MOS ESTIMATES FOR MOS PERIOD 1 SEPTEMBER 2011 – 30 NOVEMBER 2011

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1. Introduction

In accordance with rule 397 of the National Gas Rules (STTM Rules), AEMO is required to publish estimates of Market Operator Service (MOS estimates) for each STTM pipeline and each MOS period prior to the commencement of the related MOS period. In determining the MOS estimates for each MOS period, AEMO must use the data specified in Section 5.2 (b) of the STTM Procedures.

2. The MOS period

MOS periods are defined in section 5.1 of the STTM Procedures. The MOS estimates contained in this document relate to the MOS period 1 Sep 2011 – 30 Nov 2011.

3. MOS estimates for MOS period 1 Sep 2011 – 30 Nov 2011

The MOS quantities for the MOS period 1 Sep 2011 – 30 Nov 2011 are derived from daily allocated MOS quantities for the period 1 Sep 2010 – 30 Nov 2010 of the following STTM pipelines:

- Moomba to Sydney pipeline (MSP) and the Eastern Gas Pipeline (EGP) supplying gas to the Sydney hub; and
- Moomba to Adelaide pipeline (MAP) and the SEA Gas pipeline (SEAGas) connected to the Adelaide hub.

The MOS quantities for each STTM pipeline and each gas day are as follows:

Daily MOS quantity (GJ) = allocated MOS quantities for the corresponding period of the preceding year

Positive MOS quantities indicate the requirements for a forecast increase in MOS whereas negative MOS quantities indicate the requirements for a forecast decrease in MOS.[1]

Rule 397(1)(a) of the STTM Rules requires that AEMO publish its estimate of the maximum quantity of MOS (by way of increase and decrease) likely to be required on any gas day in the relevant MOS period. This is provided in Table 1 below.

Rule 397(1)(b) of the STTM rules specifies that AEMO must publish its estimate of the range of daily quantities of MOS (by way of increase and decrease) likely to be required, together with the number of gas days in the MOS period to which each of those estimated quantities applies. This is provided in the following tables and charts:

- Table 2 showing the summary statistics of the distributions of MOS quantities, including a measure of central location (median), two measures of dispersion/spread (the range and the inter-quartile range).[2] The means, standard deviations, the 5 and 95 percentile of the

[1] Note that MOS increase offers and MOS decrease offers must comply with the requirements in section 5.4(b)(ii) and section 5.4(c)(ii) of the STTM Procedures, and should be greater than zero for the purpose of creating the MOS stacks.

[2] The inter-quartile range is the range of values between the first (25%) and third quartiles (75%) of the distributions.

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distributions are also shown together with the proportions of days in the MOS period with positive and negative MOS quantities.

- Table 3 showing the daily MOS quantities sorted in descending order and the number of day(s) associated with each estimated- quantity.
- Figure 1 displaying the curves of daily MOS quantities sorted in descending order from the highest to the lowest values.
- Figure 2 showing the Box plots which provide a graphical summary of the data and are useful tools for comparing the MOS quantities of the different STTM pipelines.

Table 1 – Maximum MOS quantities (GJ)

	Sydney MSP	Sydney EGP	Adelaide MAP	Adelaide SEA Gas
MOS increase	26,139	4,173	10,023	124
MOS decrease	22,560	5,977	8,182	8,502

Figure 1 – Curves of daily MOS quantities

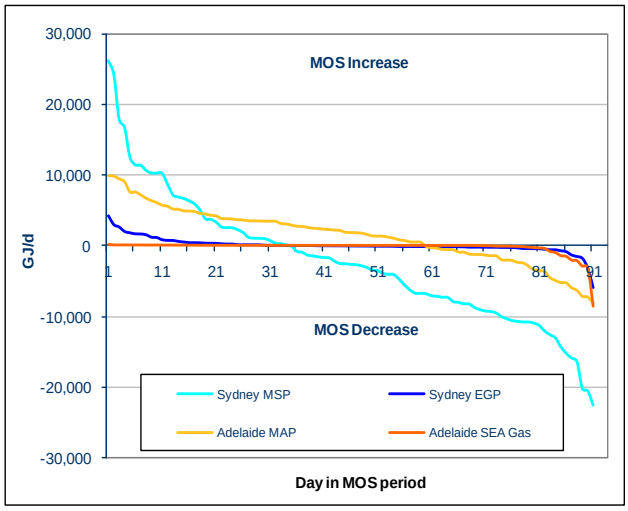

Table 2 – Summary statistics of daily MOS quantities

	Summary statistics GJ/d			
	Sydney MSP	Sydney EGP	Adelaide MAP	Adelaide SEA Gas
Maximum	26,139	4,173	10,023	124
95%	11,949	1,688	7,706	58
75%	**2,538**	167	3,868	11
50%	-2,631	-91	1,919	-1
25%	-8,503	-266	-1,184	-9
5%	-15,552	-1,141	-5,618	-1,800
Minimum	-22,560	-5,977	-8,182	-8,502
Mean	-2,229	-2	1,495	-272
Std deviation	9,185	1,111	3,995	1,049
% days positive	37%	34%	65%	42%
% days negative	63%	66%	35%	58%

Figure 2 – Distribution of daily MOS quantities

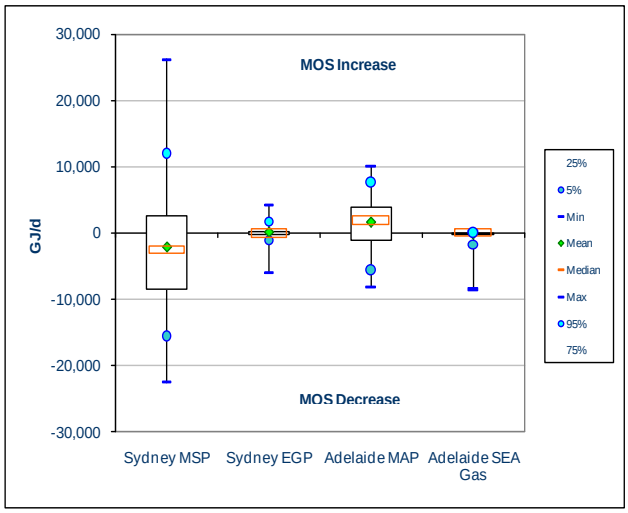

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Table 3 – Daily MOS quantities (GJ/d)

No of days	Sydney MSP	Sydney EGP	Adelaide MAP	Adelaide SEA Gas	No of days	Sydney MSP	Sydney EGP	Adelaide MAP	Adelaide SEA Gas
1	26,139	4,173	10,023	124	1	-2,681	-100	1,880	-2
1	24,220	2,928	9,965	67	1	-2,846	-103	1,829	-2
1	17,842	2,583	9,567	66	1	-3,090	-107	1,650	-2
1	16,735	1,958	9,170	61	1	-3,422	-119	1,432	-2
1	12,482	1,762	7,706	60	1	-3,520	-130	1,405	-2
1	11,416	1,613	7,705	57	1	-3,933	-133	1,395	-2
1	11,369	1,598	7,282	54	1	-4,039	-134	1,246	-2
1	10,630	1,486	6,809	48	1	-4,095	-144	1,093	-2
1	10,261	1,143	6,452	48	1	-4,753	-166	874	-3
1	10,259	1,093	6,187	48	1	-5,560	-171	776	-3
1	10,210	777	5,804	45	1	-6,266	-172	577	-3
1	8,657	695	5,664	42	1	-6,730	-176	566	-3
1	7,151	683	5,257	41	1	-6,735	-176	524	-3
1	6,871	545	5,235	34	1	-6,801	-180	-60	-4
1	6,660	459	4,998	33	1	-7,096	-188	-253	-4
1	6,335	373	4,977	32	1	-7,152	-191	-326	-4
1	5,901	366	4,912	27	1	-7,301	-193	-487	-4
1	5,060	346	4,644	21	1	-7,315	-195	-518	-6
1	3,804	299	4,562	17	1	-7,903	-196	-532	-7
1	3,726	287	4,378	16	1	-8,014	-210	-864	-7
1	3,318	274	4,285	16	1	-8,214	-220	-890	-7
1	2,640	212	3,918	13	1	-8,249	-265	-1,160	-8
1	2,540	168	3,895	13	1	-8,756	-266	-1,207	-10
1	2,535	166	3,841	10	1	-9,050	-267	-1,221	-27
1	2,250	77	3,745	9	1	-9,237	-276	-1,299	-52
1	1,863	75	3,706	9	1	-9,313	-285	-1,407	-55
1	1,181	69	3,595	8	1	-9,514	-286	-1,413	-101
1	1,055	65	3,584	8	1	-10,051	-304	-1,966	-103
1	1,040	65	3,562	7	1	-10,331	-307	-2,013	-107
1	985	9	3,542	7	1	-10,607	-332	-2,069	-124
1	733	1	3,529	5	1	-10,701	-367	-2,359	-143
1	347	-12	3,527	5	1	-10,791	-458	-2,421	-173
1	281	-22	3,210	4	1	-10,792	-460	-2,889	-249
1	116	-25	3,144	3	1	-10,958	-477	-3,418	-304
1	-87	-30	2,971	3	1	-11,289	-492	-3,520	-361
1	-801	-30	2,815	1	1	-12,087	-555	-3,661	-431
1	-944	-37	2,787	1	1	-12,589	-637	-4,527	-848
1	-1,349	-41	2,646	0	1	-13,046	-638	-4,929	-1,006
1	-1,451	-47	2,526	0	1	-14,288	-777	-5,226	-1,440
1	-1,578	-63	2,486	0	1	-15,220	-908	-5,271	-1,528
1	-1,687	-65	2,389	0	1	-15,884	-1,373	-5,965	-2,072
1	-1,725	-73	2,340	-1	1	-16,391	-1,590	-6,341	-2,140
1	-2,204	-75	2,266	-1	1	-20,226	-1,849	-7,192	-2,912
1	-2,538	-76	2,213	-1	1	-20,504	-3,214	-7,294	-3,052
1	-2,568	-84	1,959	-1	1	-22,560	-5,977	-8,182	-8,502
1	-2,631	-91	1,919	-1					

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