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WESM Manual

Catalogue of Market Monitoring Data and Indices Issue 2.0

Abstract	This document covers the list of market monitoring indices to be used in assessing the development of the wholesale electricity spot market.
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Issue No.	Proponent	Date of Effectivity	Reason for Amendment
1.0	MAG	17 May 2006	Original document.
2.0	MAG		Revisions were made to introduce additional indices on supply margin-price index, generator offer indices and spot price indices, as well as to incorporate updates and revisions to align with the implementation of 5-minute dispatch interval, and in consideration of the Market Surveillance Manual, as amended.

Document Approval

Issue No.	MSC Approval	MSC Resolution No.
1.0	17 May 2006	
2.0		

Reference Documents

Document ID	Document Title
	WESM Rules
TA 4073-PHI	Transition to Competitive Electricity Market, Report on Market Monitoring Indices prepared by Soluziona and Mercados Energy Market Group for the Department of Energy and Asian Development Bank under the Implementation Plan for WESM Institution Building, dated 02 March 2006
WESM-MSM-004	Market Surveillance Manual

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SECTION 1 INTRODUCTION**1.1 PURPOSE**

- 1.1.1 This document was developed and accordingly revised pursuant to the Market Surveillance Manual which requires the Market Surveillance Committee (MSC) to develop monitoring data and indices and prepare a catalogue thereof to effectively carry out its market surveillance function.
- 1.1.2 This document provides a list of market monitoring data and indices that will be used as a tool to assess competition and market outcomes.

1.2 SCOPE

This catalogue covers the following:

1. Monitoring data that shall be routinely provided by the Market Operator (MO) and System Operator (SO); and
2. Monitoring indices that will be used to process and analyze the monitoring data collected.

SECTION 2 MARKET MONITORING DATA

2.1 MONITORING DATA

2.1.1 Market monitoring data shall be routinely collected from MO and SO such as but not limited to:

1. Generating facilities registration information
2. Network data
3. Market offer/bid data
4. Scheduling and dispatch data
5. System operations data
6. Settlement data

2.1.2 Other data that will complement the MO/SO data may also be collected such as hydro generation data, publicly-available corporate documents (e.g. registration with the Securities and Exchange Commission), among others. Details of the monitoring data are contained in Appendix A.

SECTION 3 MARKET MONITORING INDICES**3.1 TYPES OF INDICES**

The indices provide indication of market trends, performance, possible drivers and signals which require more in-depth analysis. The types of indices are summarized as follows:

1. Market Performance Indices
2. Supply (Generation) Indices
3. Spot Market Price Indices
4. Transmission Constraints Indices
5. Structural: Market Concentration Indices and Pivotal Dynamic Indices
6. Generator Offer Indices

Details of the market monitoring indices are contained in Appendix B.

3.2 CALCULATION OF INDICES

3.2.1 The monitoring indices shall be calculated using the data generated from market projection, real-time and settlement processes.

3.2.2 Depending on the type of index, the indices may be calculated as follows:

- a) Per dispatch interval;
- b) Aggregated on an hourly, daily, weekly, monthly, quarterly, and annual basis;
- c) By generating plant, trading participant or by related participant groupings;
- d) System-wide or on a regional basis (i.e. Luzon, Visayas, Mindanao); and
- e) Working days, non-working days, peak and off-peak hours.

3.2.3 The indices may be calculated other than the cases cited above, depending on the analysis that will be undertaken.

3.3 REPORTORIAL REQUIREMENTS

The MAG shall prepare and submit market assessment reports to the MSC, containing an analysis of the market monitoring indices.

3.4 CONFIDENTIALITY

The market monitoring data shall remain subject to any confidentiality provisions contained in the WESM Rules and Market Operator Information Disclosure and Confidentiality Manual.

3.5 REVIEW AND UPDATE

The MSC, with the assistance of the Market Assessment Group (MAG), shall undertake a periodic review of this Catalogue and enhance the same as it deems appropriate, in view of findings and issues established or determined during the market surveillance process.

Appendix A. Market Monitoring Data

Type of Data	Description	Source
1. Generating Facilities Registration Information	a. Maximum stable load (Pmax)	MO
	b. Minimum stable load (Pmin)	
	c. Maximum capacity per reserve category	
	d. Ramp up and ramp down rates	
	e. Classification (e.g. scheduled, non-scheduled, must dispatch, priority dispatch)	
	f. Plant type (e.g. coal, natural gas, geothermal, hydro)	
2. Market Network Data	a. Maps and diagrams showing the location of each registered generating plant/unit and loads, and ratings of transmission lines	SO
	b. Market Network Model	MO
3. Market Offer/ Bid Data	a. Standing and working profiles of generation offers of scheduled generating units	MO
	b. Standing and working profiles of nomination of loading levels of non-scheduled generating units	
	c. Standing and working profiles of projected outputs of must dispatch and priority dispatch generating units	
	d. Standing and working profiles of demand bids of scheduled loads	
	e. Standing and working profiles of reserve offers of scheduled generating units	
	f. Standing and working profiles of reserve offers of customers for their interruptible load facilities	

Type of Data	Description	Source
4. Scheduling and Dispatch (Market Projections and Real-time Dispatch)	a. Dispatch schedules and prices for energy per node	MO
	b. Dispatch schedules and prices for reserve	
	c. List of pricing conditions	
	d. List of transmission lines and equipment constraints	
	e. HVDC line flow	
	f. Aggregate Data (e.g. load, loss)	
5. System Operations Data (Market Projections and Real-time Dispatch)	a. Outage schedules	MO
	b. Contingency lists	
	c. Reserve requirements	
	d. Over-riding constraints	
	e. System advisories	
	f. System snapshot	
6. System Operations Data (Post-dispatch Reports and Information)	a. Daily operations report	MO/SO
	b. Dispatch deviation report	
	c. Market intervention report	
	d. Report on must-run units	
7. Settlement Data	a. Energy trading amount details per dispatch interval	MO
	b. Reserve trading amount details per dispatch interval	