

24 February–2 March 2013

Weekly summary

Prices in all markets were largely unchanged from the previous week.

Long term statistics and explanatory material

The AER has published an [explanatory note](#) to assist with interpreting the data presented in its weekly gas market reports. The AER also publish a range of [longer term statistics](#) on the performance of the gas sector including gas prices, production, pipeline flows and consumer demand.

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
24 Feb - 02 Mar 2013	4.45	4.91	4.81	5.82
% change from previous week	-3	-1	-1	1
12-13 financial YTD	4.51	5.23	5.13	5.66
% change from previous financial YTD	52	72	40	81

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)
24 Feb - 02 Mar 2013	4.45	-	350
% change from previous week	-3	-	7
12-13 financial YTD	4.51	-	554
% change from previous financial YTD	52	-	0

* Note: 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.

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.

¹ The weighted average daily imbalance price applies for Victoria.

Figure 3: Sydney STTM

	Ex ante price (\$/GJ)	Ex post price (\$/GJ)	MOS payments (\$000)	Ex ante quantity (TJ)	Ex post quantity (TJ)
24 Feb - 02 Mar 2013	4.91	4.95	5.78	204	205
% change from previous week	-1	1	-57	-2	0
12-13 financial YTD	5.23	5.51	10.97	240	240
% change from previous financial YTD	72	97	-74	5	7

Figure 4: Adelaide STTM

	Ex ante price (\$/GJ)	Ex post price (\$/GJ)	MOS payments (\$000)	Ex ante quantity (TJ)	Ex post quantity (TJ)
24 Feb - 02 Mar 2013	4.81	4.81	1.19	52	51
% change from previous week	-1	1	-79	5	6
12-13 financial YTD	5.13	5.05	8.41	69	67
% change from previous financial YTD	40	40	-27	3	1

Figure 5: Brisbane STTM

	Ex ante price (\$/GJ)	Ex post price (\$/GJ)	MOS payments (\$000)	Ex ante quantity (TJ)	Ex post quantity (TJ)
24 Feb - 02 Mar 2013	5.82	5.85	1.28	159	157
% change from previous week	1	-3	-36	1	0
12-13 financial YTD	5.66	5.59	2.57	146	145

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.

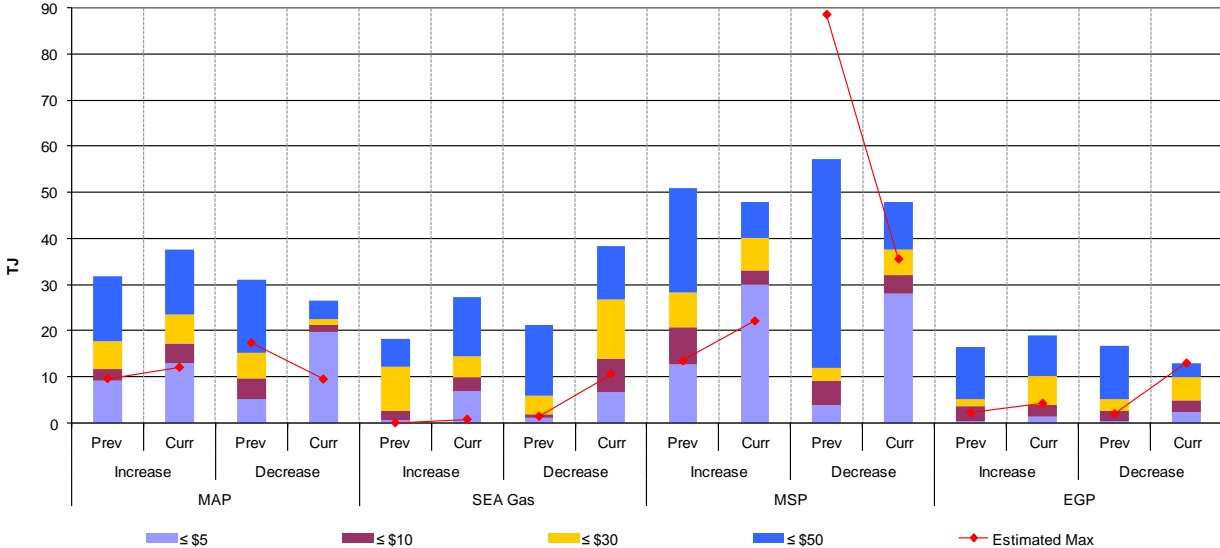
Significant Market Events or Issues this week

A new Market Operator Service (MOS) period began on 1 March 2013 in the STTM. This means participants have submitted new offers for MOS for the March–May period, and AEMO has generated a new MOS stack. The MOS stack is created by placing the offers in merit order (i.e. from lowest to highest). When MOS is required on a day, the provider of MOS will be determined from the MOS stack, as will its MOS service payment.

Figure 6 below compares the MOS stack for the March–May 2013 period with the March–May 2012 period. The graph shows an increase in the amount of low priced MOS offers. Recently there has been a general trend over 2012/13 towards greater volumes of lower priced MOS in MOS stacks. This is largely responsible for reductions in average MOS payments in the Sydney and Adelaide STTM hubs.² Figures 3 and 4 above show the average MOS payment for the current financial year to date (FYTD) in Sydney is 74 per cent less than the previous FYTD. In Adelaide, this year's average MOS payment is 27 per cent less than the previous FYTD.

² The quantity of MOS is the other determinant. The AER has reported recently in its [2012 October to December Quarterly Compliance Report: National Electricity and Gas Laws](#) on its monitoring of demand forecast performance —this performance impacts on the amount of MOS.

Figure 6: March–May 2013 MOS offers compared to March–May 2012



Detailed Market Analysis

24 February–2 March 2013

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 forecasts³, and injection/withdrawal bids⁴. 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.⁵

Figure 1.1: Prices by schedule

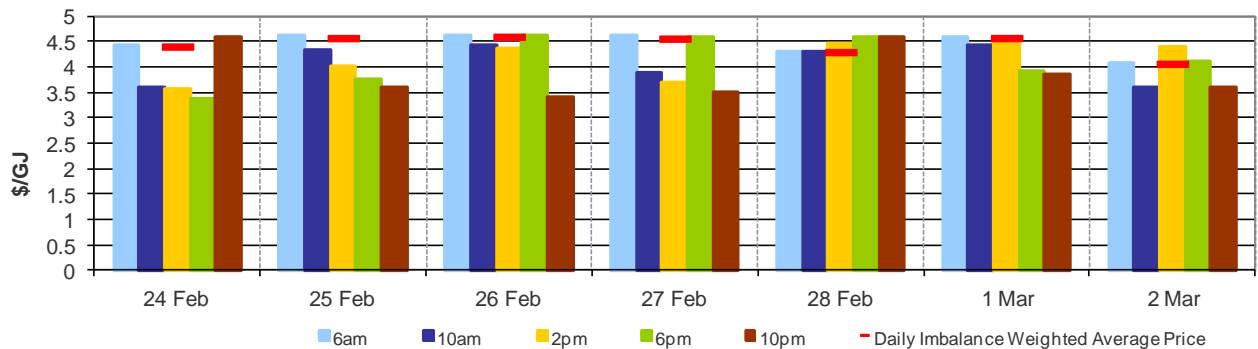
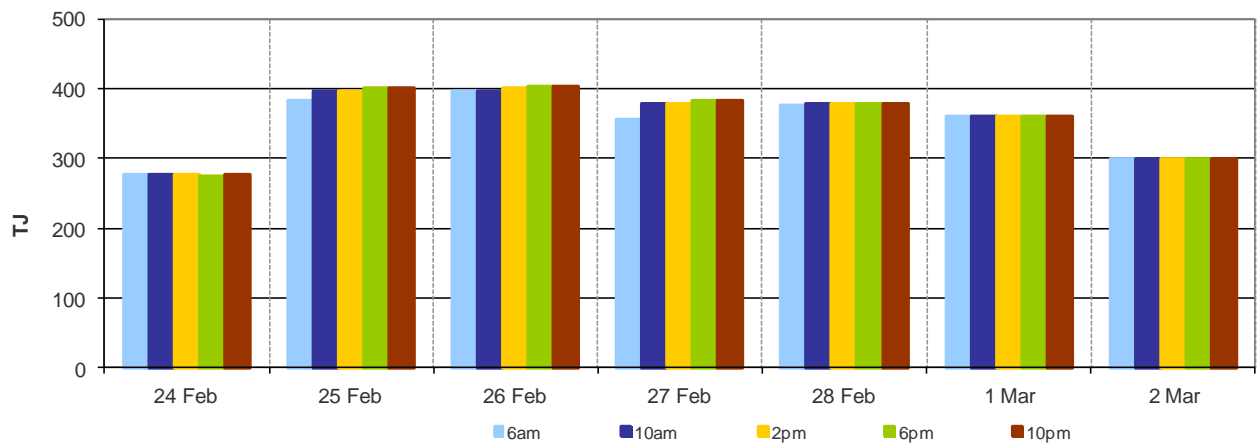


Figure 1.2: Demand forecasts



³ 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.

⁴ 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.

⁵ 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

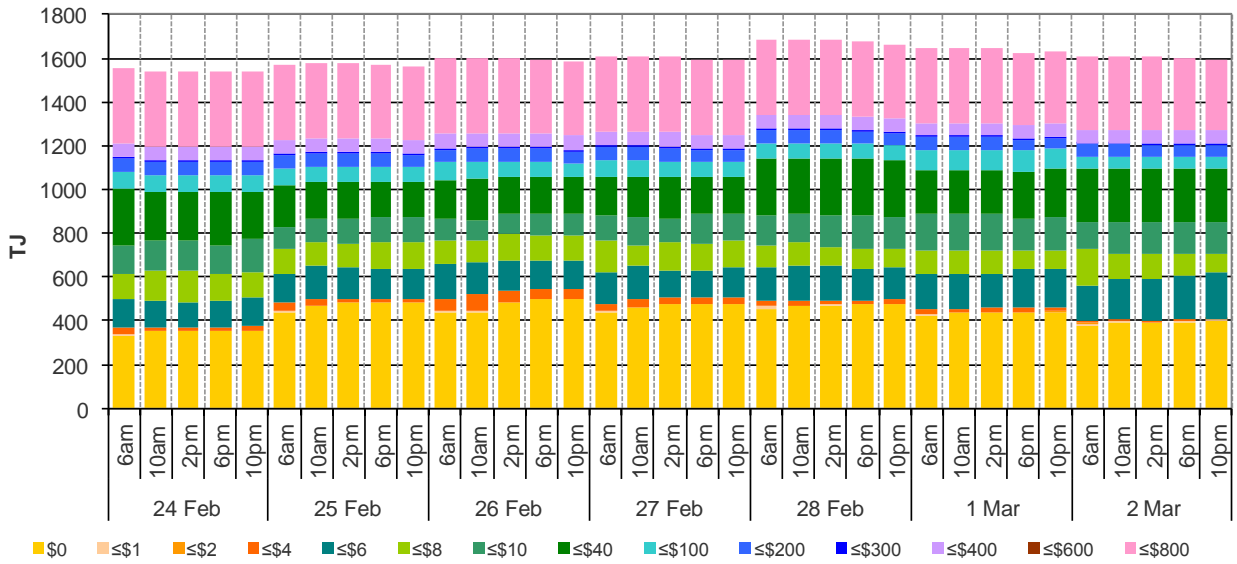


Figure 1.4: Withdrawal bids by price bands

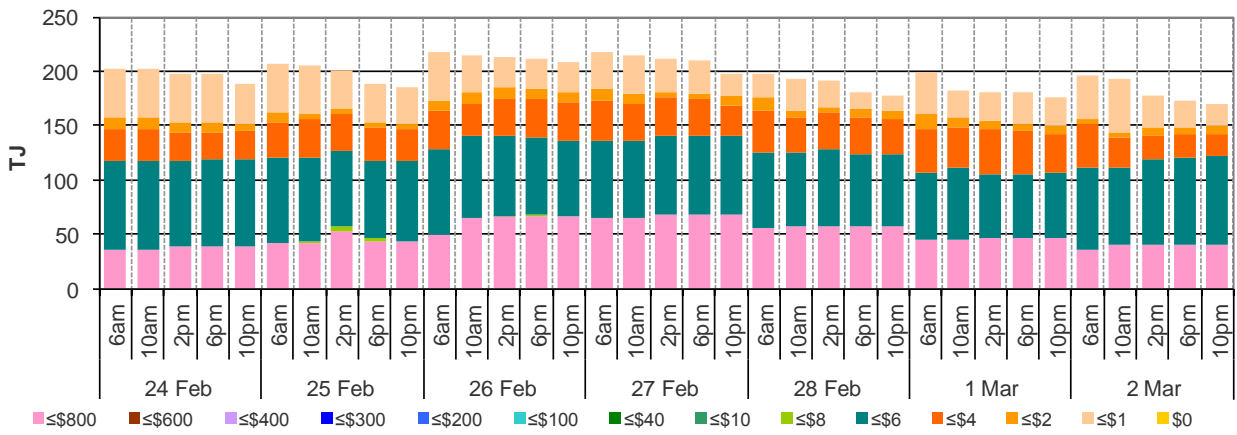
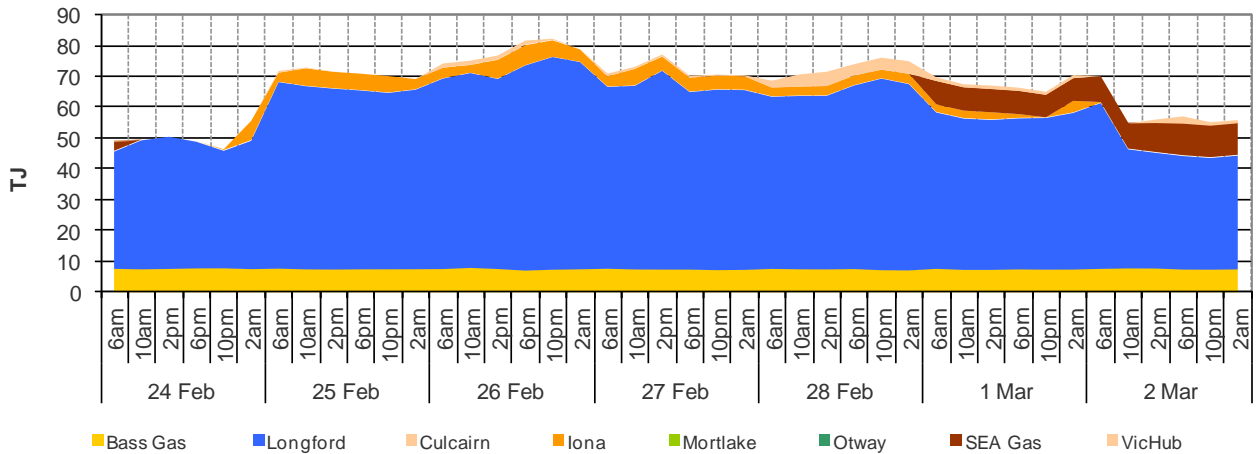


Figure 1.5: Metered Injections by System Injection Point



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.⁶ 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.⁷

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)	4.81	4.96	4.96	4.91	4.91	4.91	4.96
Ex ante quantity (TJ)	174	210	211	214	211	213	192
Ex post price (\$/GJ)	4.82	4.96	4.96	4.91	4.96	4.91	5.13
Ex Post quantity (TJ)	176	203	210	216	218	211	198

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

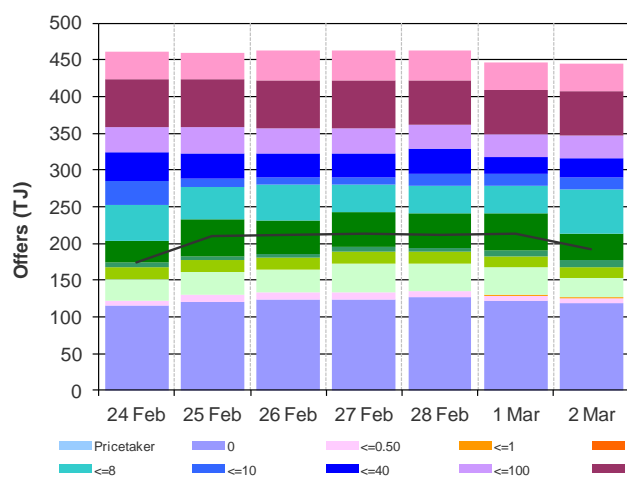
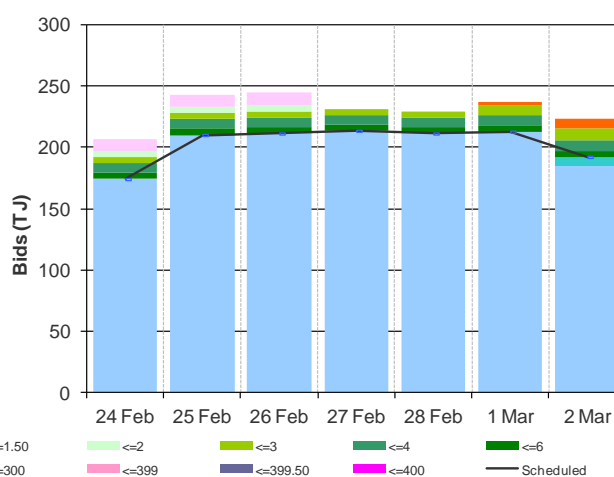


Figure 2.2(b): Daily hub bids in price bands (\$/GJ)



⁶ 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.

⁷ MOS service payments involve a payment for a MOS increase service when the actual quantity delivered exceeds final gas nominations for delivery to a hub, and a payment for a MOS decrease service when the actual quantity delivered is less than final nominations. 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

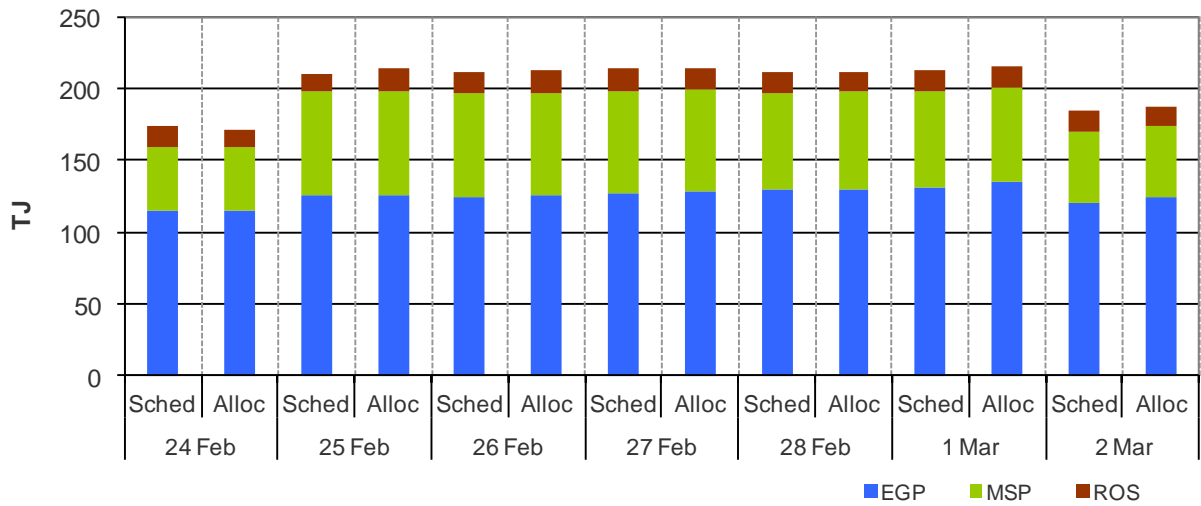


Figure 2.4 (a) SYD STTM MOS allocations (TJ)

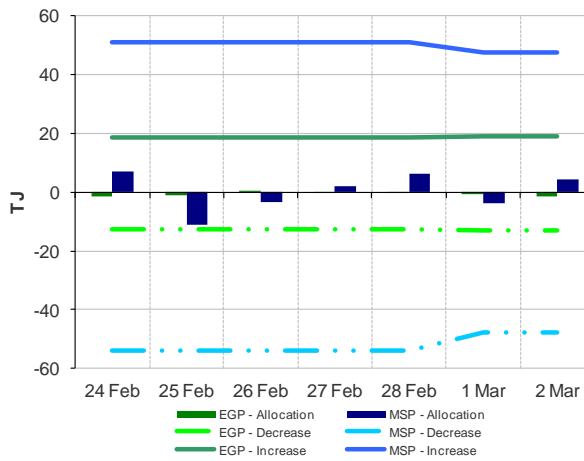
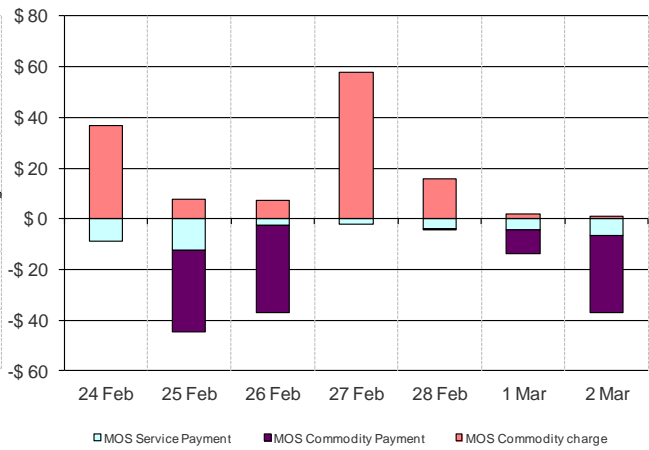


Figure 2.4 (b): Service payments and commodity payments/charges (\$000)



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)	4.79	4.80	4.80	4.80	4.90	4.80	4.79
Ex ante quantity (TJ)	44	53	54	56	56	54	46
Ex post price (\$/GJ)	4.79	4.80	4.79	4.80	4.90	4.80	4.78
Ex Post quantity (TJ)	44	54	52	55	57	51	45

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

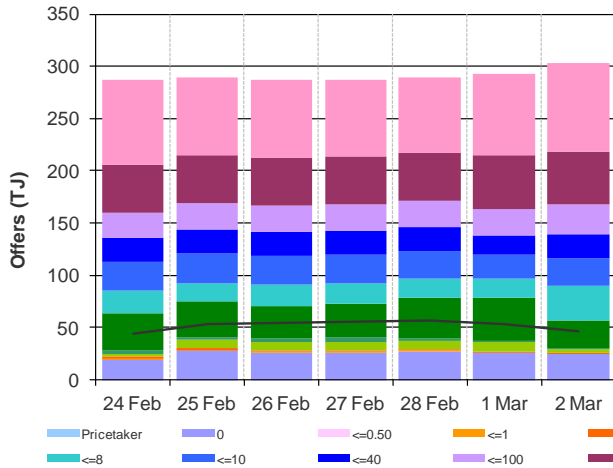


Figure 3.2(b): Daily hub bids in price bands (\$/GJ)

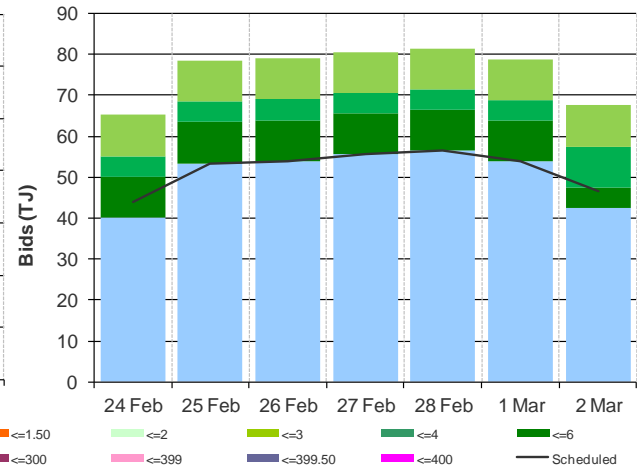


Figure 3.3: ADL STTM ex ante scheduled and allocated gas volumes by STTM facility

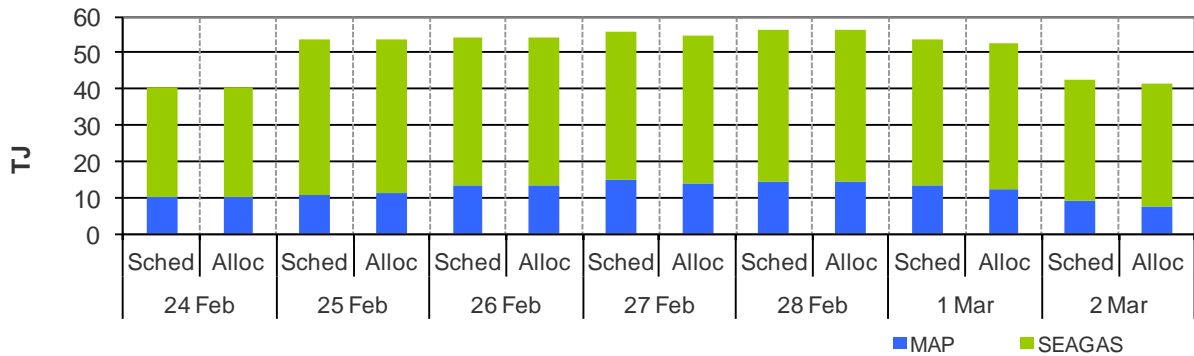


Figure 3.4 (a) ADL STTM MOS allocations (TJ)

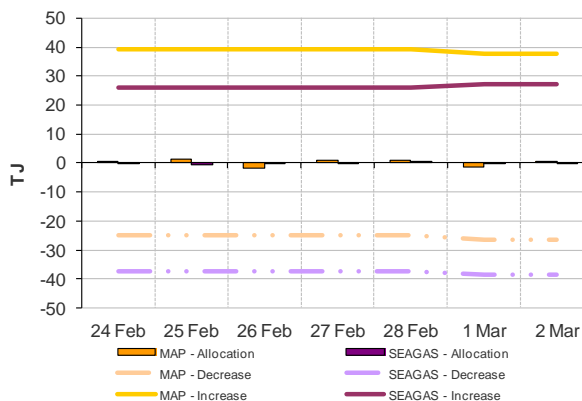
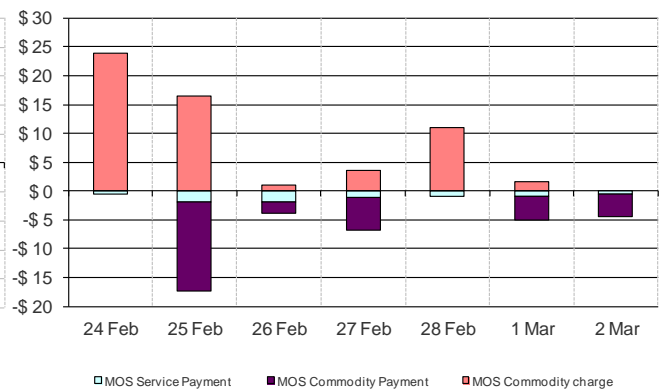


Figure 3.4 (b): Service payments and commodity payments/charges (\$000)



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)	4.96	4.96	7.81	7.81	5.03	5.03	5.11
Ex ante quantity (TJ)	147	165	167	163	164	161	148
Ex post price (\$/GJ)	4.95	4.96	5.10	8.00	5.03	7.77	5.11
Ex Post quantity (TJ)	139	161	166	165	158	161	148

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

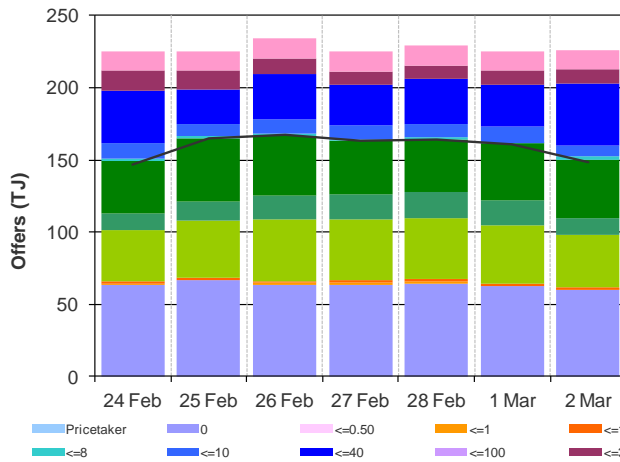


Figure 4.2(b): Daily hub bids in price bands (\$/GJ)

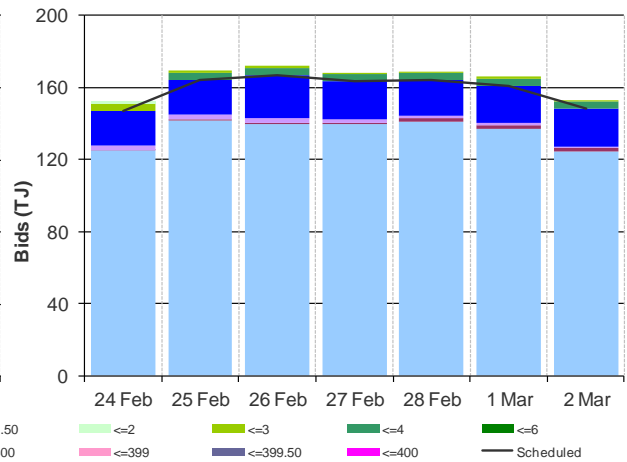


Figure 4.3: BRI STTM ex ante scheduled and allocated gas volumes by STTM facility

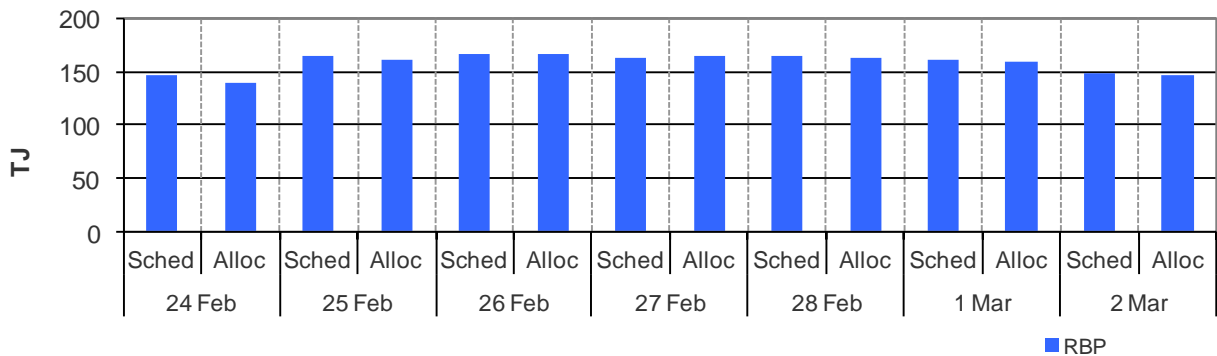


Figure 4.4 (a) BRI STTM MOS allocations (TJ)

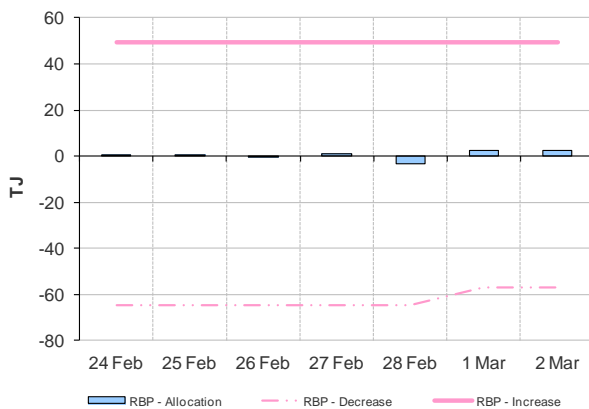
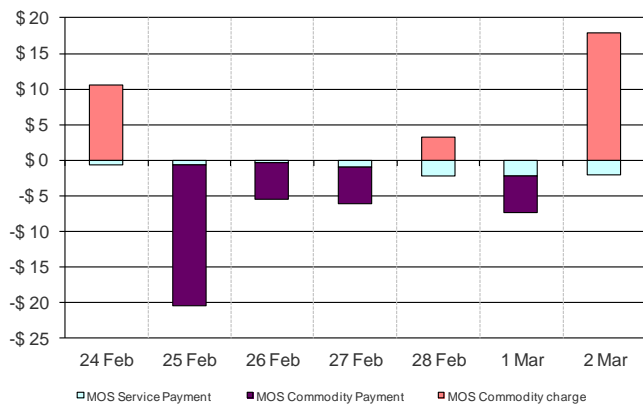


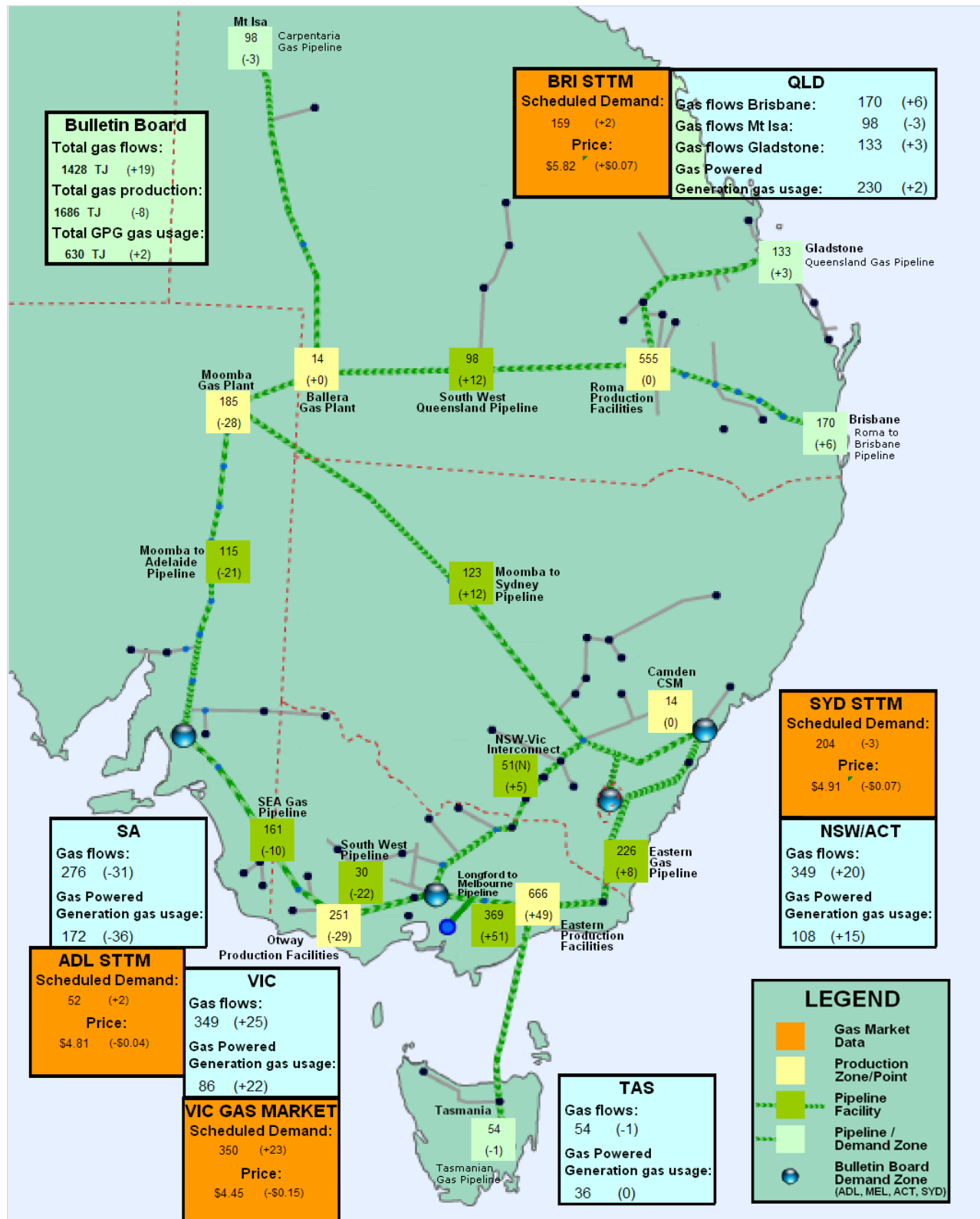
Figure 4.4 (b): Service payments and commodity payments/charges (\$000)



5 National Gas Bulletin Board

Figure 5.1 shows average daily actual flows for the current week in the aqua boxes⁸ 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)



⁸ 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 GPG volumes do not include gas usage for a number of power stations whose gas consumption is not part of Bulletin Board pipeline flows e.g. Darling Downs and Condamine in Queensland.