

## **REPLY TO PUBLIC COMMENTS ON PROPOSED CATALOGUE OF DATA**

Public comments were invited on new areas included in a modified proposed catalogue of data on 9 June 2003. The Market Surveillance and Compliance Panel (“MSCP”) thanks all parties who provided comments. This paper sets out the MSCP’s response to comments received. The catalogue of data has, where appropriate, been modified based on these comments. The MSCP considers that it is now appropriate to adopt the catalogue of data.

**29 August 2003**

## INTRODUCTION

On 9 June 2003, the Market Surveillance and Compliance Panel ("MSCP") sought public comments on new areas included in a modified proposed catalogue of data. Market participants, service providers and all interested parties were invited to provide comments to the MSCP by 20 June 2003.

## RESPONSE TO PUBLIC COMMENTS

We set out the items in the proposed catalogue of data that we have received comments on, a summary of the comments received and our response to each of these comments.

<b>Data Catalogue</b>	<b>Public Comments</b>	<b>MSCP Comments</b>
<u>Item 11:</u> Heat rate of each generation registered facility	<u>Data not necessary</u> This data is not essential for assessing whether the wholesale market is efficient. If it is considered necessary, then "generic" figures will suffice.	<u>Modification of catalogue of data</u> The comments are noted. The MSCP has decided to use generic figures and will exclude this item from the catalogue of data
<u>Item 36:</u> Availability factor (ie the percentage of time a generation registered facility is available to generate electricity) of each generation registered facility	<u>Data provided to EMA/PSO</u> This data is provided to the regulator on a quarterly and annual basis. Is it possible to obtain it from the regulator?	<u>Data provided to EMA/PSO</u> The PSO has confirmed that it does not have the information. The EMA has asked the MSCP to obtain the information directly from generators.
<u>Item 41:</u> Half hourly Market Energy Price ("MEP") at all market network nodes ("MNN")	<u>Confidentiality</u> This data should be treated as confidential.	<u>Confidentiality</u> Section 9.2.4.5 of Chapter 6 of the market rules provide for the EMC to publish the energy price associated with each market network node at which a generation registered facility or generation settlement facility is located. Therefore, market energy prices should not be considered confidential information.

Data Catalogue	Public Comments	MSCP Comments
<u>Item 53:</u> Vesting contracts information	<u>Non-disclosure</u> According to the vesting contracts, it is not allowable for such information to be released to the MSCP.	<u>Modification of catalogue of data</u> As the EMA has agreed to provide the MSCP with information on regulatory action it takes in relation to the wholesale market, including vesting contract information, this item will be excluded from the catalogue of data.
Provision of information	<u>Provision of Information</u> Request that confidential information should be sent only to one party instead of numerous parties.	<u>Provision of Information</u> This issue was discussed with the EMA. The EMA asked the MSCP to collect confidential information directly from market participants.

## CATALOGUE OF DATA

The catalogue of data modified to take into account the above is attached as Attachment 1.

## ADOPTION OF CATALOGUE OF DATA

Having deliberated on the catalogue of data at some length, the MSCP considers that it is now appropriate to formally adopt the catalogue of data.

We are therefore pleased to inform you that on 29 August 2003, the catalogue of data attached as Attachment 1 was adopted by the MSCP. As we had previously indicated, it will take effect about a month later, on 1 October 2003.

Once again, my colleagues and I would like to express our gratitude to all market participants and service providers for your very useful contributions towards the drafting of this document. The MSCP and Market Assessment Unit look forward to working with you towards the successful implementation of the catalogue of data.



Joseph Grimberg  
 Chair, Market Surveillance and Compliance Panel  
 29 August 2003



## **CATALOGUE OF DATA**

Pursuant to section 4.3.3 of Chapter 3 of the Singapore Electricity Market Rules, the Market Surveillance and Compliance Panel ("MSCP") has adopted the catalogue of data attached.

As required under section 4.3.2 of Chapter 3, the catalogue of data was developed by the Market Assessment Unit ("MAU"), under the supervision and direction of the MSCP. It is a detailed catalogue of all of the data or categories of data the MSCP/MAU will have the need or means of acquiring.

The catalogue of data was adopted by the MSCP after taking into account public comments received through consultation with market participants, service providers and all other interested parties in accordance with section 4.3.3 of Chapter 3.

**29 August 2003**

**Catalogue of Data  
Singapore Wholesale Electricity Market  
Effective From 1 October 2003**

**Items marked "\*" are considered confidential information**

Type of data		Description	Frequency of collection	Source	Means of obtaining
Generation Registered Facility Characteristics Data	1*	Maximum installed capacity of each generation registered facility	Once and within 3 business days upon change	PSO	By fax
	2*	Maximum generation capacity of each generation registered facility	Once and within 3 business days upon change		
	3*	Maximum ramp-up rate of each generation registered facility	Once and within 3 business days upon change		
	4*	Maximum ramp-down rate of each generation registered facility	Once and within 3 business days upon change		
	5*	Maximum reserve capacity (primary, secondary and contingency) of each generation registered facility	Once and within 3 business days upon change		
	6*	Maximum combined generation capacity and reserve capacity of each generation registered facility	Once and within 3 business days upon change		
	7*	Maximum regulation capacity of each generation registered facility	Once and within 3 business days upon change		
	8*	Maximum energy output at which AGC can operate for each generation registered facility	Once and within 3 business days upon change		
	9*	Minimum energy output at which AGC can operate for each generation registered facility	Once and within 3 business days upon change		
	10*	Fuel type of each generation registered facility	Once and within 3 business days upon change		
	11	Year the generation registered facility was first commissioned	Once	Generation Licensee	By E-mail
	12*	Total annual forced outage hours (past three years) of each generation registered facility	Once		
	13*	Total annual planned outage hours (past three years) of each generation registered facility	Once		
	14*	Total annual overhaul hours (past three years) of each generation registered facility	Once		
	15*	Annual availability factor i.e. the percentage of time a generation registered facility is available to generate electricity in a year (past three years) of each generation registered facility	Once		

Type of data		Description	Frequency of collection	Source	Means of obtaining	
Transmission System Data	16*	Maps and diagrams of the transmission system showing: ratings of transmission lines import links from Malaysia location of each generation registered facility	Once and within 3 business days upon change	PSO	By registered mail	
	17	Transmission line forced outage	Upon occurrence, by the next business day		By fax	
	18	Proposed transmission line de-rating advice	Upon occurrence, by the next business day			
	19	Proposed transmission line maintenance outage programme	Daily, by the next business day		EMC website	
Supply Data	20*	Occurrences of discretionary dispatch action taken by PSO	Upon occurrence, by the next business day	PSO	By fax	
	21*	Offers of energy, reserve and regulation submitted by all market participants	Daily, within 6 business days after the trading day	EMC	By CSV reports	
	22*	Offers exceeding offer change limits (offer variations and revisions to standing offers)	Daily, by the next business day			
	23*	Scheduled dispatch quantity of energy, reserve and regulation by generation registered facility/market participant	Daily, within 6 business days after the trading day	EMC	By CSV reports	
	24*	Maximum target, minimum target and initial output of each scheduled generation registered facility	Daily, within 6 business days after the trading day			
	25*	Metered generation quantity by generation registered facility/market participant	Daily, within 11 business days after the trading day			
	26	Annual overhaul duration of each generation registered facility in hours	Annually and upon change, within 3 business days after approval by PSO	PSO	EMC website	
	27	Total generation capacity under maintenance (planned outages and annual overhaul)	Daily, by the next business day			
	28	Short-term planned outage by generation registered facility	Upon occurrence, by the next business day		By fax	
	29	Forced outage by generation registered facility	Upon occurrence, by the next business day			
	30	Generation registered facility de-rating notification	Upon occurrence, by the next business day			
	31	Security constraints (location, timing, volume, cause)	Upon occurrence, by the next business day			
	32	Load shed forecast	Upon occurrence, by the next business day			By E-mail
	33	Load shed advisory notice	Upon occurrence, by the next business day			
	34*	Intertie submission information	Upon occurrence, by the next business day	By fax		
35*	Availability factor (i.e. the percentage of time a generation registered facility is available to generate electricity) of each generation registered facility	Quarterly, within 6 business days after the end of quarter	Generation Licensee	By fax or E-mail		

Type of data		Description	Frequency of collection	Source	Means of obtaining
Demand Data	36	Pre-dispatch load forecast	Daily, within 6 business days after the trading day	EMC	By CSV reports
	37	Real-time load forecast	Daily, within 6 business days after the trading day		
	38	Actual system demand (settlement ready metering data)	Daily, within 11 business days after the trading day		
	39	Historical system demand (past three years)	Once		By E-mail
Pricing Data	40	Half hourly Market Energy Price ("MEP") at all market network nodes ("MNN")	Daily, within 6 business days after the trading day	EMC	By CSV reports
	41	Half hourly Uniform Singapore Energy Price ("USEP")	Daily, within 6 business days after the trading day		
	42	Half hourly regulation price	Daily, within 6 business days after the trading day		
	43	Half hourly reserve prices: primary, secondary and contingency	Daily, within 6 business days after the trading day		
	44	Uplift charges	Daily, within 11 business days after the trading day		
	45*	Pre-dispatch schedules	Daily, within 6 business days after the trading day		
	46*	Real-time dispatch schedules	Daily, within 6 business days after the trading day		
47	Wholesale price (i.e. the approximate wholesale price that retailers pay for electricity) in \$/MWh	Monthly, within 6 business days after month end			
Other Data	48	Advisory notices reported by frequency, time, day and type	Daily, within 6 business days after the trading day	EMC	By CSV reports
	49*	Information on issuance of notice of default and exercise of rights of credit support	Upon occurrence, by the next business day		
	50*	Information on total cost and providers of contracts of ancillary services	Within 10 business days of entry into new contracts		
	51*	Total turnover in the energy market in MWh and \$	Monthly, within 11 business days after month end		