VGM or Victorian gas market**) and for the Sydney (**SYD**), Adelaide (**ADL**) and Brisbane (**BRI**) Short Term Trading Market hubs (**STTM**) for the current week compared to historical averages.

Figure 1: Average daily prices – all markets (\$/GJ)¹

	Victoria	Sydney	Adelaide	Brisbane
20 May - 26 May 2012	3.64	4.12	3.78	4.45
% change from previous week	-1	14	0	17
11-12 financial YTD	3.10	3.17	3.68	3.31
% change from previous financial YTD	34	15	20	-

Figure 2 compares average weekly gas prices, ancillary market payments and scheduled injections against historical averages for the Vic gas market.

Figure 2: Victorian gas market

	Price (\$/GJ)	Ancillary payments (\$000)	BOD forecast demand quantity (TJ)
20 May - 26 May 2012	3.64	-	782
% change from previous week	-1	-	4
11-12 financial YTD	3.10	-	546
% change from previous financial YTD	34	-	-7

*Note: From February 18, only positive ancillary payments, reflecting system constraints will be shown here

More detailed analysis on the Victorian declared wholesale market is provided in Section 1.

¹ The weighted average daily imbalance price applies for Victoria.

Figures 3 to 5 show average ex ante and ex post gas prices, MOS balancing gas service payments together with the related daily demand quantities against historical averages for the Sydney, Adelaide and Brisbane wholesale gas markets, respectively.

Figure 3: Sydney STTM

	Ex ante price (\$/GJ)	Ex post price (\$/GJ)	MOS payments (\$000)	Ex ante quantity (TJ)	Ex post quantity (TJ)
20 May - 26 May 2012	4.12	4.39	29.91	281	286
% change from previous week	14	20	-15	6	8
11-12 financial YTD	3.17	2.94	37.52	229	225
% change from previous financial YTD	15	-46	12	-5	-8

Figure 4: Adelaide STTM

	Ex ante price (\$/GJ)	Ex post price (\$/GJ)	MOS payments (\$000)	Ex ante quantity (TJ)	Ex post quantity (TJ)
20 May - 26 May 2012	3.78	3.88	5.95	85	86
% change from previous week	0	2	217	7	9
11-12 financial YTD	3.68	3.63	10.12	67	65
% change from previous financial YTD	20	13	-44	11	5

Figure 5: Brisbane STTM

	Ex ante price (\$/GJ)	Ex post price (\$/GJ)	MOS payments (\$000)	Ex ante quantity (TJ)	Ex post quantity (TJ)
20 May - 26 May 2012	4.45	3.59	6.62	162	159
% change from previous week	17	0	-3	2	1
From market start (1 Dec)	3.31	3.02	10.19	154	151

More detailed analysis of the STTM hubs is found in sections 2 to 4.

Section 5 provides analysis on production and pipeline flows on the National Gas Bulletin Board, as well as gas-powered generation volumes in each state.

Significant Market Events or Issues this week

The maximum temperature reached only 11°C in Melbourne on Friday 25 May, resulting in high gas heating demand and consequent gas injections of close to 1 PJ.

Problems with gas supply quality upstream of the Longford injection point saw Longford injections de-rated from around 5 pm. This caused only 62 per cent of gas in the market to be supplied from Longford on 25 May (down from the May average up to that point of 73 per cent).

As a result of issues at Longford, demand was otherwise scheduled to be supplied on the South West Pipeline (SWP). However, the amount of demand which could be met by supply west of

Melbourne was restricted by the transportation capacity of the SWP, which is limited to approximately 15.5 TJ/hr.

The high demand, coupled with the issues at Longford and capacity constrained flows on the SWP later in the gas day, led to the requirement for LNG at 6 pm. The Dandenong facility (close to Melbourne) had its LNG injections scheduled as the next cheapest available gas in merit order. With LNG scheduled at higher prices, the 6 pm price increased to \$6.19/GJ (the highest schedule price since 8 June 2011).

Detailed Market Analysis

20 – 26 May 2012

1 Victorian Declared Wholesale Market

In the Victorian Gas Market gas is priced five times daily at 6 am, 10 am, 2 pm, 6 pm and 10 pm. However, the volume weighted gas price on a gas day tends towards the 6 am price which is the schedule at which most gas is traded.

The main drivers of price are demand forecasts together with bids to inject or withdraw gas from the market. For each of the five gas day pricing schedules, figures 1.1 to 1.4 below show the daily prices, demand forecasts², and injection/withdrawal bids³. Figure 1.5 provides information on which system injection points were used to deliver gas, in turn indicating the location and relative quantity of gas bids cleared through the market. Gas is priced five times daily (at 6 am, 10 am, 2 pm, 6 pm and 10 pm) when the first schedule and four reschedules apply, while the last 8-hour schedule has been separated into two 4-hour blocks for a consistent comparison with other scheduled injection volumes. The main drivers of price are demand forecasts and gas bids.⁴

Figure 1.1: Prices by schedule

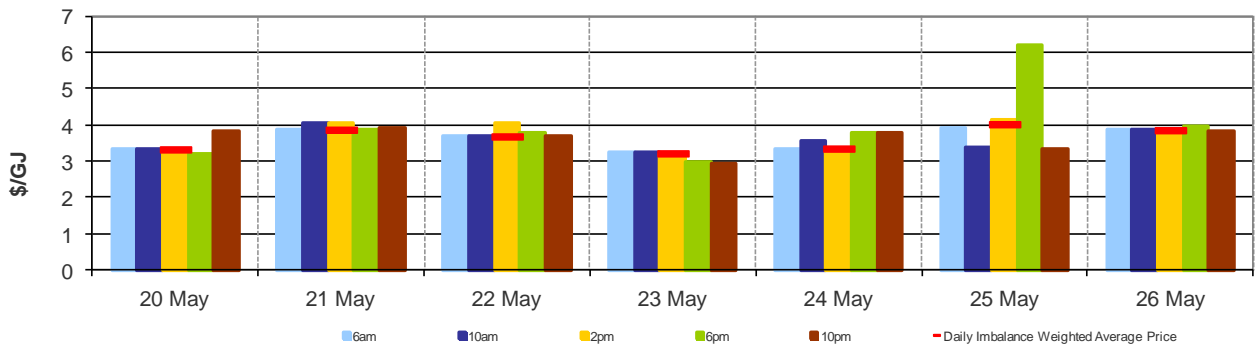
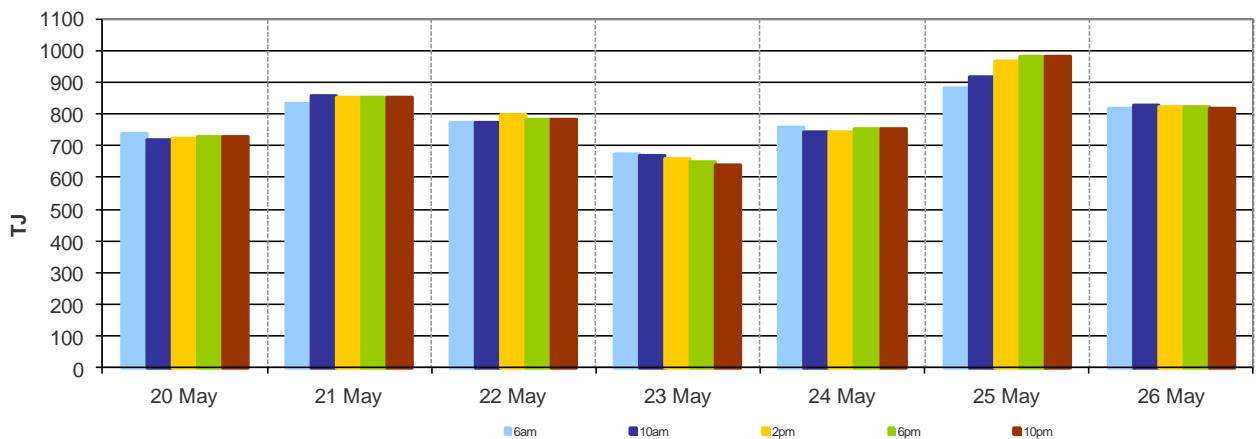


Figure 1.2: Demand forecasts



² These are Market Participants' aggregate demand forecasts adjusted for any override as applied by AEMO from time to time. The main driver of the amount of gas scheduled on a gas day are these forecasts which are forecasts that cannot respond to price or in other words is gas delivered regardless of the price.

³ The price might also be affected by transmission or production (contractual) constraints limiting how much gas can be delivered from a locale or System Injection Point (SIP) from time to time.

⁴ The price might also be affected by transmission or production (contractual) constraints limiting how much gas can be delivered from a locale or SIP from time to time.

Figure 1.3: Injection bids by price bands

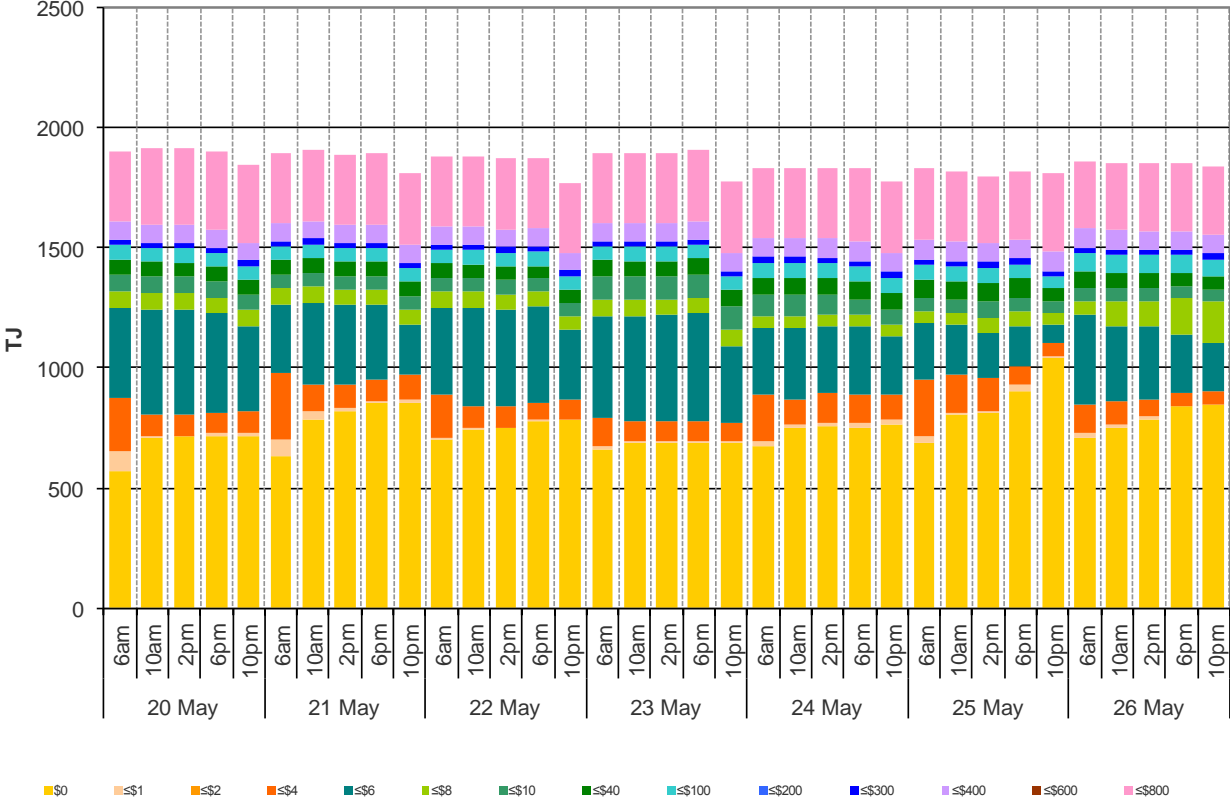


Figure 1.4: Withdrawal bids by price bands

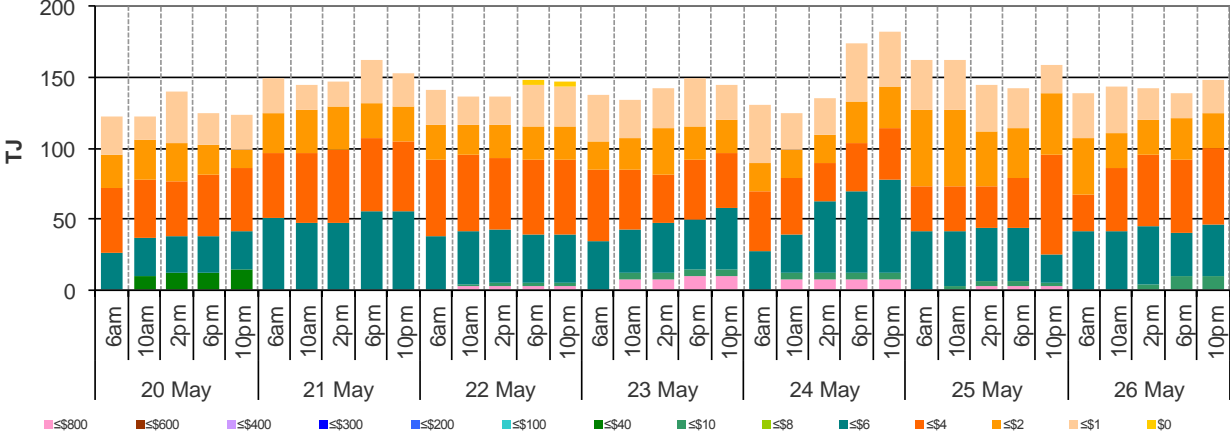
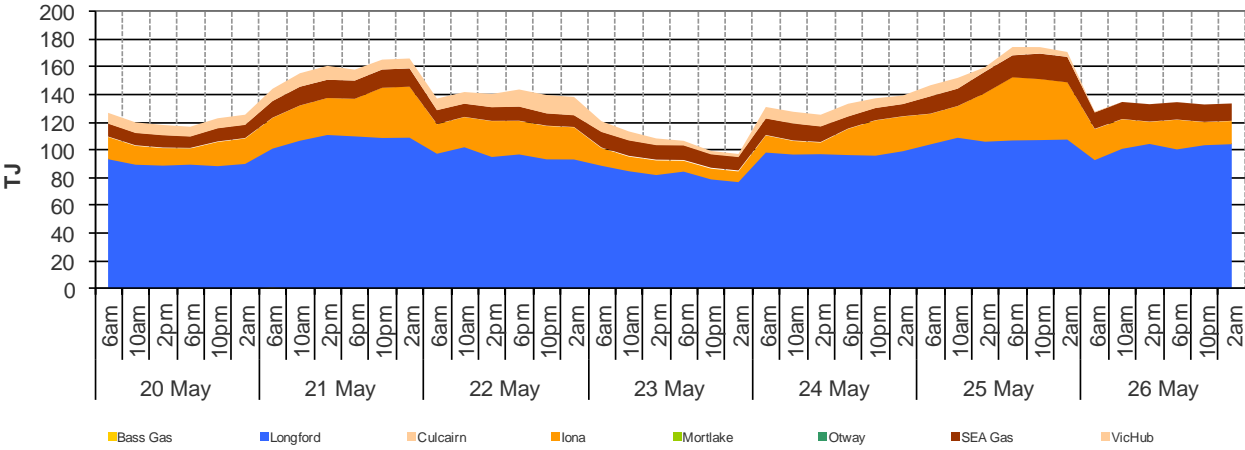


Figure 1.5: Metered Injections by System Injection Point



2 Sydney STTM

In each STTM hub, gas is priced once before each gas day (the ex ante price) and once after the gas day (the ex post price). The main drivers of ex ante and ex post prices are demand forecasts, together with participant offers and offers to inject or bids to withdraw gas traded through the hub.⁵ Prices before and after the gas day may also vary depending on how much gas is scheduled before the gas day (setting the ex ante price) and how much gas is consumed in the hub on a gas day (setting the ex post price).

Market Operator Service balancing gas (MOS) payments arise because the amount of gas nominated on pipelines for delivery on a gas day will either exceed or fall short, by some amount, of the amount of gas consumed in the hub. In such circumstances, MOS payments are made to participants for providing a service to park gas on a pipeline or to loan gas from a pipeline to the hub.⁶

Figures 2.1 and 2.2 show daily prices, demand, offers and bids. Figures 2.3 and 2.4 show gas scheduled and allocated on pipelines, indicating the location and relative quantity of gas offers across pipelines and also the amount of MOS allocated for each pipeline.

Figure 2.1: SYD STTM daily ex ante and ex post prices and quantities

	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Ex ante price (\$/GJ)	3.32	4.01	4.01	3.32	4.11	4.80	5.25
Ex ante quantity (TJ)	256	285	290	287	290	286	276
Ex post price (\$/GJ)	3.85	4.01	4.30	3.73	5.25	4.80	4.79
Ex Post quantity (TJ)	258	285	300	295	305	290	268

Figure 2.2 (a) Daily hub offers in price bands (\$/GJ)

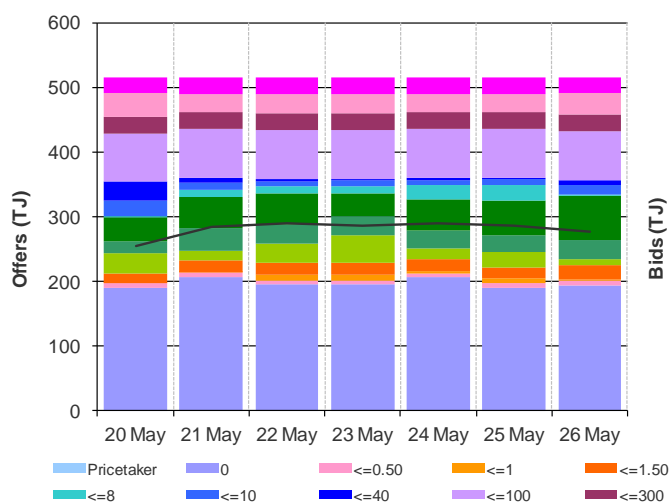
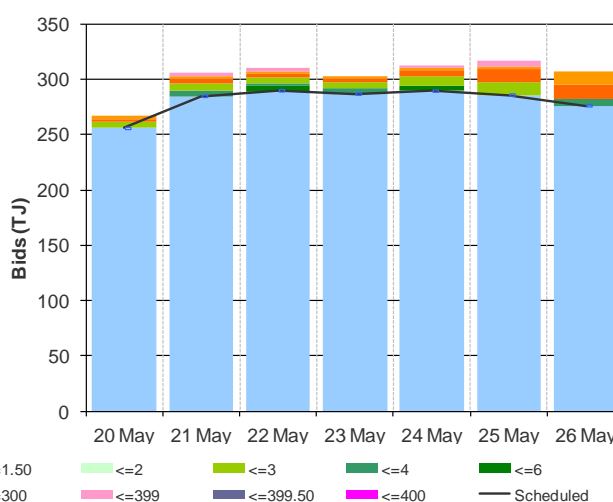


Figure 2.2(b): Daily hub bids in price bands (\$/GJ)



⁵ The main driver of the amount of gas scheduled on a gas day is the 'price-taker' bid, which is forecast hub demand that cannot respond to price and which must be delivered, regardless of the price.

⁶ MOS payments involve a payment for a MOS decrease service when the quantity delivered exceeds actual final gas nominations and a MOS increase applies otherwise. As well as a MOS service payment, as shown in figure 2.4 MOS providers are paid for or pay for the quantity of MOS sold into the market or bought from the market.

Figure 2.3: SYD STTM ex ante scheduled and allocated gas volumes by STTM facility

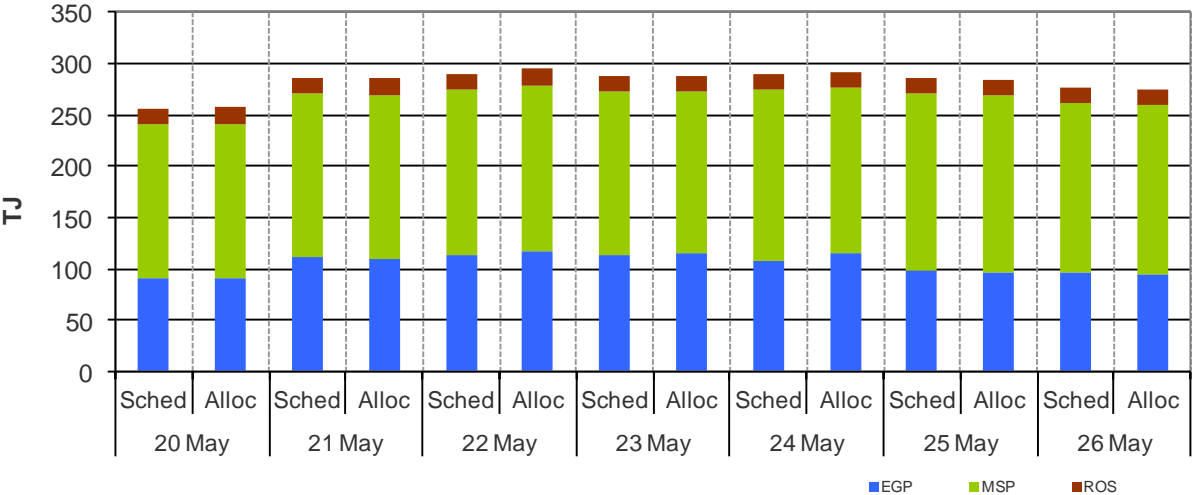


Figure 2.4 (a) SYD STTM MOS allocations (Tj)

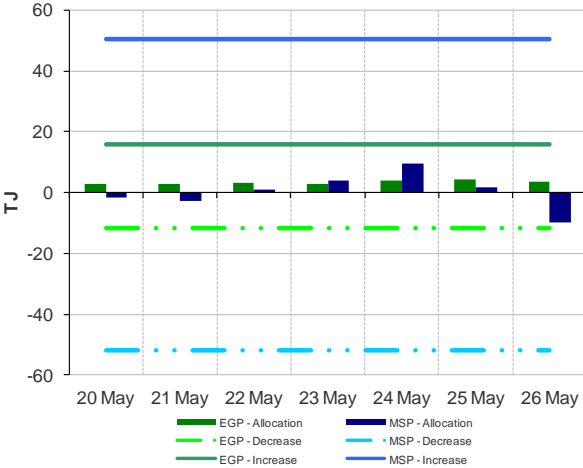
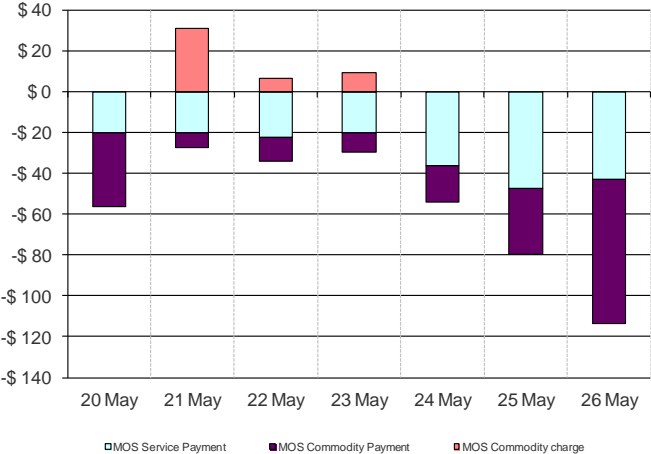


Figure 2.4 (b): Service payments and commodity payments/charges (\$000)



3 Adelaide STTM

The Adelaide STTM hub functions in the same way as the Sydney STTM hub. The same data that was presented for the Sydney hub is presented for the Adelaide hub in the figures below.

Figure 3.1: ADL STTM Daily ex ante and ex post prices and quantities

	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Ex ante price (\$/GJ)	3.71	3.79	3.79	3.93	3.68	3.69	3.91
Ex ante quantity (TJ)	75	84	83	88	93	88	81
Ex post price (\$/GJ)	3.69	3.93	4.39	3.83	3.78	3.92	3.63
Ex Post quantity (TJ)	74	88	89	87	99	92	74

Figure 3.2 (a) Daily hub offers in price bands (\$/GJ)

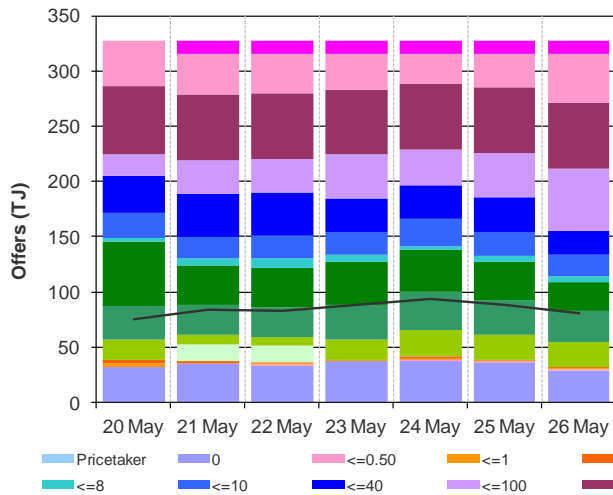


Figure 3.2(b): Daily hub bids in price bands (\$/GJ)

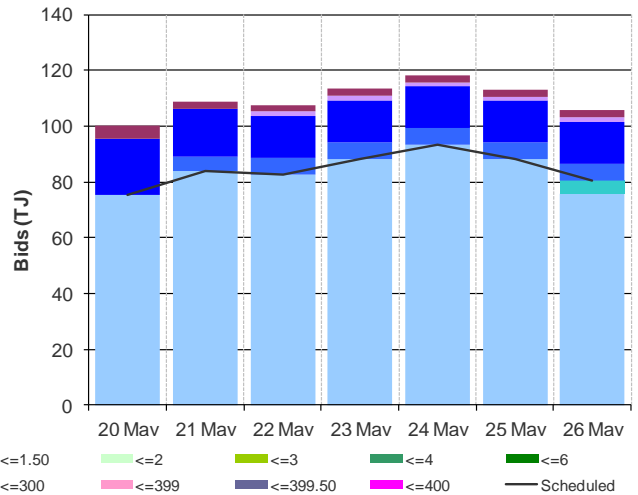


Figure 3.3: ADL STTM ex ante scheduled and allocated gas volumes by STTM facility

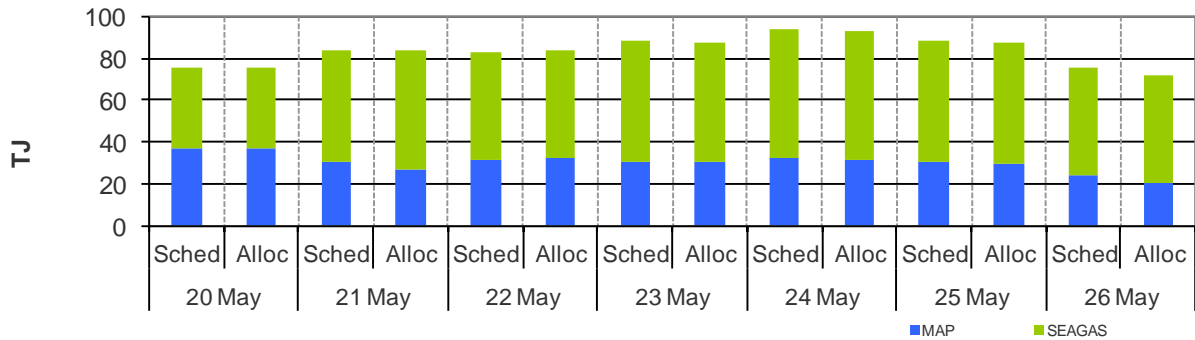


Figure 3.4 (a) ADL STTM MOS allocations (TJ)

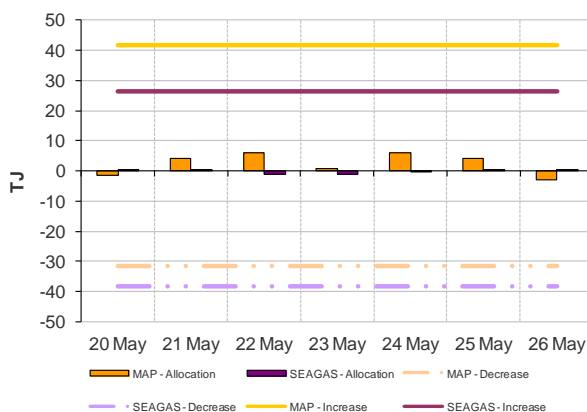
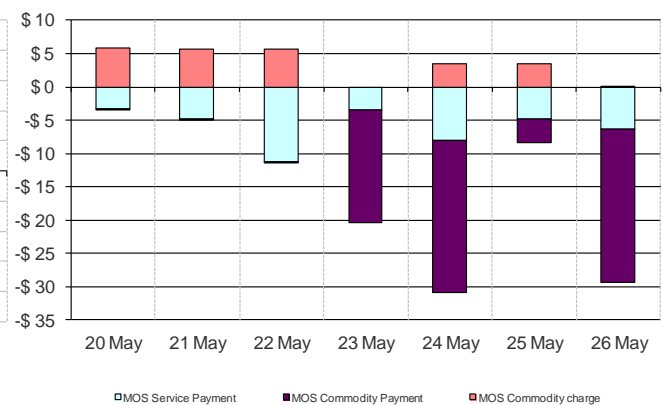


Figure 3.4 (b): Service payments and commodity payments/charges (\$000)



4 Brisbane STTM

The Brisbane STTM hub functions in the same way as the Sydney STTM hub. The same data that was presented for the Sydney hub is presented for the Brisbane hub in the figures below.

Figure 4.1: BRI STTM daily ex ante and ex post prices and quantities

	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Ex ante price (\$/GJ)	4.60	4.65	4.65	4.60	4.65	3.45	4.54
Ex ante quantity (TJ)	145	169	174	173	170	161	144
Ex post price (\$/GJ)	3.32	4.60	3.36	3.39	3.45	3.43	3.57
Ex Post quantity (TJ)	142	166	173	169	166	158	139

Figure 4.2 (a) Daily hub offers in price bands (\$/GJ)

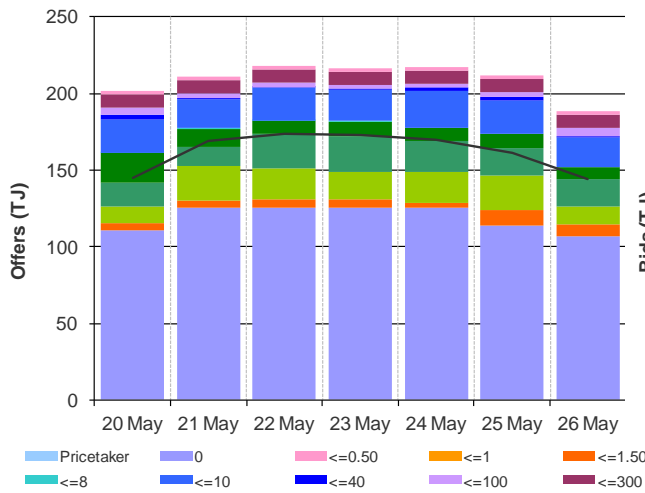


Figure 4.2(b): Daily hub bids in price bands (\$/GJ)

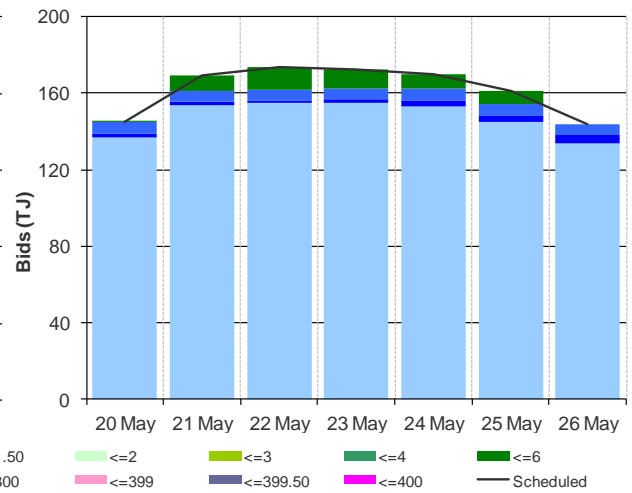


Figure 4.3: BRI STTM ex ante scheduled and allocated gas volumes by STTM facility

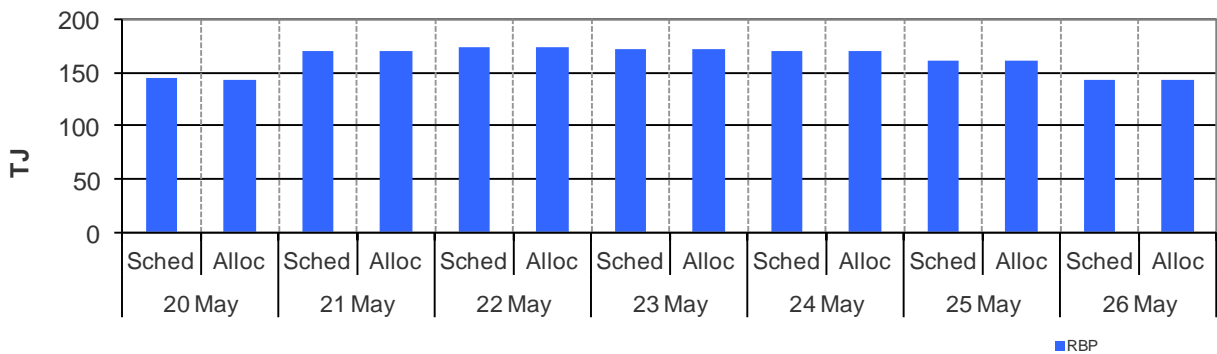


Figure 4.4 (a) BRI STTM MOS allocations (TJ)

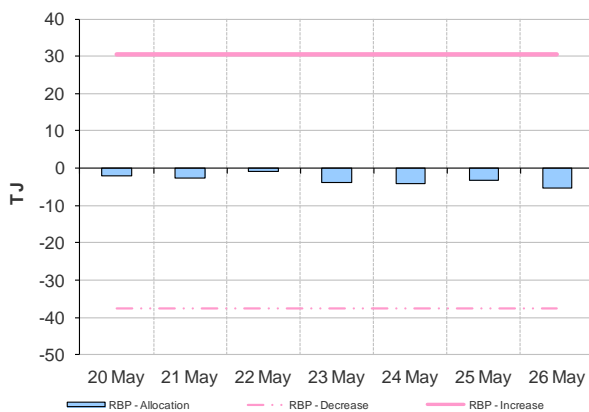
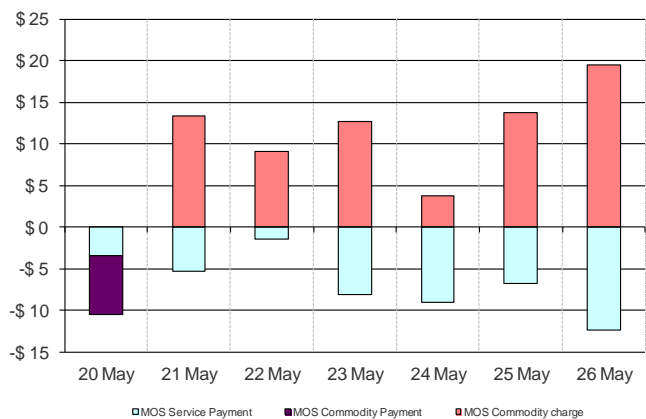


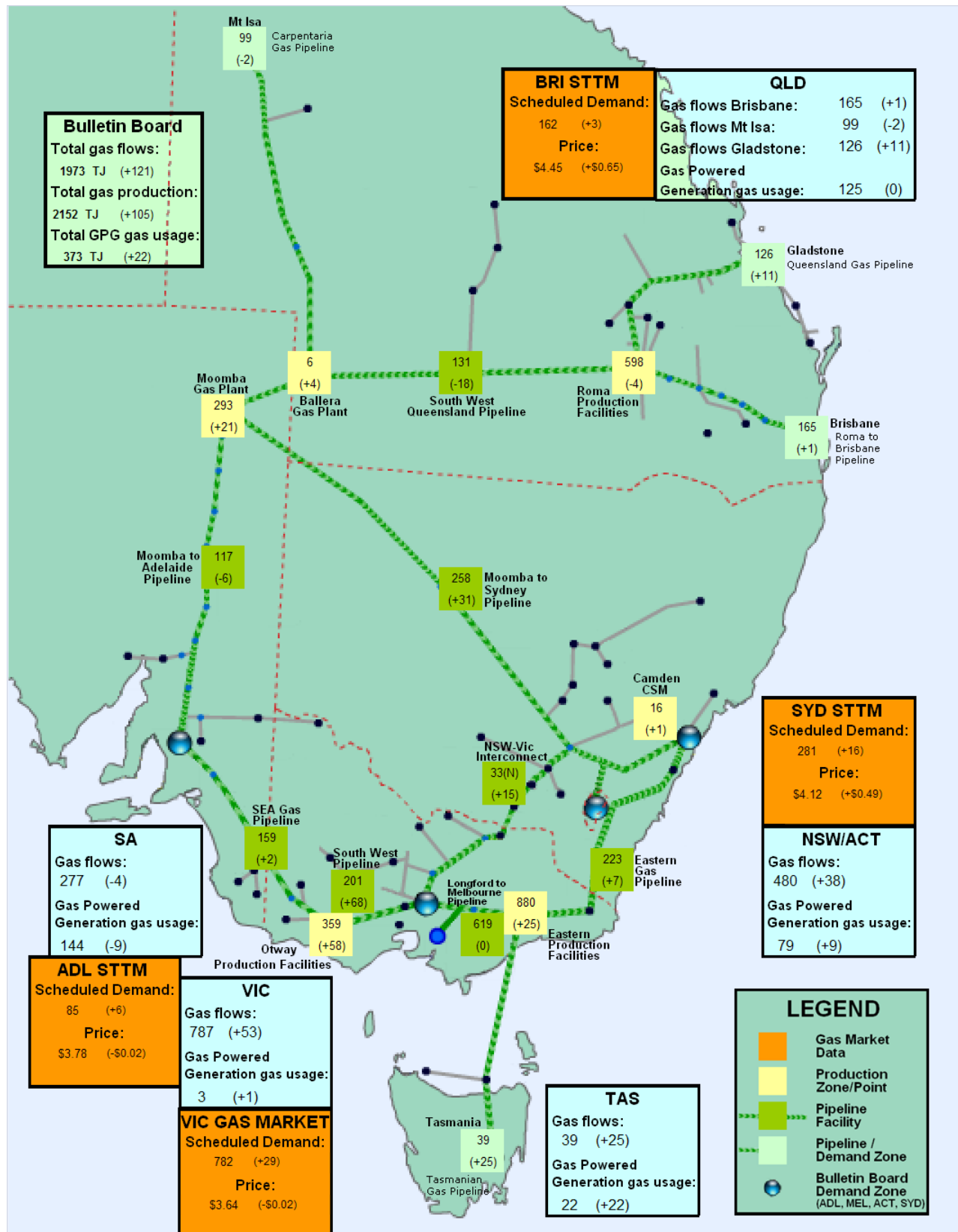
Figure 4.4 (b): Service payments and commodity payments/charges (\$000)



5 National Gas Bulletin Board

Figure 5.1 shows average daily actual flows for the current week in the aqua boxes⁷ from the Bulletin Board (changes from the previous week's average are shown in brackets). Gas-powered generation (GPG) gas usage is also shown in each region in the aqua boxes. In the orange boxes average daily scheduled volumes and prices for each gas market are provided.

Figure 5.1: Gas market data (\$/GJ, TJ); Production, Consumption and Pipeline flows (TJ)



⁷ Regional Gas Flows: SA = MAP + SEAGAS, VIC = SWP + LMP – negative(NSW-VIC), NSW/ACT = EGP + MSP, TAS = TGP, QLD (Brisbane) = RBP, QLD (Mt Isa) = CGP, QLD (Gladstone) = QGP