# **ELECTRICITY INDUSTRY ACT 2004**

# ELECTRICITY INDUSTRY (WHOLESALE ELECTRICITY MARKET) REGULATIONS 2004

# WHOLESALE ELECTRICITY MARKET RULES

# Market Procedure for: Meter Data Submissions

# Version 2

Commencement: This Market Procedure is to have effect from

8:00am (WST) on the same date as the Wholesale Electricity Market Rule, in which this procedure is made in accordance with,

commences.

# **Version history**

Xx xxxx 2009	Amendments to the Procedure resulting from Market Rule Change Proposal
	RC_2008_32: Calculation of IRCR

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## 1 Meter Data Submissions Procedure

#### 1. Meter Data Submissions Procedure

The Market Procedure for Meter Data Submissions (Procedure) covers the process by which a Metering Data Agent submits mMeter dData to the Independent Market Operator (IMO), including the timing and format of submissions.

# 1.1 Relationship with Market Rules

This Procedure has been developed in accordance with, and should be read in conjunction with clause 8.6.2 of the Wholesale Electricity Market (WEM) Rules (Market Rules)

Reference to particular Market Rules within the Procedure in bold and square brackets [MR XX] are current as of 10 July 2009. These references are included for convenience only, and are not part of this Procedure.

# 1.2 Interpretation

In this Procedure, unless the contrary intention is expressed:

- Terms used in this Procedure have the same meaning as those given in the Market Rules (made pursuant to the Electricity Industry WEM Regulations 2004);
- 1 To the extent that this Procedure is contrary or inconsistent with the Market Rules, the Market Rules shall prevail to the extent of the inconsistency;

\_\_\_\_This procedure is made in accordance with Market Rule 8.6.2.

References to particular Market Rules withing this procedure in bold and square brackets [MR XX] are current as of 10 July 2009.

# 1.1 Interpretation

In this procedure, unless the contrary intention is expressed:

5terms used in this procedure have the same meaning as those given in the Wholesale Electricity Market Rules (made pursuant to the Electricity Industry (Wholesale Electricity Market) Regulations 2004):

6to the extent that this procedure is contrary or inconsistent with the Market Rules, the Market Rules shall prevail to the extent of the inconsistency;

- <u>7• Aa</u> reference to the Market Rules or Market Procedures includes any associated forms required or contemplated by the Market Rules or Market Procedures;
- 8. Wwords expressed in the singular include the plural or vice versa; and

9. Tthe following terms have the following meanings:

"Business Hour" means the hours of 8 a.m. to 5 pm on a Business Day;

"Electronic" has the meaning given in the Metering Code:

"kW" means kilowatt;

"kWh" means kilowatt-hour:

"Energy Data" is as defined in the Metering Code;

"Metering Code" means the Electricity Industry Metering Code 2005 made pursuant to the Electricity Industry Act 2004;

"Metering Point" has the meaning given in the Metering Code:

"Metering Protocol" is the Electricity Industry Metering Code 2005 and associated documents:

"Notify" is as defined in Part 7 of the Metering Code;

"Reading Day" is the day the meter at a Metering Point was read.

# 1.32 Purpose

The purpose of this Pprocedure is to:

- outline who is a Metering Data Agent (and thus who is required to provide metering data to the IMO);
- describe the process for providing metering data to the IMO; and
- provide the format for <u>both m</u>Meter <u>d</u>Data <u>and Notional Wholesale Meter Data</u>
   Submissions

Much of the metering regime will be addressed outside of the Market Rules as the metering regime must address rules for providing metering data to all Market Participants.- Therefore, the Market Rules focus on who must provide metering data and the format for submitting that data.

# 1.3 Application

This procedure applies to the IMO and to Metering Data Agents.

# 1.44 Overview of Meter Data Submissions

A Metering Data Agent is required by the Metering Code to maintain a Meter Registry specifying which meter corresponds to each Market Participant and to provide metering data to the IMO for settlement purposes.

The Metering Data Agent provides Energy Data to the IMO once each Business Day by 5.00 pm. Data delivered will include the Energy Data received since the last data provision to the IMO, together with any updates to metering data already provided for the current or previous Trading Month or Months.

The Metering Data Agent is bound by provisions of the Metering Code that requires the Energy Data to be sent by 5.00 pm on the Business Day following receipt of the data, or by 5.00 pm on the second Business Day if the reading fails validation.

Each meter reading is sent only once unless queried, updated or replaced.

Data transfers and timings in the Metering Code only refer to Business Days. Thus, the latest day by which Energy Data will be provided on Business Days is as follows:

By this day	The following Energy Data will be provided			
Monday	Validated readings for Friday and			
	prior days;			
	<ul> <li>Late readings/ estimates/ defaults for Thursday;</li> </ul>			
	Updates for other days.			
Tuesday	<ul> <li>Validated readings for Monday,</li> </ul>			
	Saturday, Sunday and prior days;			
	<ul> <li>Late readings/ estimates/ defaults for Friday;</li> </ul>			
	<ul> <li>Updates for other days.</li> </ul>			
Wednesday	<ul> <li>Validated readings for Tuesday and prior days;</li> </ul>			
	Late readings/ estimates/ defaults for			
	Saturday, Sunday, Monday;			
	Updates for other days			
Thursday	<ul> <li>Validated readings for Wednesday and prior days;</li> </ul>			
	<ul> <li>Late readings/ estimates/ defaults for Tuesday;</li> </ul>			
	Updates for other days			
Friday	Validated readings for Thursday and			
	prior days;			
	<ul> <li>Late readings/ estimates/ defaults for Wednesday;</li> </ul>			
	Updates for other days			
Saturday	Nothing			
Sunday	Nothing			

In practice, a Metering Data Agent can send the information through earlier than outlined in the above table and it is anticipated that Energy Data will be sent on the day that it becomes available.

It should be noted Note: Ethat each Metering Data Agent must operate to the requirements of the Metering Code. For the purpose of this Pprocedure, the Metering Protocol is defined as the Metering Code, which details the arrangement between the Metering Data Agent and the Market Participants to whom it provides the service. While the basic requirements for a Metering Protocol are outlined in the Market Rules [MR 8.7] Market Rule 8.7, the Metering Code is a considerably more detailed document in its definitions of metering and meter data provision to the market. The Metering Code also has supporting documents in the Generic Metering Code Model Service Level Agreement, Metering Code Communications Rules and The Metering Code Metrology Procedure.

# 1.55 Summary of Interaction between Metering Data Agent and the IMO

Exhibit 1-1 outlines the interaction between the Metering Data Agent and the IMO.- For the purpose of Exhibit 1-1, MDA refers to the Metering Data Agent.

purpose of Exhibit 1-1, MDA felers to		•
ACTION	BY WHOM	WHEN
Meter Data Submissions	T	
Submit mMeter dData and any adjustments	MDA	Data which passes validation is sent by 5 pm on the Business Day it became available to the MDA; data which fails validation will be sent no later than 5 pm on the second Business Day after it became available to the MDA.
Receive Data and Provide Confirmation	IMO / Auto Response	Within one Business Hour of receipt
Receive Confirmation	MDA	Within one Business Hour of submission
If no confirmation received, contact IMO	MDA	By 11 am on next Business Day
If contacted by MDA regarding non-confirmation, determine if submission received and:  - Provide confirmation; or - Make alternate arrangements for submission with MDA	IMO	As soon as practical
Changes To Metering Arrangements		
Provide any changes to identity of Market Participant whose supply/consumption is measured by meter	MDA	At least three Business Days prior to the transfer that effects the change. (Please refer to the note provided below this table.)
Notices of Disagreement or Dispute		
Provide MDA with notification of Notice of Disagreement or Notice of Dispute. In addition, for Notice of Disagreement: - Request information; and - Provide time and date for response that is within 60 days of date notice confirmed	IMO	Within five days of confirming notice
Receive Notification and acknowledge receipt, as required	MDA	
Respond to Notification per Metering Code. In addition, for Notice of Disagreement: - Investigate and Respond	MDA	By date specified by IMO
Correct Energy Data, if applicable	MDA	As soon as practicable
Support Calculations	,	
Request meter information	IMO	
Provide requested information	MDA	Within five Business Days of the request
Provide nNotional mMeter dData	MDA	For Trading Month N-3 by the 1st day of the month

klk NOTE: The Market Rules currently specify that the IMO must be notified of changes to metering arrangements no later than ten Business Days prior to any submission pertaining to the metering point under consideration (Market Rule 8.3.5). This was intended to reflect the later deadline of the Market Rules, not the stricter Metering Code provisions (i.e. the intent is that metering arrangement changes must be notified in advance of the settlement calculations that use data for impacted metering points). This deadline has been used in anticipation of a Market Rules change to support it.

# 1.66 Metering Data Agents

A Metering Data Agent is required for each Network. –A Metering Data Agent must keep an updated Meter Registry and provide metering data to the IMO [MR 8.2]. , in accordance with Market Rule 8.2.

Generally, the Network Operator will also be the Metering Data Agent for any Network registered by it. –However, a Network Operator can choose not to fulfil this function by notifying the IMO and the Electricity Networks Corporation. –Any such notification must be in writing, by email or facsimile, to the following:

\* The IMO: as outlined in Notices and Communications Procedure

• The Electricity Networks Corporation:

Email: andrew.wood@westernpower.com.au

• Facsimile: +61 (0) 8 9359 7594

The Electricity Networks Corporation will then become the Metering Data Agent for that Network.- The Electricity Networks Corporation is to advise the IMO and the Network Operator, in writing, of the effective date at which it will become the Metering Data Agent for the relevant Network.

# 1.7 Procedure Steps to be followed by the Metering Data Agent submitting mMeter dData

#### **Meter Data Submission**

Meter Data Submission — As soon as the relevant data becomes available, but no later than 5 pm on the first Business Day of the second month following the month in which the Trading Month commenced, a Metering Data Agent must ensure that Meter Data Submissions in respect of the meter data for all interval read meters for the Trading Month are complete for that month. Meter Data Submissions must also include any adjustments in relation to meter data for interval read meters previously submitted.

A Metering Data Agent will be providing meter data to the IMO on a daily basis.— The "first Business Day of the second month following the month in which the Trading Month commenced" represents a deadline in which meter data (actual or estimated) for the Trading Month is required to have been provided.

#### Format and Method of Submission

2 Format and Method of Submission The format of a Meter Data Submission is in accordance with Market Rule 8.6 and is outlined in Section 1.9 of this Pprocedure. A

Meter Data Submission is made using the Wholesale Electricity Market System ("WEMS"). [MR 8.4.3] (Market Rule 8.4.3).

#### Confirmation

3 Confirmation—If a Metering Data Agent has not received confirmation from the IMO of receipt of a Meter Data Submission by 11.00 am on the next Business Day, the Metering Data Agent must contact the IMO by telephone. -It may be necessary to make alternate arrangements to submit the data.

#### **Changes to Metering Arrangements**

4 Where changes have occurred to the identities of Market Participants whose consumption is measured by a meter for which a Metering Data Agent is responsible, the Metering Data Agent must notify the IMO of any changed metering arrangements. This notification must occur at least three Business Days prior to deadline stated in the Market Rules for a metering point that is impacted by the changed metering arrangements.

#### **Notices of Disagreement or Notices of Dispute**

- 5 If a Metering Data Agent receives notification from the IMO of a Notice of Disagreement or Notice of Dispute that relates to the meter data for which a Metering Data Agent is responsible, the Metering Data Agent must:
  - respond to the notice in accordance with the Metering Code; and
  - following correction of any meter data, include the revised data in its next Meter Data Submission[MR 8.5.2].

#### . (Market Rule 8.5.2)

- 6 For a Notice of Disagreement, in addition to the requirements in Section 1.8, Step 4 of this Perocedure, a Metering Data Agent must also:
  - investigate the accuracy of the item in question; and
  - provide a response to the IMO within the time and date specified by the IMO, including:
  - •
- −o reporting on the actions taken to investigate the accuracy of the item; and
- giving a revised value for the item, if applicable, which may be a revised value that the Metering Data Agent considers to be in compliance with the Market Rules and the Metering Code. [MR 9.20.5].

#### (Market Rule 9.20.5)

These requirements are in addition to the requirements under [MR 9.21] Market Rules 9.21 and [MR 2.19] 2.19 in relation to Notices of Dispute.

#### **Support Calculations**

7 If the IMO notifies a Metering Data Agent of a request, in accordance with the Metering Code communication rules, for any meter information held by the Metering Data Agent,

the Metering Data Agent must provide the requested information to the IMO within five Business Days [MR 8.8.1].

. (Market Rule 8.8.1)

8 Where changes have occurred in the Standing Data relating to a meter, the Metering Data Agent will provide the IMO with updated information within 24 hours of the change.

## 1.88 Procedure Steps to be followed by the IMO

- 1.8 Procedure steps to be followed by the IMO
  - 1 Receipt of Meter Data Submission The Upon receipt of a Mmeter Delata Submission, WEMS will generate an automated confirmation of receipt of a Meter Data Submission. [MR 8.4.4](Market Rule 8.4.4).

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Non-receipt of Meter Data Submission – In the event that the IMO receives notification from a Metering Data Agent that a Meter Data Submission was made using the WEMS but that the Metering Data Agent did not receive a confirmation, the IMO will determine whether the Submission has been received and:

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- •• if it has, issue a confirmation; and
- if the IMO has no record of the submission, the IMO will use its best endeavours to determine the failure in the process and, where necessary, may make alternative arrangements for the submission of the meter data.

#### **Changes to Metering Arrangements**

Where the IMO has received notification from a Metering Data Agent of changed metering arrangements for which the Metering Data Agent is responsible, the WEMS will generate an automated confirmation of receipt within one Business Day of receiving the meter data. -[MR 8.3.6].

(Market Rule 8.3.6)

#### **Notices of Disagreement and Notices of Dispute**

- The IMO must notify a Metering Data Agent of any Notice of Disagreement or Notice of Dispute that the IMO receives in relation to meter data for which the Metering Data Agent is responsible. In accordance with Market Rule 8.5.1, Tthis notification will be no later than five Business Days after the IMO confirms receipt of the Notice with the lodging party. [MR 8.5.1].
- 5 For a Notice of Disagreement, in addition to Step 4 above, the IMO will also:
  - notify the Metering Data Agent of a time and date by which the IMO requires the Metering Data Agent to provide the IMO with a response to the Notice of Disagreement. The date will be no later than 60 days after the IMO confirmed receipt of the Notice with the lodging party; and

require the Metering Data Agent to investigate the accuracy of the item in question and provide a response by the specified time and date. (Market Rule 9.20.5)

These requirements are in addition to the requirements under Market Rule 9.20 in relation to Notices of Disagreement [MR 9.20] and Market Rules 9.21 and 2.19 in relation to Notices of Dispute. [MR 9.21]. and [MR 2.19].

## 1.99 Format of Meter Data Submissions

#### 1.9 Format of Meter Data Submissions

In developing and submitting a Meter Data Submission via the WEMS, a Metering Data Agent will provide the following data, in either the NEM 12 or NEM 13 format- [MR 8.6.1]:

(Market Rule 8.6.1)

- 1 Identity of the Metering Data Agent:
- 2 The\_-Reading Day to which the meter data relates;
- 3 For each interval meter and each Trading Interval in the Trading Month:
  - (a) the identity of the meter the IMO will already have the information for the Market Participant associated with each meter due to registration data, and standing data update notifications;
  - (b) the kWh quantity measured by the relevant meter; and
  - (c) whether the kWh quantity in (b) is based on an actual meter reading or an estimate or substitute, including the applicable code describing the reason for the estimate or substitute Node. –The <a href="mm">mm</a> Meter <a href="mm">dD</a> ata File Format Specifications for the communication and delivery of metering data will be in accordance with NEM12 (for interval data) and NEM13 for basic data. –(See National Electricity Market Management Company Limited Meter Data File Formation Specification NEM 12 & NEM 13 and NEM12 & NEM 13 File Format Clarifications);
- 4 Any meter adjustments stemming from actual meter data becoming available, must include:
  - (a) the Reading Day to which the adjustment applies;
  - (b) the interval meter and each Trading Interval for which changes have resulted; and
  - (c) the kWh quantity for the meter:

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- 5 Any meter adjustments stemming from the resolution of a dispute in relation to meter data, must include:
  - (a) the Reading Day to which the adjustment applies;
  - (b) the interval meter and each Trading Interval for which changes have resulted;
  - (c) the kWh quantity for the meter; and
  - (d) whether the quantity is based on an actual meter reading or an estimate, including the applicable code describing the reason for the estimate.

#### 1.100 Format of Monthly Notional Meter Data Submissions

In developing and submitting a Meter Data Submission for monthly Notional Wholesale Meters via the WEMS, a Metering Data Agent will provide the following data, in either the NEM 12 or NEM 13 format. [MR 8.6.1]:

- 1 ildentity of the Metering Data Agent;
- 2 the network zone;
- 3 the meter install code;
- 4 the number of non-interval or accumulation meters that existed at the end of the Trading Month:
- 5 the number of new non-interval meters or accumulation meters connected during the Trading Month; and
- 6 the number of non-interval or accumulation meters abolished during the Trading Month.

# 1.111 Metering Protocol Requirements

# 1.10 Metering Protocol Requirements

A Metering Data Agent is required to operate in accordance with the Metering Protocol, which for the purpose of this <u>P</u>procedure is the Metering Code. The Metering Code prescribes the following requirements [MR 8.7.1], in accordance with Market Rule 8.7.1.:

- The requirement for a Metering Data Agent to maintain a Meter Registry to track an identifying number unique to each connection point, the location of the meter and the Market Participant, if any, associated with the meter\_Node. In addition, <a href="MR 8.3">[MR 8.3]</a> Market Rule 8.3 outlines the requirements for maintaining a Meter Registry, including requirements:
  - •• for confirmation of Meter Registry Information during facility registration;

 to adjust the Registry on notification from the IMO that a facility has been registered or deregistered; and

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- to notify the IMO of changes to metering arrangements;
- 2 The recording of interval meter data for publishing to the market, will be for a 30-minute period starting on the hour and on the half-hour;
- The process for estimating data in accordance with the Metering Code Metrology Procedure:
- 4 The process for addressing any metering data errors arising from errors in meter reading, failure to read a meter, any otherwise missing meter data and falsification:
- 5 A dispute resolution process as pertains to any actions taken in adherence with the Metering Code or the Market Rules; and
- 6 Modification of the Metering Code, including in the event of Market Rule changes.

The Market Rules only provide for the minimum requirements for a Metering Protocol. The Metering Code is a more detailed description of metering and Meter Data Submissions, including requirements such as check metering, access and auditing of information, metering location.