

Rule modification title	Market Rule Changes to Enable Electricity Imports Trial
Submitted By: Date:	Energy Market Authority 2 December 2021
Rules Version/ Chapter/ Section	<p><u>Market Rules</u> (Version 1 April 2021):</p> <ul style="list-style-type: none"> <li>• Chapter 2, sections 1.2.1.2, 2.1.1, 5.1, 5.2.6, 5.4A, 5.6</li> <li>• Chapter 3, sections 7.3, 7.4, 7.5</li> <li>• Chapter 4, section 1.1</li> <li>• Chapter 5, sections 3.2, 3.7, 3.8, 5.2, 6.3, 7.1, 7.7, 9.2, 9.9, 10.1, 10.4, 12.5 and Appendix C</li> <li>• Chapter 6 section 3.1, 5.1, 5.2, 7.5, 7.6, 7.7, 9.2, 10.3, 10.4, 11.1, Appendix C, D, E, G and H</li> <li>• Chapter 7 section 2.2, 3.1,3.2 and Appendix A</li> <li>• Chapter 8</li> </ul> <p><u>Market Manuals</u></p> <ul style="list-style-type: none"> <li>• Application form for Registration of Import Registered Facility by an Importer Licensee (new)</li> <li>• Market Operation Market Manual (Settlement), section 4A</li> <li>• Market Operation Market Manual (Standing Offers, Standing Bids, Offer Variations, Bid Variations and Standing Capability Data), sections 2.1, 2.7, 3.1, 4.5.10</li> </ul>
Description of Market Rules	Please refer to <b>Annex 1</b> for the proposed modifications to the market rules, and <b>Annex 2 to 4</b> for the proposed modification to the market manuals.
Reasons for amendment	The proposed modifications to the market rules and market manuals are to give effect to the EMA's <a href="#">information paper</a> on "Market Rules Changes to Enable Electricity Imports trial from Malaysia and Lao PDR-Thailand-Malaysia-Singapore Power Integration Project ("LTMP-PIP)".
Impact of proposed amendment on MP, MO, PSO and general public	Importers that participate in the electricity import trial will be required to <ul style="list-style-type: none"> <li>a. be registered as a Market Participant with EMC to trade in the market;</li> <li>b. apply to EMC to register an Import Registered Facility and offer into the energy market to secure dispatch of import quantity;</li> <li>c. settle the import quantity based on Pay-As-Scheduled and bear its fair share of reserve cost; and</li> </ul>

	<p>d. comply with any Must-Schedule Requirement as may be imposed by the EMA and other obligations under the market rules.</p>
EMC's Comments	<p>The proposed modifications are made pursuant to the EMA's directive made under Section 46(2)(b) of the Electricity Act.</p> <p>The EMA approved the proposed modifications on 14 January 2022.</p> <p>The modifications will take effect on 26 January 2022.</p>

## **Annex 1: Proposed Rule Modification**

Note: The corresponding formatting and editorial amendments will be made to the proposed modified text (see highlights in **yellow**) to ensure consistency with the rest of the Market Rules and provide greater clarity.

Existing Market Rules (1 April 2021)	Proposed Rule Changes (Deletions represented by strikethrough text and additions represented by double underlined text)	Reasons for Modification
<b>Chapter 2 – Participation</b>	<b>Chapter 2 – Participation</b>	
<b>1 INTRODUCTION</b>	<b>1 INTRODUCTION</b>	
1.2.1.2 subject to sections 5.1.2 to 5.1.9, the facility to or from which the <i>physical service</i> is to be so conveyed has been registered by the EMC as a <i>registered facility</i> , as a <i>commissioning generation facility</i> , as a <i>generation settlement facility</i> , or as a <i>non-exporting embedded intermittent generation facility</i> pursuant to section 5.2, 5.3, 5.4 or 5.4B, as the case may be.	1.2.1.2 subject to sections 5.1.2 to 5.1.9 <u>and 5.1.11</u> , the facility to or from which the <i>physical service</i> is to be so conveyed has been registered by the EMC as a <i>registered facility</i> , as a <i>commissioning generation facility</i> , as a <i>generation settlement facility</i> , or as a <i>non-exporting embedded intermittent generation facility</i> pursuant to section 5.2, 5.3, 5.4 or 5.4B, as the case may be.	Consequential amendment.
<b>2 CLASSES OF MARKET PARTICIPANTS</b>	<b>2 CLASSES OF MARKET PARTICIPANTS</b>	
[New Section]	<u>2.1.1.2A importer licensee class of market participants, comprising of all market participants who are importer licensees;</u>	To add in new class of MP.

<p>2.1.1.3 wholesale trader class of <i>market participants</i>, comprising of all <i>market participants</i> (other than <i>generation licensees</i>, <i>retail electricity licensees</i> and <i>transmission licensees</i>), that either have been granted an <i>electricity licence</i> permitting them to <i>trade</i> in the <i>wholesale electricity markets</i> or are exempt by an order made pursuant to section 8 of the <i>Electricity Act</i> from the obligation to hold such an <i>electricity licence</i>; and</p>	<p>2.1.1.3 wholesale trader class of <i>market participants</i>, comprising of all <i>market participants</i> (other than <i>generation licensees</i>, <i>retail electricity licensees</i>, <u><i>importer licensees</i></u> and <i>transmission licensees</i>), that either have been granted an <i>electricity licence</i> permitting them to <i>trade</i> in the <i>wholesale electricity markets</i> or are exempt by an order made pursuant to section 8 of the <i>Electricity Act</i> from the obligation to hold such an <i>electricity licence</i>; and</p>	<p>Consequential amendment.</p>
<p><b>5 FACILITIES REGISTRATION</b></p>	<p><b>5 FACILITIES REGISTRATION</b></p>	
<p>5.1.1.2 subject to sections 5.1.2 to 5.1.9, the facility to or from which the <i>physical service</i> is to be so conveyed has been registered by the <i>EMC</i> as a <i>registered facility</i>, as a <i>commissioning generation facility</i>, as a <i>generation settlement facility</i> or as a <i>non-exporting embedded intermittent generation facility</i> pursuant to section 5.2, 5.3, 5.4 or 5.4B, as the case may be.</p>	<p>5.1.1.2 subject to sections 5.1.2 to 5.1.9 <u>and 5.1.11</u>, the facility to or from which the <i>physical service</i> is to be so conveyed has been registered by the <i>EMC</i> as a <i>registered facility</i>, as a <i>commissioning generation facility</i>, as a <i>generation settlement facility</i> or as a <i>non-exporting embedded intermittent generation facility</i> pursuant to section 5.2, 5.3, 5.4 or 5.4B, as the case may be.</p>	<p>Consequential amendment.</p>
<p>[New Section]</p>	<p>5.1.11 <u>A person that intends to participate in the <i>real-time markets</i> <del>or and</del> cause or permit a <i>physical service energy</i> to be conveyed into, through or out of the <i>transmission system</i> from any facility, installation and/or apparatus used for, or for purposes connected with, the production of <i>electricity</i> for <i>import</i> into the <i>transmission system</i>, or the <i>import</i> of <i>electricity</i>, shall register such facility, installation and/or apparatus as an <i>import registered facility</i>.</u></p>	<p>To set out requirement for the facility, installation and/or apparatus used for the import of electricity to be registered as an import registered facility.</p>

<p><b>5.2</b>     <u><b>REGISTRATION OF GENERATION REGISTERED FACILITIES AND LOAD REGISTERED FACILITIES</b></u></p> <p>5.2.6     The information required for registration as a <i>registered facility</i> shall, subject to any lesser information requirements that may be specified in the applicable <i>market manual</i> in respect of the registration of a given class or size of facility, include:</p> <p>...</p> <p>5.2.6.5   the location of the facility and the identity of the RQM that will measure the flow of <i>energy</i> between the facility and the <i>transmission system</i>; and</p>	<p><b>5.2</b>     <u><b>REGISTRATION OF GENERATION REGISTERED FACILITIES, IMPORT REGISTERED FACILITIES AND LOAD REGISTERED FACILITIES</b></u></p> <p>5.2.6     The information required for registration as a <i>registered facility</i> shall, subject to any lesser information requirements that may be specified in the applicable <i>market manual</i> in respect of the registration of a given class or size of facility, include:</p> <p>...</p> <p>5.2.6.5   the location of the facility and, <u>where applicable,</u> the identity of the RQM that will measure the flow of <i>energy</i> between the facility and the <i>transmission system</i>; and</p>	<p>To provide for registration of facilities such as import registered facilities where Revenue Quality Meter (RQM) is not required for registration.</p>
<p><b>5.4A</b>    <u><b>REGISTRATION OF GENERATION SETTLEMENT FACILITIES BY A MARKET SUPPORT SERVICES LICENSEE</b></u></p> <p>5.4A.4    A <i>generation settlement facility</i> that is registered pursuant to section 5.4A.3 or 5.4A.3A shall be classified by the <i>EMC</i> as a <i>pseudo generation settlement facility</i>.</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p><b>Explanatory Note:</b></p> <p>...</p> <p><b>The market energy price to be paid to the pseudo generation settlement facility will be the volume-weighted average market energy price of all generation registered facilities, calculated in accordance with section D.24.1.3 of Appendix 6D.</b></p> </div>	<p><b>5.4A</b>    <u><b>REGISTRATION OF GENERATION SETTLEMENT FACILITIES BY A MARKET SUPPORT SERVICES LICENSEE</b></u></p> <p>5.4A.4    A <i>generation settlement facility</i> that is registered pursuant to section 5.4A.3 or 5.4A.3A shall be classified by the <i>EMC</i> as a <i>pseudo generation settlement facility</i>.</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p><b>Explanatory Note:</b></p> <p>...</p> <p><b>The market energy price to be paid to the pseudo generation settlement facility will be the volume-weighted average market energy price of all generation registered facilities <u>and import registered facilities</u>, calculated in accordance with section D.24.1.3 of Appendix 6D.</b></p> </div>	<p>Consequential amendment.</p>

<p><b>5.6 PUBLICATION OF FACILITY DATA</b></p> <p>5.6.1 The <i>EMC</i> shall establish, maintain, update and <i>publish</i> a list containing the information specified in sections 5.6.2 and 5.6.3.</p>	<p><b>5.6 PUBLICATION OF FACILITY DATA</b></p> <p>5.6.1 The <i>EMC</i> shall establish, maintain, update and <i>publish</i> a list containing the information specified in sections 5.6.2, <u>5.6.2A</u> and 5.6.3.</p> <p>...</p> <p><u>5.6.2A The list referred to in section 5.6.1 shall contain the following information most currently available to the <i>EMC</i> in respect of each <i>import registered facility</i> registered with the <i>EMC</i> under section 5.2:</u></p> <p><u>5.6.2A.1 the identity of the <i>market participant</i> in respect of which such <i>import registered facility</i> is registered;</u></p> <p><u>5.6.2A.2 the identity of such <i>import registered facility</i>; and</u></p> <p><u>5.6.2A.3 the maximum <i>import capacity</i> of such <i>import registered facility</i>.</u></p> <div style="border: 1px solid black; padding: 5px;"> <p><u><b>Explanatory note: For the purpose of the publication of facility data in this section, information in respect of an import registered facility will be indicated as a subtype of generation registered facility.</b></u></p> </div>	<p>To extend the scope of publication of facility data to import registered facilities.</p>
<p>Chapter 3 – Administration, Supervision &amp; Enforcement</p>	<p>Chapter 3 – Administration, Supervision &amp; Enforcement</p>	
<p>7 ENFORCEMENT</p>	<p>7 ENFORCEMENT</p>	

<p>7.3.13 Where, upon conclusion of the hearing referred to in section 7.3.11, the <i>market surveillance and compliance panel</i> intends to issue a <i>suspension order</i> to a <i>market participant</i> that is a <i>generation licensee</i> the <i>market surveillance and compliance panel</i> shall request that the <i>Authority</i> take action, which may include applying to the Minister responsible for the <i>Electricity Act</i> for the issuance of a special administration order under section 29(1)(a) of the <i>Electricity Act</i> in relation to the <i>market participant</i>, to ensure that all outstanding and future financial and other obligations and liabilities of the <i>market participant</i> under the <i>market rules, market manuals</i> and the <i>system operation manual</i> will be met. The <i>Authority</i> shall promptly, following receipt of such request:</p> <p>...</p>	<p>7.3.13 Where, upon conclusion of the hearing referred to in section 7.3.11, the <i>market surveillance and compliance panel</i> intends to issue a <i>suspension order</i> to a <i>market participant</i> that is a <i>generation licensee or an importer licensee</i> the <i>market surveillance and compliance panel</i> shall request that the <i>Authority</i> take action, which may include applying to the Minister responsible for the <i>Electricity Act</i> for the issuance of a special administration order under section 29(1)(a) of the <i>Electricity Act</i> in relation to the <i>market participant</i>, to ensure that all outstanding and future financial and other obligations and liabilities of the <i>market participant</i> under the <i>market rules, market manuals</i> and the <i>system operation manual</i> will be met. The <i>Authority</i> shall promptly, following receipt of such request:</p> <p>...</p>	<p>To extend “generation licensee” to “importer licensee”.</p>
<p>7.3.17 Where section 7.3.16.2 applies in respect of a <i>suspended market participant</i> that is a <i>generation licensee</i>, any amounts that may be owing to the <i>suspended market participant</i> on account of injections by any of the <i>suspended market participant’s</i> affected <i>generation facilities</i> while the <i>suspension order</i> is in effect shall be dealt with by the <i>market surveillance and compliance panel</i> in such manner as the <i>market surveillance and compliance panel</i> deems appropriate.</p>	<p>7.3.17 Where section 7.3.16.2 applies in respect of a <i>suspended market participant</i> that is a <i>generation licensee or an importer licensee</i>, any amounts that may be owing to the <i>suspended market participant</i> on account of injections by any of the <i>suspended market participant’s</i> affected <i>generation facilities or import registered facilities (as the case may be)</i> while the <i>suspension order</i> is in effect shall be dealt with by the <i>market surveillance and compliance panel</i> in such manner as the <i>market surveillance and compliance panel</i> deems appropriate.</p>	<p>To extend “generation licensee” to “importer licensee” and “import registered facility”.</p>



<p>7.4.8 Where the <i>market surveillance and compliance panel</i> intends to issue a <i>termination order</i> to a <i>market participant</i> that is a <i>generation licensee</i>, the <i>market surveillance and compliance panel</i> shall, at the time at which it provides the notice to the <i>Authority</i> referred to in section 7.4.4, request that the <i>Authority</i> take action, which may include applying to the Minister responsible for the <i>Electricity Act</i> for the issuance of a special administration order under section 29(1)(a) of the <i>Electricity Act</i> in relation to the <i>market participant</i>, to ensure that all outstanding and future financial and other obligations and liabilities of the <i>market participant</i> under the <i>market rules</i>, <i>market manuals</i> and the <i>system operation manual</i> will be met. The <i>Authority</i> shall promptly following receipt of such request:</p> <p>...</p>	<p>7.4.8 Where the <i>market surveillance and compliance panel</i> intends to issue a <i>termination order</i> to a <i>market participant</i> that is a <i>generation licensee</i> <u>or an importer licensee</u>, the <i>market surveillance and compliance panel</i> shall, at the time at which it provides the notice to the <i>Authority</i> referred to in section 7.4.4, request that the <i>Authority</i> take action, which may include applying to the Minister responsible for the <i>Electricity Act</i> for the issuance of a special administration order under section 29(1)(a) of the <i>Electricity Act</i> in relation to the <i>market participant</i>, to ensure that all outstanding and future financial and other obligations and liabilities of the <i>market participant</i> under the <i>market rules</i>, <i>market manuals</i> and the <i>system operation manual</i> will be met. The <i>Authority</i> shall promptly following receipt of such request:</p> <p>...</p>	<p>To extend “generation licensee” to “importer licensee”.</p>
<p>7.4.11 Where a <i>termination order</i> has been issued to a terminated <i>market participant</i> that is a <i>generation licensee</i>, any amounts that may be owing to the terminated <i>market participant</i> on account of injections by any of the terminated <i>market participant’s generation facilities</i> after the date on which the <i>termination order</i> was issued shall be dealt with by the <i>market surveillance and compliance panel</i> in such manner as the <i>market surveillance and compliance panel</i> deems appropriate.</p>	<p>7.4.11 Where a <i>termination order</i> has been issued to a terminated <i>market participant</i> that is a <i>generation licensee</i> <u>or an importer licensee</u>, any amounts that may be owing to the terminated <i>market participant</i> on account of injections by any of the terminated <i>market participant’s generation facilities</i> <u>or import registered facilities (as the case may be)</u> after the date on which the <i>termination order</i> was issued shall be dealt with by the <i>market surveillance and compliance panel</i> in such manner as the <i>market surveillance and compliance panel</i> deems appropriate.</p>	<p>To extend “generation licensee” to “importer licensee”.</p>

<p>7.5.7 Where the <i>market surveillance and compliance panel</i> intends to issue a <i>revocation order</i> to a <i>market participant</i> that is a <i>generation licensee</i>, the <i>market surveillance and compliance panel</i> shall, at the time at which it provides the notice to the <i>Authority</i> referred to in section 7.5.3, request that the <i>Authority</i> take action, which may include applying to the Minister responsible for the <i>Electricity Act</i> for the issuance of a special administration order under section 29(1)(a) of the <i>Electricity Act</i> in relation to the <i>registered facilities</i> of the <i>market participant</i> that would be the subject of the <i>revocation order</i>, to ensure that all outstanding and future financial and other obligations and liabilities of the <i>market participant</i> under the <i>market rules</i>, <i>market manuals</i> and the <i>system operation manual</i> in respect of such <i>registered facilities</i> will be met. The <i>Authority</i> shall promptly following receipt of such request:</p> <p>...</p>	<p>7.5.7 Where the <i>market surveillance and compliance panel</i> intends to issue a <i>revocation order</i> to a <i>market participant</i> that is a <i>generation licensee</i> <u>or an importer licensee</u>, the <i>market surveillance and compliance panel</i> shall, at the time at which it provides the notice to the <i>Authority</i> referred to in section 7.5.3, request that the <i>Authority</i> take action, which may include applying to the Minister responsible for the <i>Electricity Act</i> for the issuance of a special administration order under section 29(1)(a) of the <i>Electricity Act</i> in relation to the <i>registered facilities</i> of the <i>market participant</i> that would be the subject of the <i>revocation order</i>, to ensure that all outstanding and future financial and other obligations and liabilities of the <i>market participant</i> under the <i>market rules</i>, <i>market manuals</i> and the <i>system operation manual</i> in respect of such <i>registered facilities</i> will be met. The <i>Authority</i> shall promptly following receipt of such request:</p> <p>...</p>	<p>To extend “generation licensee” to “importer licensee”.</p>
<p>7.5.10 Where a <i>revocation order</i> has been issued to a <i>market participant</i> that is a <i>generation licensee</i>, any amounts that may be owing to the <i>market participant</i> on account of injections by any of the <i>market participant’s generation facilities</i> that are the subject of the <i>revocation order</i> after the date on which the <i>revocation order</i> was issued shall be dealt with by the <i>market surveillance and compliance panel</i> in such manner as the <i>market surveillance and compliance panel</i> deems appropriate.</p>	<p>7.5.10 Where a <i>revocation order</i> has been issued to a <i>market participant</i> that is a <i>generation licensee</i> <u>or an importer licensee</u>, any amounts that may be owing to the <i>market participant</i> on account of injections by any of the <i>market participant’s generation facilities</i> <u>or import registered facilities (as the case may be)</u> that are the subject of the <i>revocation order</i> after the date on which the <i>revocation order</i> was issued shall be dealt with by the <i>market surveillance and compliance panel</i> in such manner as the <i>market surveillance and compliance panel</i> deems appropriate.</p>	<p>To extend “generation licensee” to “importer licensee” and “import registered facility”.</p>
<p><b>Chapter 4 – Connection and Metering</b></p>	<p><b>Chapter 4 – Connection and Metering</b></p>	
<p><b>1 TRANSMISSION CONNECTION</b></p>	<p><b>1 TRANSMISSION CONNECTION</b></p>	

[New Section]	1.1.1A <u>Each market participant for an import registered facility shall enter into and maintain a connection agreement with the transmission licensee, in such form as may be required by the transmission code, in respect of such import registered facility and/or for the use of the intertie to import electricity into the transmission system.</u>	To require a MP for an import registered facility to enter into a connection agreement with the transmission licensee.
<b>CHAPTER 5 – SYSTEM OPERATION</b>	<b>CHAPTER 5 – SYSTEM OPERATION</b>	
<b>3 OBLIGATIONS AND RESPONSIBILITIES</b>	<b>3 OBLIGATIONS AND RESPONSIBILITIES</b>	
<p><b>3.2 <u>OBLIGATIONS OF THE PSO</u></b></p> <p>3.2.1 The <i>PSO</i> shall direct the operations and maintain the <i>reliability</i> of the <i>PSO controlled system</i> and arrange for the <i>secure</i> operation of the <i>PSO controlled grid</i>. The <i>PSO's</i> responsibilities in this regard shall include:</p> <p>...</p> <p>3.2.1.2 issuing orders, directions or instructions to <i>dispatch generation facilities and load facilities</i> in accordance with these <i>market rules</i>;</p>	<p><b>3.2 <u>OBLIGATIONS OF THE PSO</u></b></p> <p>3.2.1 The <i>PSO</i> shall direct the operations and maintain the <i>reliability</i> of the <i>PSO controlled system</i> and arrange for the <i>secure</i> operation of the <i>PSO controlled grid</i>. The <i>PSO's</i> responsibilities in this regard shall include:</p> <p>...</p> <p>3.2.1.2 issuing orders, directions or instructions to <i>dispatch <del>generation facilities and load facilities</del> <u>generation registered facilities, import registered facilities and load registered facilities</u></i> in accordance with these market rules;</p>	To extend to import registered facilities.

<p>3.7.5 For the avoidance of doubt, section 3.7.3 and Appendix 5D shall not apply to a <i>generation settlement facility</i> or a <i>commissioning generation facility</i>.</p>	<p>3.7.5 For the avoidance of doubt, section 3.7.3 and Appendix 5D shall not apply to a <i>generation settlement facility</i>, <u>an <i>import registered facility</i></u> or a <i>commissioning generation facility</i>.</p>	<p>Consequential amendment.</p>
<p><b>Explanatory Note: A generation settlement facility is not subject to dispatch, that is, no dispatch schedules are produced for and no dispatch instructions are issued to a generation settlement facility. Accordingly, the automatic financial penalty scheme does not apply to generation settlement facilities. The automatic financial penalty scheme will also not apply to commissioning generation facilities.</b></p>	<p><b>Explanatory Note: A generation settlement facility is not subject to dispatch, that is, no dispatch schedules are produced for and no dispatch instructions are issued to a generation settlement facility. Accordingly, the automatic financial penalty scheme does not apply to generation settlement facilities. The automatic financial penalty scheme will also not apply to <u>import registered facilities or commissioning generation facilities</u>.</b></p>	

<p>[New Sections]</p>	<p><b><u>3.8 OBLIGATIONS OF IMPORTER LICENSEES</u></b></p> <p><u>3.8.1 Each <i>market participant</i> for an <i>import registered facility</i> shall operate and maintain its facilities and equipment in a manner that is consistent with the <i>reliable</i> operation of the <i>PSO controlled system</i> and shall assist the <i>PSO</i> in the discharge of its responsibilities related to <i>reliability</i>. Such obligation shall include the following:</u></p> <p><u>3.8.1.1 arranging and providing controls, monitoring and secure communication systems to facilitate and carry out a manually initiated restoration process in order to assist the <i>PSO</i> in the management of a prolonged, major shortage of electrical <i>supply</i> or an extreme disruption to or emergency on the <i>PSO controlled system</i>;</u></p> <p><u>3.8.1.2 providing the <i>PSO</i>, in such form as may be agreed with the <i>PSO</i>, with functional descriptions, equipment ratings and operating restrictions for its equipment, as required by the <i>PSO</i> to <i>reliably</i> operate the <i>PSO controlled system</i>;</u></p> <p><u>3.8.1.3 promptly informing the <i>PSO</i> of any change or anticipated change in the status of its <i>import registered facility</i> in respect of which it is the <i>market participant</i> or any related equipment and that is under the <i>dispatch</i> control of the <i>PSO</i> as described in these <i>market rules</i>, or of any other change or anticipated change in its <i>import registered facility</i> or equipment that could have a material effect on the <i>reliability</i> of the <i>PSO controlled system</i>. Such change shall include any change in status that could affect the maximum output of an <i>import registered</i></u></p>	<p>To set out obligations applicable to importer licensees.</p>
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	<p><u>facility or the availability of the connecting interties;</u></p> <p><u>3.8.1.4 providing the PSO with current information showing its maximum import capabilities to facilitate dispatch when the PSO controlled system is in an emergency operating state. Such maximum import capabilities will relate to the physical ratings of the interties and shall not be limited to the capabilities implied by any offers submitted on behalf of its import registered facilities, or to standing capability data, pursuant to Chapter 6;</u></p> <p><u>3.8.1.5 promptly complying with the PSO's directions, including directions to disconnect equipment from the PSO controlled system for reliability purposes, unless the market participant reasonably believes that following the PSO's direction poses a real and substantial risk of substantial damage to its equipment, to the safety of its employees or the public, or of substantial damage to the environment. In all cases where the market participant does not intend to follow the PSO's directions for any such reasons, it shall promptly notify the PSO of this fact and shall nonetheless comply with the PSO's directions to the fullest extent possible without causing the harms described in this section 3.8.1.5;</u></p> <p><u>3.8.1.6 providing to the PSO within the time specified in the system operation manual, a report describing any modification proposed to be made to protection on a primary relay, and obtaining the approval of the PSO prior to implementing the proposed modification or, where the modification is effected on an unplanned, emergency basis, reporting the</u></p>	
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	<p><u>modification to the PSO as soon as practicable; and</u></p> <p><u>3.8.1.7 ensuring that the minimum quantity of energy as may be established by the Authority for each import registered facility must be scheduled in accordance with section 3.8.3, unless:</u></p> <p>a. <u>the import registered facility or any part of the interties connecting the import registered facility to the transmission system is on planned outage or forced outage; or</u></p> <p>b. <u>the import registered facility has been ordered, directed or instructed by the PSO to be scheduled at a different level.</u></p>	
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3.8.2 The *Authority* shall notify the *EMC* of the minimum scheduled quantity of energy for each *import registered facility* when such quantity is established by the *Authority*.

3.8.3 The scheduled quantity of *energy* for any *import registered facility* shall comply with the formula set out in section 3.8.4 for every hour. The *EMC* shall report any breach of the foregoing requirement to the *market surveillance and compliance panel* for investigation.

3.8.4 The formula referred to in section 3.8.3 above is as follows:

$$\frac{\sum_i^N \text{Scheduled Quantity } i}{N} \times 1 \text{ hour} \geq \text{Minimum Scheduled Quantity}$$

where:

<u>N</u>	≡	<u>the number of dispatch periods in an hour;</u>
<u>i</u>	≡	<u>a dispatch period in an hour;</u>
<u>Scheduled Quantity</u>	≡	<u>the scheduled quantity of energy (in MW) for a dispatch period, as scheduled in the real-time dispatch schedule if such real-time dispatch schedule is released to the dispatch coordinator of the import registered facility on time, in accordance with the market operations timetable, or, if such real-time dispatch schedule</u>



			<p><u>is not released on time as aforesaid, as scheduled in the short-term schedule that is issued as dispatch instructions for that dispatch period, and</u></p>	
		<p><u>Minimum Scheduled Quantity</u></p>	<p>≡</p> <p><u>the minimum scheduled quantity of energy (in MWh) in an hour for an import registered facility as notified by the Authority in accordance with section 3.8.2.</u></p>	
[New Section]		<p><u>3.8.5 Each market participant for an import registered facility shall carry out its obligations under this Chapter in accordance with all applicable reliability standards.</u></p>		To extend obligations to importer licensees.
<b>5 SYSTEM SECURITY</b>	<b>5 SYSTEM SECURITY</b>			
<p><b>5.2 SECURITY LIMITS</b></p> <p>5.2.4 The following shall be established by the <i>PSO</i> based on data submitted by the <i>transmission licensee</i> and by <i>generation licensees</i>:</p> <p>...</p>	<p><b>5.2 SECURITY LIMITS</b></p> <p>5.2.4 The following shall be established by the <i>PSO</i> based on data submitted by the <del><i>transmission licensee</i></del> and by <del><i>generation licensees</i></del> <u><i>market participants</i></u>:</p> <p>...</p>			To replace the reference to transmission licensee and generation licensee with reference to market participants so that

<p>5.2.5 To enable the <i>PSO</i> to establish the <i>security limits</i> and <i>equipment limits</i> referred to in section 5.2.3, the <i>transmission licensee</i> and each <i>generation licensee</i> shall ensure that the equipment that it owns or operates has established ratings and shall provide such ratings to the <i>PSO</i> in a form suitable for the dynamic calculation of ratings, including continuous and limited time ratings. The <i>PSO</i> shall not deliberately operate or plan to operate equipment comprising the <i>PSO controlled grid</i> or require the operation of any <i>generation facility</i>, in excess of the relevant <i>equipment limit</i> for such equipment.</p>	<p>5.2.5 To enable the <i>PSO</i> to establish the <i>security limits</i> and <i>equipment limits</i> referred to in section 5.2.3, <del>the <i>transmission licensee</i> and each <i>generation licensee</i></del> <u>each <i>market participant</i></u> shall ensure that the equipment that it owns or operates has established ratings and shall provide such ratings to the <i>PSO</i> in a form suitable for the dynamic calculation of ratings, including continuous and limited time ratings. The <i>PSO</i> shall not deliberately operate or plan to operate equipment comprising the <i>PSO controlled grid</i> or require the operation of any <i>generation facility</i>, in excess of the relevant <i>equipment limit</i> for such equipment.</p>	<p>the security limits and equipment limits can be established based on data submitted by all MPs including importer licensees and wholesale traders.</p>
<p><b>Explanatory Note: This information will be conveyed as part of facility registration.</b></p>	<p><b>Explanatory Note: This information will be conveyed as part of facility registration.</b></p>	
<p><b>6 FORECASTS AND ASSESSMENTS</b></p>	<p><b>6 FORECASTS AND ASSESSMENTS</b></p>	

<p><b>6.3</b>      <b><u>PURPOSE OF ASSESSMENTS</u></b></p> <p>6.3.1      The <i>PSO</i> shall conduct the monthly assessments referred to in section 6.2.1.1 to:</p> <p>6.3.1.1    provide forecasts of expected peak daily <i>loads, generation capacity</i> and transmission capacity, energy capability of <i>generation facilities</i>, and the possibility of occurrence of any <i>security</i>-related events on the <i>PSO controlled system</i> that could require contingency planning by <i>market participants</i> or by the <i>PSO</i>; and</p> <p>6.3.1.2    allow the <i>PSO</i> to identify exigencies potentially impacting on the coordination of <i>outages</i> that could give rise to shortfalls in <i>generation capacity</i> and thus provide information by which <i>market participants</i> and the <i>PSO</i> could act to reschedule <i>outage</i> plans to avoid such projected shortfalls.</p>	<p><b>6.3</b>      <b><u>PURPOSE OF ASSESSMENTS</u></b></p> <p>6.3.1      The <i>PSO</i> shall conduct the monthly assessments referred to in section 6.2.1.1 to:</p> <p>6.3.1.1    provide forecasts of expected peak daily <i>loads, generation capacity, <u>import capacity</u></i> and transmission capacity, <del>energy capability of <i>generation facilities</i></del>, and the possibility of occurrence of any <i>security</i>-related events on the <i>PSO controlled system</i> that could require contingency planning by <i>market participants</i> or by the <i>PSO</i>; and</p> <p>6.3.1.2    allow the <i>PSO</i> to identify exigencies potentially impacting on the coordination of <i>outages</i> that could give rise to shortfalls in <i>generation capacity <u>and import capacity</u></i> and thus provide information by which <i>market participants</i> and the <i>PSO</i> could act to reschedule <i>outage</i> plans to avoid such projected shortfalls.</p>	<p>To extend the scope of forecasts to import capacity.</p>
<p>6.3.2      The <i>PSO</i> shall conduct the daily assessments referred to in section 6.2.1.2 to provide forecasts of expected half-hourly <i>loads, generation capacity</i> and transmission capacity, energy capability of <i>generation facilities</i>, exports and imports of <i>energy</i>, and of events that may affect the <i>security</i> of the <i>PSO controlled system</i> or affect operational decisions to be taken by the <i>PSO</i> that must be made more than a day in advance.</p>	<p>6.3.2      The <i>PSO</i> shall conduct the daily assessments referred to in section 6.2.1.2 to provide forecasts of expected half-hourly <i>loads, generation capacity, <u>import capacity</u></i> and transmission capacity, <del>energy capability of <i>generation facilities</i></del>, exports and imports of <i>energy</i>, and of events that may affect the <i>security</i> of the <i>PSO controlled system</i> or affect operational decisions to be taken by the <i>PSO</i> that must be made more than a day in advance.</p>	<p>To extend the scope of forecasts to import capacity.</p>
<p><b>7</b>            <b>OUTAGE AND TESTING CO-ORDINATION</b></p>	<p><b>7</b>            <b>OUTAGE AND TESTING CO-ORDINATION</b></p>	

<p><b>7.1</b>     <b><u>INTRODUCTION</u></b></p> <p>7.1.4     The <i>PSO</i> shall develop and <i>publish</i> a full description of the equipment and facilities the <i>outage</i> of which must be reported to and scheduled with the <i>PSO</i> in accordance with this section 7. Such equipment and facilities shall include the following:</p> <p>7.1.4.1   facilities and equipment forming part of the <i>PSO controlled grid</i>;</p> <p>7.1.4.2   subject to section 7.1.6, <i>generation registered facilities</i> and auxiliary equipment <i>connected</i> to the <i>PSO controlled grid</i>;</p> <p>7.1.4.3   protective relaying; and</p> <p>7.1.4.4   communication equipment required for the <i>PSO</i> to communicate with the operators of <i>registered facilities</i>.</p>	<p><b>7.1</b>     <b><u>INTRODUCTION</u></b></p> <p>7.1.4     The <i>PSO</i> shall develop and <i>publish</i> a full description of the equipment and facilities the <i>outage</i> of which must be reported to and scheduled with the <i>PSO</i> in accordance with this section 7. Such equipment and facilities shall include the following:</p> <p>7.1.4.1   facilities and equipment forming part of the <i>PSO controlled grid</i>;</p> <p>7.1.4.2   subject to section 7.1.6, <i>generation registered facilities</i>, <u><i>import registered facilities</i></u> and auxiliary equipment <i>connected</i> to the <i>PSO controlled grid</i>;</p> <p>7.1.4.3   protective relaying; and</p> <p>7.1.4.4   communication equipment required for the <i>PSO</i> to communicate with the operators of <i>registered facilities</i>.</p>	<p>To extend the scope of outage report to import registered facilities.</p>
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<p><b>7.7</b>     <b><u>COMPENSATION</u></b></p> <p>7.7.2     The <i>market participant</i> for a <i>generation facility</i> in respect of which an <i>outage</i> is cancelled, deferred or recalled by the <i>PSO</i> shall be entitled to compensation for direct expenses incurred as a result of such cancellation, deferral or recall if:</p> <p>7.7.2.1   the <i>outage</i> had originally received <i>planning approval</i> or <i>final approval</i> by the <i>PSO</i>;</p> <p>7.7.2.2   the <i>outage</i> was cancelled, deferred or recalled by reason of a material error in the <i>PSO's</i> demand forecast, a failure of <i>generation facilities</i> within the <i>PSO controlled system</i>, a failure of facilities forming part of the <i>PSO controlled grid</i> or a failure of <i>intertie</i> facilities;</p> <p>7.7.2.3   the direct expenses were identified to the <i>PSO</i> in accordance with section C.2 of Appendix 5C; and</p> <p>7.7.2.4   the direct expenses exceed \$10,000.00.</p> <p>7.7.4     Except as otherwise provided in section 7.7.2, the <i>market participant</i> for a <i>generation facility</i> in respect of which an <i>outage</i> is cancelled, deferred or recalled by the <i>PSO</i> shall not be entitled to compensation for any costs, expenses, losses or damage incurred as a result of such cancellation, deferral or recall.</p> <p>7.7.5     Notwithstanding section 13 of Chapter 1, a <i>market participant</i> for a <i>generation facility</i> shall not be entitled to compensation for any costs, expenses, losses or damage associated with or incurred in respect of the rejection of an <i>outage</i> of that <i>generation facility</i> by the <i>PSO</i> pursuant to section 7.2.12 or 7.2.14.</p>	<p><b>7.7</b>     <b><u>COMPENSATION</u></b></p> <p>7.7.2     The <i>market participant</i> for a <i>generation facility</i> <u>or an import registered facility</u> in respect of which an <i>outage</i> is cancelled, deferred or recalled by the <i>PSO</i> shall be entitled to compensation for direct expenses incurred as a result of such cancellation, deferral or recall if:</p> <p>7.7.2.1   the <i>outage</i> had originally received <i>planning approval</i> or <i>final approval</i> by the <i>PSO</i>;</p> <p>7.7.2.2   the <i>outage</i> was cancelled, deferred or recalled by reason of a material error in the <i>PSO's</i> demand forecast, a failure of <i>generation facilities</i> within the <i>PSO controlled system</i>, a failure of facilities forming part of the <i>PSO controlled grid</i> or a failure of <i>intertie</i> facilities;</p> <p>7.7.2.3   the direct expenses were identified to the <i>PSO</i> in accordance with section C.2 of Appendix 5C; and</p> <p>7.7.2.4   the direct expenses exceed \$10,000.00.</p> <p>7.7.4     Except as otherwise provided in section 7.7.2, the <i>market participant</i> for a <i>generation facility</i> <u>or an import registered facility</u> in respect of which an <i>outage</i> is cancelled, deferred or recalled by the <i>PSO</i> shall not be entitled to compensation for any costs, expenses, losses or damage incurred as a result of such cancellation, deferral or recall.</p> <p>7.7.5     Notwithstanding section 13 of Chapter 1, a <i>market participant</i> for a <i>generation facility</i> <u>or an import registered facility</u> shall not be entitled to compensation for any costs, expenses, losses or damage associated with or incurred in respect of the rejection of an <i>outage</i></p>	<p>To extend the compensation provision to import registered facilities.</p>
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		of that <i>generation facility</i> or <i>import registered facility</i> by the PSO pursuant to section 7.2.12 or 7.2.14.	
<p><b>9.2</b>     <u><b>DISPATCH OF ENERGY</b></u></p> <p>9.2.1     The <i>dispatch instructions</i> for <i>energy</i> issued to each applicable <i>dispatch coordinator</i> for or within a given <i>dispatch period</i> shall indicate, as the case may be:</p> <p>9.2.1.1   the instantaneous rate, in MW, at which <i>energy</i> is to be injected onto the <i>transmission system</i> by a <i>generation registered facility</i> at the end of the <i>dispatch period</i>;</p>	<p><b>9.2</b>     <u><b>DISPATCH OF ENERGY</b></u></p> <p>9.2.1     The <i>dispatch instructions</i> for <i>energy</i> issued to each applicable <i>dispatch coordinator</i> for or within a given <i>dispatch period</i> shall indicate, as the case may be:</p> <p>9.2.1.1   the instantaneous rate, in MW, at which <i>energy</i> is to be injected onto the <i>transmission system</i> by a <i>generation registered facility</i> or <i>import registered facility</i> at the end of the <i>dispatch period</i>;</p>		To extend to import registered facilities.
<p><b>9.9</b>     <u><b>PSO OBLIGATIONS AFTER THE DISPATCH PERIOD</b></u></p> <p>9.9.1     The PSO shall, in respect of real-time operations, maintain a record, in sufficient detail to allow review by the <i>market surveillance and compliance panel</i>, of any situations with respect to one or more <i>market participants</i>, or to the <i>PSO controlled system</i> as a whole, in which:</p> <p>...</p> <p>9.9.1.4   it imposed a <i>generation fixing constraint</i> on the output level of a <i>generation registered facility</i>, and shall communicate such information to the <i>EMC</i>.</p>	<p><b>9.9</b>     <u><b>PSO OBLIGATIONS AFTER THE DISPATCH PERIOD</b></u></p> <p>9.9.1     The PSO shall, in respect of real-time operations, maintain a record, in sufficient detail to allow review by the <i>market surveillance and compliance panel</i>, of any situations with respect to one or more <i>market participants</i>, or to the <i>PSO controlled system</i> as a whole, in which:</p> <p>...</p> <p>9.9.1.4   it imposed a <i>generation fixing constraint</i> on the output level of a <i>generation registered facility</i> or <i>import registered facility</i>, and shall communicate such information to the <i>EMC</i>.</p>		To extend the generation fixing constraints to import registered facilities.
<p><b>10</b>     <u><b>DEMAND CONTROL</b></u></p>	<p><b>10</b>     <u><b>DEMAND CONTROL</b></u></p>		

<p><b>10.1</b>    <b><u>INTRODUCTION</u></b></p> <p>10.1.1 This section 10 applies in situations on the <i>PSO controlled system</i> where there is insufficient <i>generation capacity</i> available from <i>generation facilities</i> to satisfy expected demand, where operating problems (such as frequency, voltage levels or thermal over-loads) exist which affect the ability to serve <i>load</i>, or where there is a breakdown on any part of the <i>PSO controlled system</i>. This section 10 identifies actions that the <i>PSO</i> may take or may direct <i>market participants</i> to take to assist in achieving reductions in demand to either avoid or alleviate such situations.</p>	<p><b>10.1</b>    <b><u>INTRODUCTION</u></b></p> <p>10.1.1 This section 10 applies in situations on the <i>PSO controlled system</i> where there is insufficient <i>generation capacity and import capacity</i> available from <i>generation facilities and import registered facilities</i> to satisfy expected demand, where operating problems (such as frequency, voltage levels or thermal over-loads) exist which affect the ability to serve <i>load</i>, or where there is a breakdown on any part of the <i>PSO controlled system</i>. This section 10 identifies actions that the <i>PSO</i> may take or may direct <i>market participants</i> to take to assist in achieving reductions in demand to either avoid or alleviate such situations.</p>	<p>To extend to import registered facilities.</p>
<p><b>10.4</b>    <b><u>GENERATOR OBLIGATIONS DURING ABNORMAL FREQUENCY</u></b></p> <p>10.4.1 Abnormal frequency conditions on the <i>PSO controlled system</i> may require immediate actions by <i>market participants</i> for <i>generation facilities</i> to restore the frequency to an acceptable level. The abnormal frequency conditions to which this section 10.4 applies and the actions that may be required of <i>generation facilities</i> under such conditions shall be defined by the <i>PSO</i> and included in the <i>system operation manual</i>. A <i>market participant</i> for a <i>generation facility</i> that takes action in response to an abnormal frequency excursion may make a request to the <i>PSO</i> for compensation in accordance with the procedure set forth in section 3.11 of Chapter 3.</p>	<p><b>10.4</b>    <b><u>GENERATOR AND IMPORTER OBLIGATIONS DURING ABNORMAL FREQUENCY</u></b></p> <p>10.4.1 Abnormal frequency conditions on the <i>PSO controlled system</i> may require immediate actions by <i>market participants</i> for <i>generation facilities or import registered facilities</i> to restore the frequency to an acceptable level. The abnormal frequency conditions to which this section 10.4 applies and the actions that may be required of <i>market participants for generation facilities or import registered facilities</i> under such conditions shall be defined by the <i>PSO</i> and included in the <i>system operation manual</i>. A <i>market participant</i> for a <i>generation facility and import registered facility</i> that takes action in response to an abnormal frequency excursion may make a request to the <i>PSO</i> for compensation in accordance with the procedure set forth in section 3.11 of Chapter 3.</p>	<p>To extend the obligation to respond to abnormal frequency condition to import registered facilities.</p>
<p><b>12</b>      <b>EMERGENCY PREPAREDNESS AND SYSTEM RESTORATION</b></p>	<p><b>12</b>      <b>EMERGENCY PREPAREDNESS AND SYSTEM RESTORATION</b></p>	

<p><b>12.5 EMERGENCY FACILITIES</b></p> <p>12.5.3 During the interval between the evacuation of the <i>PSO</i>'s principal control centre and the establishment of a backup control centre:</p> <p>12.5.3.1 the <i>PSO</i> shall designate an interim emergency system coordinator to act in its stead, as required; and</p> <p>12.5.3.2 the <i>transmission licensee</i> and all <i>generation licensees</i> shall manage their facilities and support the interim emergency system coordinator in the operation of the <i>PSO controlled system</i>.</p>	<p><b>12.5 EMERGENCY FACILITIES</b></p> <p>12.5.3 During the interval between the evacuation of the <i>PSO</i>'s principal control centre and the establishment of a backup control centre:</p> <p>12.5.3.1 the <i>PSO</i> shall designate an interim emergency system coordinator to act in its stead, as required; and</p> <p>12.5.3.2 the <i>transmission licensee</i>, and all <i>generation licensees and importer licensees</i> shall manage their facilities and support the interim emergency system coordinator in the operation of the <i>PSO controlled system</i>.</p>	<p>To extend the obligation to respond to emergency to importer licensees.</p>
<p><b>CHAPTER 5 APPENDIX C – OUTAGE SCHEDULING INFORMATION</b></p>	<p><b>CHAPTER 5 APPENDIX C – OUTAGE SCHEDULING INFORMATION</b></p>	
<p><b><u>C.1 CONTENT OF ASSESSMENT REPORTS</u></b></p> <p>C.1.1 In each of the 12-Month Assessment Reports and Daily Assessment Reports referred to in sections 6.6.2 and 6.6.3 of this Chapter, respectively, the <i>PSO</i> shall include the following information for the period covered by each such Report:</p> <p>...</p> <p>C.1.1.4 a forecast of excess output from <i>generation facilities</i> (quantities and periods);</p> <p>C.1.1.5 a forecast of a deficit in the output from <i>generation facilities</i> (quantities and periods);</p>	<p><b><u>C.1 CONTENT OF ASSESSMENT REPORTS</u></b></p> <p>C.1.1 In each of the 12-Month Assessment Reports and Daily Assessment Reports referred to in sections 6.6.2 and 6.6.3 of this Chapter, respectively, the <i>PSO</i> shall include the following information for the period covered by each such Report:</p> <p>...</p> <p>C.1.1.4 a forecast of excess output from <i>generation facilities and import registered facilities (in each case, quantities and periods)</i>;</p> <p>C.1.1.5 a forecast of a deficit in the output from <i>generation facilities and import registered facilities (in each case, quantities and periods)</i>;</p>	<p>To extend the scope of assessment report to import registered facilities.</p>



<p><b>C.2 OUTAGE SUBMISSION INFORMATION REQUIRED BY THE PSO</b></p> <p>C.2.1 The following information shall be provided to the <i>PSO</i> by each <i>market participant</i> for each <i>planned outage</i> or <i>forced outage</i> as required by section 7.2.4, 7.2.8, 7.2.14 or 7.3.8, as the case may be, of this Chapter:</p> <p>...</p> <p>C.2.1.11 in the case of a <i>planned outage</i> of a <i>generation facility</i> or equipment, the estimated direct expenses to be incurred by the <i>market participant</i>.</p>	<p><b>C.2 OUTAGE SUBMISSION INFORMATION REQUIRED BY THE PSO</b></p> <p>C.2.1 The following information shall be provided to the <i>PSO</i> by each <i>market participant</i> for each <i>planned outage</i> or <i>forced outage</i> as required by section 7.2.4, 7.2.8, 7.2.14 or 7.3.8, as the case may be, of this Chapter:</p> <p>...</p> <p>C.2.1.11 in the case of a <i>planned outage</i> of a <i>generation facility</i>, <u><i>an import registered facility</i></u> or equipment, the estimated direct expenses to be incurred by the <i>market participant</i>.</p>	<p>To extend the scope of outage submission information to import registered facilities.</p>
<p><b>CHAPTER 6 – MARKET OPERATION</b></p>	<p><b>CHAPTER 6 – MARKET OPERATION</b></p>	
<p><b>3 EMC RESPONSIBILITIES</b></p>	<p><b>3 EMC RESPONSIBILITIES</b></p>	
<p><b>3.1 MARKET NETWORK NODES</b></p> <p>3.1.3 The <i>EMC</i> shall:</p> <p>3.1.3.1 establish the necessary parameters for relating <i>dispatch network nodes</i> and <i>market network nodes</i> to all <i>generation registered facilities</i> and <i>generation settlement facilities</i> in accordance with section D.7 of Appendix 6D;</p>	<p><b>3.1 MARKET NETWORK NODES</b></p> <p>3.1.3 The <i>EMC</i> shall:</p> <p>3.1.3.1 establish the necessary parameters for relating <i>dispatch network nodes</i> and <i>market network nodes</i> to all <i>generation registered facilities</i>, <u><i>import registered facilities</i></u> and <i>generation settlement facilities</i> in accordance with section D.7 of Appendix 6D;</p>	<p>To include the obligation for EMC to include import registered facility in the market network nodes.</p>
<p><b>5 OFFERS AND BIDS</b></p>	<p><b>5 OFFERS AND BIDS</b></p>	

<p><b>5.1</b>     <u><b>OBLIGATION TO HAVE OFFERS</b></u></p> <p>5.1.1    Each <i>generation registered facility</i> shall at all times have a valid <i>standing offer for energy</i> for each <i>dispatch period</i> of each day of the week.</p>	<p><b>5.1</b>     <u><b>OBLIGATION TO HAVE OFFERS</b></u></p> <p>5.1.1    Each <i>generation registered facility</i> <u>and <i>import registered facility</i></u> shall at all times have a valid <i>standing offer for energy</i> for each <i>dispatch period</i> of each day of the week.</p>	<p>To extend the obligation of offer submission to import registered facilities.</p>
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<p><b>5.2 FORM OF ENERGY OFFERS</b></p> <p>5.2.1 Each <i>energy offer</i> is an <i>offer</i> to provide <i>energy</i> to the relevant <i>real-time market</i> by a <i>generation registered facility</i> at its <i>market network node</i> in a <i>dispatch period</i>.</p> <p>5.2.2 Each <i>energy offer</i> shall state:</p> <p>5.2.2.1 the identity of the <i>generation registered facility</i> that the <i>energy offer</i> is for;</p> <p>...</p> <p>5.2.2.5 the maximum combined capacity of the <i>generation registered facility</i> for <i>energy</i>, <i>reserve</i> and <i>regulation</i> for the <i>dispatch period</i>; and</p>	<p><b>5.2 FORM OF ENERGY OFFERS</b></p> <p>5.2.1 Each <i>energy offer</i> is an <i>offer</i> to provide <i>energy</i> to the relevant <i>real-time market</i> by a <i>generation registered facility</i> <u>or an import registered facility</u> at its <i>market network node</i> in a <i>dispatch period</i>.</p> <p>5.2.2 Each <i>energy offer</i> shall state:</p> <p>5.2.2.1 the identity of the <i>generation registered facility</i> <u>or import registered facility</u> that the <i>energy offer</i> is for;</p> <p>...</p> <p>5.2.2.5 the maximum combined capacity of the <i>generation registered facility</i> <u>or import registered facility</u> for <i>energy</i>, <i>reserve</i> and <i>regulation</i> for the <i>dispatch period</i>; and</p>	<p>Consequent changes to reflect that energy offer can be submitted for an import registered facility.</p>
<p><b>Explanatory Note: Under normal circumstances, the maximum combined capacity under section 5.2.2.5 could be stated as at least equal to the highest maximum combined generation capacity and reserve capacity for any reserve class, indicated in that generation facility’s standing capability data under section E.1.1.6 of Appendix 6E. (In such situations, the limits in the standing capability data will apply through sections D.9A.7.1 and D.9A.8.1 of Appendix 6D.)</b></p> <p>If the market participant wishes to temporarily de-rate its generation facility for maintenance or other purposes, the maximum combined capacity under section 5.2.2.5 could be stated at a lower level. (In such situations, the stated maximum combined capacity will apply through sections D.9A.7.2 and D.9A.8.2 of Appendix 6D.)</p>	<p><b>Explanatory Note: Under normal circumstances, the maximum combined capacity <u>of a generation facility</u> under section 5.2.2.5 could be stated as at least equal to the highest maximum combined generation capacity and reserve capacity for any reserve class, indicated in that generation facility’s standing capability data under section E.1.1.6 of Appendix 6E. (In such situations, the limits in the standing capability data will apply through sections D.9A.7.1 and D.9A.8.1 of Appendix 6D.)</b></p> <p>If the market participant <u>for a generation registered facility</u> wishes to temporarily de-rate its generation facility for maintenance or other purposes, the maximum combined capacity under section 5.2.2.5 could be stated at a lower level. (In such situations, the stated maximum combined capacity will apply through sections D.9A.7.2 and D.9A.8.2 of Appendix 6D.)</p>	
<p>5.2.2.6 the <i>energy</i> ramp-up rate and the <i>energy</i> ramp-down rate, which respectively imply the allowable increase and decrease in the output</p>		

<p>of the <i>generation registered facility</i> during the <i>dispatch period</i>.</p> <p>5.2.3 The <i>generation registered facility</i> that the <i>energy offer</i> is for must be <i>registered</i> to provide <i>energy</i>.</p> <p>...</p> <p>5.2.7 The total of the quantities in all the <i>price-quantity pairs</i> of an <i>energy offer</i> for a <i>dispatch period</i> shall not exceed:</p> <p>5.2.7.1 the maximum <i>generation capacity</i>, indicated in the relevant <i>generation registered facility's standing capability data</i> for that <i>dispatch period</i>;</p> <p>5.2.7.2 the maximum quantity of <i>energy</i> that can be supplied in that <i>dispatch period</i> by that <i>generation registered facility</i>, as reasonably estimated by its <i>dispatch coordinator</i>; or</p> <p>5.2.7.3 the maximum combined capacity of that <i>generation registered facility</i> for <i>energy</i>, <i>reserve</i> and <i>regulation</i> stated in the <i>energy offer</i> under section 5.2.2.5.</p> <p>5.2.8 The maximum combined capacity of the <i>generation registered facility</i> for <i>energy</i>, <i>reserve</i> and <i>regulation</i> stated in an <i>energy offer</i> under section 5.2.2.5 shall be expressed in MW to one decimal place and not be less than 0.0 MW.</p> <p>5.2.9 The <i>energy</i> ramp-up rate and the <i>energy</i> ramp-down rate stated in an <i>energy offer</i> shall each:</p> <p>...</p>	<p>5.2.2.6 the <i>energy</i> ramp-up rate and the <i>energy</i> ramp-down rate, which respectively imply the allowable increase and decrease in the output of the <i>generation registered facility</i> <u>or</u> <i>import registered facility</i> during the <i>dispatch period</i>.</p> <p>5.2.3 The <i>generation registered facility</i> <u>or</u> <i>import registered facility</i> that the <i>energy offer</i> is for must be <i>registered</i> to provide <i>energy</i>.</p> <p>...</p> <p>5.2.7 The total of the quantities in all the <i>price-quantity pairs</i> of an <i>energy offer</i> for a <i>dispatch period</i> shall not exceed:</p> <p>5.2.7.1 the maximum <i>generation capacity</i> <u>or</u> <i>import capacity</i>, indicated in the relevant <i>generation registered facility's</i> <u>or</u> <i>import registered facility's standing capability data</i> for that <i>dispatch period</i>;</p> <p>5.2.7.2 the maximum quantity of <i>energy</i> that can be supplied in that <i>dispatch period</i> by that <i>generation registered facility</i> <u>or</u> <i>import registered facility</i>, as reasonably estimated by its <i>dispatch coordinator</i>; or</p> <p>5.2.7.3 the maximum combined capacity of that <i>generation registered facility</i> <u>or</u> <i>import registered facility</i> for <i>energy</i>, <i>reserve</i> and <i>regulation</i> stated in the <i>energy offer</i> under section 5.2.2.5.</p> <p>5.2.8 The maximum combined capacity of the <i>generation registered facility</i> <u>or</u> <i>import registered facility</i> for <i>energy</i>, <i>reserve</i> and <i>regulation</i> stated in an <i>energy offer</i> under section 5.2.2.5 shall be expressed in MW to one decimal place and not be less than 0.0 MW.</p>	
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<p>5.2.9.3 not exceed respectively the maximum ramp-up rate and maximum ramp-down rate indicated in the relevant <i>generation registered facility's standing capability data</i>.</p>	<p>5.2.9 The <i>energy</i> ramp-up rate and the <i>energy</i> ramp-down rate stated in an <i>energy offer</i> shall each:</p> <p>...</p> <p>5.2.9.3 not exceed respectively the maximum ramp-up rate and maximum ramp-down rate indicated in the relevant <i>generation registered facility's or import registered facility's standing capability data</i>.</p>	
<p><b>7 EMC RESPONSIBILITIES WITHIN THE MARKET OUTLOOK HORIZON</b></p>	<p><b>7 EMC RESPONSIBILITIES WITHIN THE MARKET OUTLOOK HORIZON</b></p>	
<p><b><u>7.5 INFORMATION USED IN EACH SCENARIO OR SCHEDULE</u></b></p> <p>7.5.1 The <i>EMC</i> shall use the most current valid information on the following to determine and revise each of the scenarios or schedules referred to in sections 7.3, 7.4 and 7.4A:</p> <p>7.5.1.5 the initial loading of each <i>generation facility</i>, determined:</p> <p>a. in the case of each <i>market outlook scenario</i>, on the basis of the end of the last <i>dispatch period</i> represented in the most recently <i>published pre-dispatch schedule</i> which was determined using the same <i>nodal load forecast</i> and that contains the applicable <i>dispatch period</i>; and</p> <p>b. in the case of each <i>pre-dispatch schedule</i>, on the basis of the later of the <i>real-time dispatch schedule</i> for the period after the current <i>dispatch period</i> (if available) and the <i>real-time dispatch schedule for the current dispatch period</i>;</p>	<p><b><u>7.5 INFORMATION USED IN EACH SCENARIO OR SCHEDULE</u></b></p> <p>7.5.1 The <i>EMC</i> shall use the most current valid information on the following to determine and revise each of the scenarios or schedules referred to in sections 7.3, 7.4 and 7.4A:</p> <p>7.5.1.5 the initial loading of each <i>generation facility and import registered facility</i>, determined:</p> <p>a. in the case of each <i>market outlook scenario</i>, on the basis of the end of the last <i>dispatch period</i> represented in the most recently <i>published pre-dispatch schedule</i> which was determined using the same <i>nodal load forecast</i> and that contains the applicable <i>dispatch period</i>; and</p> <p>b. in the case of each <i>pre-dispatch schedule</i>, on the basis of the later of the <i>real-time dispatch schedule</i> for the period after the current <i>dispatch period</i> (if available) and the <i>real-time dispatch schedule for the current dispatch period</i>;</p>	<p>To include the obligation for EMC to determine initial loading for import registered facilities.</p>

<p><b>7.6 SOLVING EACH SCENARIO OR SCHEDULE</b></p> <p>7.6.2 In determining the scenarios referred to in section 7.6.1, each <i>dispatch period</i> shall be assumed to be independent of the others except that:</p> <p>7.6.2.1 subject to section 7.6.2.2, the initial loading of each generation facility for each dispatch period shall be set equal to the value determined for the end of the preceding dispatch period for the relevant nodal load forecast; and</p> <p>7.6.2.2 the initial loading of each <i>generation facility</i> for the first <i>dispatch period</i> shall be set in accordance with section 7.5.1.5 for the relevant <i>nodal load forecast</i>.</p>	<p><b>7.6 SOLVING EACH SCENARIO OR SCHEDULE</b></p> <p>7.6.2 In determining the scenarios referred to in section 7.6.1, each <i>dispatch period</i> shall be assumed to be independent of the others except that:</p> <p>7.6.2.1 subject to section 7.6.2.2, the initial loading of each <i>generation facility and import registered facility</i> for each <i>dispatch period</i> shall be set equal to the value determined for the end of the preceding <i>dispatch period</i> for the relevant <i>nodal load forecast</i>; and</p> <p>7.6.2.2 the initial loading of each <i>generation facility and import registered facility</i> for the first <i>dispatch period</i> shall be set in accordance with section 7.5.1.5 for the relevant <i>nodal load forecast</i>.</p>	<p>Consequential amendment.</p>
<p><b>7.7 RELEASE OF SCENARIO INFORMATION</b></p> <p>7.7.3 In accordance with sections 7.7.1, 7.7.2 and 7.7.2A, the EMC shall <i>publish</i> the following information for each <i>dispatch period</i> and for each <i>market outlook scenario, pre-dispatch schedule</i> and <i>short-term schedule</i>:</p> <p>...</p> <p>7.7.3.5 projected <i>energy prices</i> associated with each <i>market network node</i> at which a <i>generation registered facility</i> or <i>generation settlement facility</i> is located, determined in accordance with sections D.24.1 and D.24.5 of Appendix 6D;</p>	<p><b>7.7 RELEASE OF SCENARIO INFORMATION</b></p> <p>7.7.3 In accordance with sections 7.7.1, 7.7.2 and 7.7.2A, the EMC shall <i>publish</i> the following information for each <i>dispatch period</i> and for each <i>market outlook scenario, pre-dispatch schedule</i> and <i>short-term schedule</i>:</p> <p>...</p> <p>7.7.3.5 projected <i>energy prices</i> associated with each <i>market network node</i> at which a <i>generation registered facility, import registered facility</i> or <i>generation settlement facility</i> is located, determined in accordance with sections D.24.1 and D.24.5 of Appendix 6D;</p>	<p>To include import registered facility in the scope of information release.</p>
<p><b>9 EMC RESPONSIBILITIES IN REAL TIME</b></p>	<p><b>9 EMC RESPONSIBILITIES IN REAL TIME</b></p>	

<p><b>9.2 THE REAL-TIME SCHEDULING PROCESS</b></p> <p>9.2.4 The <i>EMC</i> shall, in accordance with the <i>market operations timetable</i>, <i>publish</i> the following information as it pertains to each <i>dispatch period</i>:</p> <p>9.2.4.5 <i>energy</i> prices associated with each <i>market network node</i> at which a <i>generation registered facility</i> or <i>generation settlement facility</i> is located, determined in accordance with sections D.24.1 and D.24.5 of Appendix 6D;</p>	<p><b>9.2 THE REAL-TIME SCHEDULING PROCESS</b></p> <p>9.2.4 The <i>EMC</i> shall, in accordance with the <i>market operations timetable</i>, <i>publish</i> the following information as it pertains to each <i>dispatch period</i>:</p> <p>9.2.4.5 <i>energy</i> prices associated with each <i>market network node</i> at which a <i>generation registered facility</i>, <u><i>import registered facility</i></u> or <i>generation settlement facility</i> is located, determined in accordance with sections D.24.1 and D.24.5 of Appendix 6D;</p>	<p>To include import registered facility in the scope of information publication.</p>
<p><b>10 EMC RESPONSIBILITIES AFTER EACH DISPATCH PERIOD</b></p>	<p><b>10 EMC RESPONSIBILITIES AFTER EACH DISPATCH PERIOD</b></p>	
<p><b>10.3 DETERMINING SETTLEMENT QUANTITY DATA</b></p> <p>10.3.3 Where the <i>EMC</i> has issued a price revision <i>advisory notice</i> under section 9.3.2B for a <i>dispatch period</i> with no useable <i>real-time dispatch schedule</i> for <i>energy</i>, <i>reserve</i> and <i>regulation</i>, the <i>EMC</i> shall determine, for <i>settlement</i> purposes:</p> <p>10.3.3.1 the size of a <i>GRF</i> in section A.2.1.1 of Appendix 7A;</p>	<p><b>10.3 DETERMINING SETTLEMENT QUANTITY DATA</b></p> <p>10.3.3 Where the <i>EMC</i> has issued a price revision <i>advisory notice</i> under section 9.3.2B for a <i>dispatch period</i> with no useable <i>real-time dispatch schedule</i> for <i>energy</i>, <i>reserve</i> and <i>regulation</i>, the <i>EMC</i> shall determine, for <i>settlement</i> purposes:</p> <p>10.3.3.1 the size of a <i>GRF</i> <u>or <i>IRF</i></u> in section A.2.1.1 of Appendix 7A;</p>	<p>To include the obligation for EMC to determine the size of import registered facilities.</p>

<p><b>10.4 GATE CLOSURE</b></p> <p>10.4.1 Notwithstanding sections 5.1.5, 5.1.6 and 5.1.7, no <i>offer variation</i> or revised <i>standing offer</i> shall be submitted by or for a <i>market participant</i> within 65 minutes immediately prior to the <i>dispatch period</i> to which the <i>offer variation</i> or revised <i>standing offer</i> applies, except:</p> <p>10.4.1.1 where it is intended:</p> <ul style="list-style-type: none"> <li>a. for a <i>generation registered facility</i>, to reflect its expected ramp-up and ramp-down profiles during periods following <i>synchronisation</i> or preceding <i>desynchronisation</i>; or</li> <li>b. for a <i>generation registered facility</i>, to reflect its revised capability for the three consecutive <i>dispatch periods</i> immediately following a <i>forced outage</i> or its failure to <i>synchronise</i>; or</li> <li>c. to contribute positively to the resolution of an <i>energy surplus</i> situation pertaining to which the <i>EMC</i> has issued an <i>advisory notice</i> under section 9.3.1, by allowing for decreased supply of <i>energy</i>; or</li> <li>d. to contribute positively to the resolution of <i>energy, reserve or regulation</i> shortfall situations pertaining to which the <i>EMC</i> has issued <i>advisory notices</i> under section 9.3.1, by allowing for increased supply of <i>energy, reserve or regulation</i>; or</li> </ul>	<p><b>10.4 GATE CLOSURE</b></p> <p>10.4.1 Notwithstanding sections 5.1.5, 5.1.6 and 5.1.7, no <i>offer variation</i> or revised <i>standing offer</i> shall be submitted by or for a <i>market participant</i> within 65 minutes immediately prior to the <i>dispatch period</i> to which the <i>offer variation</i> or revised <i>standing offer</i> applies, except:</p> <p>10.4.1.1 where it is intended:</p> <ul style="list-style-type: none"> <li>a. for a <i>generation registered facility</i>, to reflect its expected ramp-up and ramp-down profiles during periods following <i>synchronisation</i> or preceding <i>desynchronisation</i>; or</li> <li>b. for a <i>generation registered facility</i>, to reflect its revised capability for the three consecutive <i>dispatch periods</i> immediately following a <i>forced outage</i> or its failure to <i>synchronise</i>; or</li> <li><del>c. for an <i>import registered facility</i>, to reflect its revised capability for the three consecutive <i>dispatch periods</i> immediately following a <i>forced outage</i> of the <i>interties</i> connecting the <i>import registered facility</i> to the <i>transmission system</i>; or</del></li> <li>ed._____to contribute positively to the resolution of an <i>energy surplus</i> situation pertaining to which the <i>EMC</i> has issued an <i>advisory notice</i> under section 9.3.1, by allowing for decreased supply of <i>energy</i>; or</li> </ul>	<p>To include gate closure exemption rules specific to import registered facilities.</p>
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<p>e. to contribute positively to the resolution of <i>energy, reserve or regulation</i> shortfall situations in that <i>dispatch period</i>, where:</p> <p>(i) the shortfall situations were indicated in a system status <i>advisory notice</i> issued by the <i>EMC</i> in respect of a <i>high-risk operating state</i> or <i>emergency operating state</i> declared by the <i>PSO</i>; and</p> <p>(ii) at the time of submission of such <i>offer variation</i> or revised <i>standing offer</i>, the <i>EMC</i> has not yet withdrawn, in respect of that <i>dispatch period</i>, such system status <i>advisory notice</i>,</p> <p>by allowing for increased supply of <i>energy, reserve or regulation</i>; and</p> <p>f. for a <i>load registered facility</i>, to reflect its revised capability during a <i>forced outage</i> or following a decrease in <i>energy</i> withdrawal under sections 9.3.3 and/or 9.3.4 of Chapter 5; and</p> <p>10.4.1.2 where the price so <i>offered</i>, other than for additional quantities of <i>energy, reserve or regulation</i>, is the same as that previously <i>offered</i> for that <i>dispatch period</i>.</p>	<p>de._____to contribute positively to the resolution of <i>energy, reserve or regulation</i> shortfall situations pertaining to which the <i>EMC</i> has issued <i>advisory notices</i> under section 9.3.1, by allowing for increased supply of <i>energy, reserve or regulation</i>; or</p> <p>ef._____to contribute positively to the resolution of <i>energy, reserve or regulation</i> shortfall situations in that <i>dispatch period</i>, where:</p> <p>(i) the shortfall situations were indicated in a system status <i>advisory notice</i> issued by the <i>EMC</i> in respect of a <i>high-risk operating state</i> or <i>emergency operating state</i> declared by the <i>PSO</i>; and</p> <p>(ii) at the time of submission of such <i>offer variation</i> or revised <i>standing offer</i>, the <i>EMC</i> has not yet withdrawn, in respect of that <i>dispatch period</i>, such system status <i>advisory notice</i>,</p> <p>by allowing for increased supply of <i>energy, reserve or regulation</i>; and</p> <p>fg._____for a <i>load registered facility</i>, to reflect its revised capability during a <i>forced outage</i> or following a decrease in <i>energy</i> withdrawal under sections 9.3.3 and/or 9.3.4 of Chapter 5; and</p>	
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	10.4.1.2 where the price so <i>offered</i> , other than for additional quantities of <i>energy</i> , <i>reserve</i> or <i>regulation</i> , is the same as that previously <i>offered</i> for that <i>dispatch period</i> .	
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<p><b>11.1 PUBLISHING SETTLEMENT QUANTITY DATA</b></p> <p>11.1.1 The <i>EMC</i> shall use <i>energy</i> quantities provided by the <i>market support services licensee</i> pursuant to section 2.2.3 of Chapter 7 to determine the <i>energy</i> quantities specified in sections 11.1.2 and 11.1.3.</p> <p>11.1.2 The <i>EMC</i> shall, on the tenth <i>business day</i> after each <i>trading day</i>, publish the following <i>energy</i> quantities for each <i>settlement interval</i> in that <i>trading day</i> for each type of <i>generation facility</i> referred to in section 5.6.2.5 of Chapter 2:</p> <p>11.1.2.1 Total gross injection <i>energy</i> quantity (in MWh) for each type of <i>generation facility</i>, being the quantity of <i>energy</i> determined as the sum of injection <i>energy</i> quantities of all <i>generation registered facilities</i> and <i>generation settlement facilities</i> of such type; and</p> <p>11.1.2.2 Total net injection <i>energy</i> quantity (in MWh) for each type of <i>generation facility</i>, being the quantity of <i>energy</i> determined as the sum of:</p> <p>(a) the sum of net injection <i>energy</i> quantities for every <i>EGF group</i> and its associated <i>load</i> which are associated with such type of <i>generation facility</i>, determined in accordance with section 11.1.3; and</p> <p>(b) the sum of injection <i>energy</i> quantity of all <i>generation registered facilities</i> and <i>generation settlement facilities</i> of such type, which are not assigned to any <i>EGF group</i>.</p>	<p><b>11.1 PUBLISHING SETTLEMENT QUANTITY DATA</b></p> <p>11.1.1 The <i>EMC</i> shall use <i>energy</i> quantities provided by the <i>market support services licensee</i> pursuant to section 2.2.3 of Chapter 7 <u>or determined by the <i>EMC</i> pursuant to section 2.2.2 of Chapter 7</u> to determine the <i>energy</i> quantities specified in sections 11.1.2 and 11.1.3.</p> <p>11.1.2 The <i>EMC</i> shall, on the tenth <i>business day</i> after each <i>trading day</i>, publish the following <i>energy</i> quantities for each <i>settlement interval</i> in that <i>trading day</i> for each type of <i>generation facility</i> referred to in section 5.6.2.5 of Chapter 2 <u>and <i>import registered facility</i> referred to in section 5.6.2A of Chapter 2:</u></p> <p>11.1.2.1 Total gross injection <i>energy</i> quantity (in MWh) for each type of <i>generation facility</i>, being the quantity of <i>energy</i> determined as the sum of injection <i>energy</i> quantities of all <i>generation registered facilities</i> and <i>generation settlement facilities</i> of such type; <del>and</del></p> <p><u>11.1.2.1A Total gross injection <i>energy</i> quantity and net injection <i>energy</i> quantity (in MWh) for <i>import registered facilities</i>, being the quantity of <i>energy</i> determined as the sum of injection <i>energy</i> quantities of all <i>import registered facilities</i>; and</u></p> <p>11.1.2.2 Total net injection <i>energy</i> quantity (in MWh) for each type of <i>generation facility</i>, being the quantity of <i>energy</i> determined as the sum of:</p> <p>(a) the sum of net injection <i>energy</i> quantities for every <i>EGF group</i> and its associated <i>load</i> which are associated with such type of</p>	<p>To extend the scope of publication of settlement quantity data to import registered facilities.</p>
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	<p><i>generation facility</i>, determined in accordance with section 11.1.3; and</p> <p>(b) the sum of injection <i>energy</i> quantity of all <i>generation registered facilities</i> and <i>generation settlement facilities</i> of such type, which are not assigned to any <i>EGF group</i>.</p>	
<b>CHAPTER 6 APPENDIX C - OUTPUT DATA FROM THE MARKET CLEARING ENGINE</b>	<b>CHAPTER 6 APPENDIX C - OUTPUT DATA FROM THE MARKET CLEARING ENGINE</b>	
<p><b>C.4 <u>ADDITIONAL DATA</u></b></p> <p>C.4.1 The <i>market clearing engine</i> shall, at a minimum, produce the following information for each <i>dispatch period</i>:</p> <p>C.4.1.1 the total <i>load</i> scheduled to be supplied at each <i>dispatch network node</i> and in aggregate, expressed in MW;</p> <p>C.4.1.2 the total generation scheduled at each <i>generation registered facility</i> and in aggregate, expressed in MW;</p>	<p><b>C.4 <u>ADDITIONAL DATA</u></b></p> <p>C.4.1 The <i>market clearing engine</i> shall, at a minimum, produce the following information for each <i>dispatch period</i>:</p> <p>C.4.1.1 the total <i>load</i> scheduled to be supplied at each <i>dispatch network node</i> and in aggregate, expressed in MW;</p> <p>C.4.1.2 <u>the aggregate of the total generation scheduled at each <i>generation registered facility</i> and total <i>import</i> scheduled for each <i>import registered facility</i> and in aggregate,</u> expressed in MW;</p>	To extend the scope of MCE output data to import registered facilities.
<b>CHAPTER 6 APPENDIX D – MARKET CLEARING FORMULATION</b>	<b>CHAPTER 6 APPENDIX D – MARKET CLEARING FORMULATION</b>	

<p><b>SECTION A: DEFINITIONS</b></p> <p><b>D.1 <u>INTERPRETATION</u></b></p> <p>D.1.1 In this appendix:</p> <p>D.1.1.1 sets shall be identified by being expressed in CAPITAL letters;</p> <p>D.1.1.2 variables in the linear program shall be identified by being expressed in Arial font text;</p> <p>D.1.1.3 parameters set outside of the linear program shall be identified by being expressed in ordinary text;</p> <p>D.1.1.4 indices or members of sets shall be identified by being expressed in lower case letters in <i>italicised</i> text;</p> <p>D.1.1.5 a reference to “generation” shall be a reference to the output of a <i>generation registered facility</i>; and</p> <p>D.1.1.6 unless a contrary intention appears, all sets, parameters, variables and functions are defined in relation to the single <i>dispatch period</i> for which the <i>market clearing engine</i> is being solved.</p>	<p><b>SECTION A: DEFINITIONS</b></p> <p><b>D.1 <u>INTERPRETATION</u></b></p> <p>D.1.1 In this appendix:</p> <p>D.1.1.1 sets shall be identified by being expressed in CAPITAL letters;</p> <p>D.1.1.2 variables in the linear program shall be identified by being expressed in Arial font text;</p> <p>D.1.1.3 parameters set outside of the linear program shall be identified by being expressed in ordinary text;</p> <p>D.1.1.4 indices or members of sets shall be identified by being expressed in lower case letters in <i>italicised</i> text;</p> <p><u>D.1.1.4A a reference to <i>generation registered facility</i> shall include a reference to <i>import registered facility</i>;</u></p> <p>D.1.1.5 a reference to “generation” shall be a reference to the output of a <i>generation registered facility</i>; and</p> <p>D.1.1.6 unless a contrary intention appears, all sets, parameters, variables and functions are defined in relation to the single <i>dispatch period</i> for which the <i>market clearing engine</i> is being solved.</p>	<p>To stipulate that the treatment of import registered facility in the market clearing formulation shall be the same as generation registered facility.</p>
<p><b>CHAPTER 6 APPENDIX E – STANDING CAPABILITY DATA</b></p>	<p><b>CHAPTER 6 APPENDIX E – STANDING CAPABILITY DATA</b></p>	

<p><b>E.1 GENERATION FACILITY DATA</b></p> <p>E.1.1 The <i>standing capability data</i> pertaining to a <i>generation facility</i> shall include:</p> <p>E.1.1.1 information sufficient to indicate the <i>generation facility</i> to which the <i>standing capability data</i> pertains;</p> <p>E.1.1.2 the maximum <i>generation capacity</i>, in MW, of the <i>generation facility</i>;</p> <p>E.1.1.3 the maximum ramp-up rate for the <i>generation facility</i> in MW/minute;</p> <p>E.1.1.4 the maximum ramp-down rate for the <i>generation facility</i> in MW/minute;</p> <p>E.1.1.5 the maximum <i>reserve capacity</i> of the <i>generation facility</i> for each <i>reserve class</i> which the <i>generation facility</i> is or seeks to be registered to provide;</p> <p>E.1.1.6 the maximum combined <i>generation capacity</i> and <i>reserve capacity</i> for each <i>reserve class</i> for which the <i>generation facility</i> is or seeks to be registered to provide;</p>	<p><b>E.1 GENERATION FACILITY AND IMPORT REGISTERED FACILITY DATA</b></p> <p>E.1.1 The <i>standing capability data</i> pertaining to a <i>generation facility</i> or a <del>facility, installation and/or apparatus to be registered as an</del> <i>import registered facility</i>, shall include:</p> <p>E.1.1.1 information sufficient to indicate the <i>generation facility</i> <u>or import registered facility</u> to which the <i>standing capability data</i> pertains;</p> <p><del>E.1.1.2 the maximum generation capacity, in MW, of the generation facility;</del></p> <p><u>E.1.1.2 the maximum generation capacity of the generation facility or the maximum import capacity of the import registered facility in MW;</u></p> <p>E.1.1.3 the maximum ramp-up rate for the <i>generation facility</i> <u>or import registered facility</u> in MW/minute;</p> <p>E.1.1.4 the maximum ramp-down rate for the <i>generation facility</i> <u>or import registered facility</u> in MW/minute;</p> <p>E.1.1.5 <u>in the case of a generation facility,</u> the maximum <i>reserve capacity</i> of the <i>generation facility</i> for each <i>reserve class</i> which the <i>generation facility</i> is or seeks to be registered to provide;</p> <p>E.1.1.6 <u>in the case of a generation facility,</u> the maximum combined <i>generation capacity</i> and <i>reserve capacity</i> for each <i>reserve class</i> for which the <i>generation facility</i> is or seeks to be registered to provide;</p>	<p>To extend the scope of standing capability data to import registered facilities and any facility, installation and/or apparatus to be registered as an import registered facility.</p>
<p><b>Explanatory Note – The previous clause allows the market participant to specify a capacity limit for the purpose of providing reserve which exceeds the facilities normal, sustainable, capacity.</b></p>		
<p>E.1.1.7 if the <i>generation facility</i> is or seeks to be registered to provide any <i>reserve class</i>, the <i>reserve proportion</i>, which constrains the maximum <i>reserve</i> that may be scheduled from the <i>generation registered facility</i> to the</p>		

<p>specified ratio of <i>energy</i> scheduled for the <i>generation registered facility</i>. The <i>reserve</i> proportion should be specified to minimise the likelihood of the <i>generation registered facility</i> being scheduled to provide <i>reserve</i> in excess of what can reliably be provided at any given level of scheduled <i>energy</i>;</p> <p>E.1.1.8 the maximum <i>regulation</i> capacity of the <i>generation facility</i> if the <i>generation facility</i> is or seeks to be registered to provide <i>regulation</i>;</p> <p>E.1.1.9 the maximum <i>energy</i> output at which <i>automatic generator control (AGC)</i> or other signals acceptable to the <i>PSO</i> can operate the <i>generation facility</i> to provide <i>regulation</i> capability if the <i>generation facility</i> is or seeks to be registered to provide <i>regulation</i>;</p> <p>E.1.1.10 the minimum <i>energy</i> output at which <i>automatic generator control (AGC)</i> or other signals acceptable to the <i>PSO</i> can operate the <i>generation facility</i> to provide <i>regulation</i> capability if the <i>generation facility</i> is or seeks to be registered to provide <i>regulation</i>;</p> <p>E.1.1.11 the time delay in seconds before the <i>generation facility</i> begins to respond following the standard <i>contingency event</i> specified in the <i>system operation manual</i>;</p> <p>E.1.1.12 the lowest <i>energy</i> output level that the <i>generation facility</i> is capable of providing <i>reserve</i> for all <i>reserve classes</i>;</p> <p>E.1.1.13 the <i>reserve</i> capacity of the <i>generation facility</i> at low, medium and high <i>energy</i> output levels for each <i>reserve class</i> which the <i>generation</i></p>	<p><b>Explanatory Note – The previous clause allows the market participant to specify a capacity limit for the purpose of providing reserve which exceeds the facilities normal, sustainable, capacity.</b></p> <p>E.1.1.7 if the <i>generation facility</i> is or seeks to be registered to provide any <i>reserve</i> class, the <i>reserve</i> proportion, which constrains the maximum <i>reserve</i> that may be scheduled from the <i>generation registered facility</i> to the specified ratio of <i>energy</i> scheduled for the <i>generation registered facility</i>. The <i>reserve</i> proportion should be specified to minimise the likelihood of the <i>generation registered facility</i> being scheduled to provide <i>reserve</i> in excess of what can reliably be provided at any given level of scheduled <i>energy</i>;</p> <p>E.1.1.8 maximum <i>regulation</i> capacity of the <i>generation facility</i> if the <i>generation facility</i> is or seeks to be registered to provide <i>regulation</i>;</p> <p>E.1.1.9 the maximum <i>energy</i> output at which <i>automatic generator control (AGC)</i> or other signals acceptable to the <i>PSO</i> can operate the <i>generation facility</i> to provide <i>regulation</i> capability if the <i>generation facility</i> is or seeks to be registered to provide <i>regulation</i>;</p> <p>E.1.1.10 the minimum <i>energy</i> output at which <i>automatic generator control (AGC)</i> or other signals acceptable to the <i>PSO</i> can operate the <i>generation facility</i> to provide <i>regulation</i> capability if the <i>generation facility</i> is or seeks to be registered to provide <i>regulation</i>;</p> <p>E.1.1.11 the time delay in seconds before the <i>generation facility</i> begins to respond following</p>	
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<p><i>facility</i> is or seeks to be registered to provide; and</p> <p>E.1.1.14 the minimum stable load level of the <i>generation facility</i> where the <i>generation facility</i> has or seeks to have its minimum stable load level registered.</p>	<p>the standard <i>contingency event</i> specified in the <i>system operation manual</i>;</p> <p>E.1.1.12 the lowest <i>energy</i> output level that the <i>generation facility</i> is capable of providing <i>reserve</i> for all <i>reserve classes</i>;</p> <p>E.1.1.13 the <i>reserve</i> capacity of the <i>generation facility</i> at low, medium and high <i>energy</i> output levels for each <i>reserve class</i> which the <i>generation facility</i> is or seeks to be registered to provide; and</p> <p>E.1.1.14 the minimum stable load level of the <i>generation facility</i> where the <i>generation facility</i> has or seeks to have its minimum stable load level registered.</p> <p><u>E.1.2 All references in section E.1.1 to an <i>import registered facility</i> shall also include a reference to any facility, installation and/or apparatus seeking to be registered as an <i>import registered facility</i>.</u></p>	
<p><b>CHAPTER 6 APPENDIX G – DISPATCH RELATED DATA</b></p>	<p><b>CHAPTER 6 APPENDIX G – DISPATCH RELATED DATA</b></p>	



<p><b>G.3 GENERATOR DATA</b></p> <p>G.3.2 Any <i>generation fixing constraints</i> to be applied in respect of the output level of each <i>generation registered facility</i> for each <i>dispatch period</i> in the <i>market outlook horizon</i>.</p> <p>G.3.3 Any additional <i>generic constraints</i> to be applied in respect of the output level of any group of <i>generating units</i> for the purpose of reflecting real limitations on those <i>generating units</i> for each <i>dispatch period</i> in the <i>market outlook horizon</i>.</p>	<p><b>G.3 GENERATOR DATA</b></p> <p>G.3.2 Any <i>generation fixing constraints</i> to be applied in respect of the output level of each <i>generation registered facility</i> <u>and each import registered facility</u> for each <i>dispatch period</i> in the <i>market outlook horizon</i>.</p> <p>G.3.3 Any additional <i>generic constraints</i> to be applied in respect of the output level of any group of <i>generating units</i> for the purpose of reflecting real limitations on those <i>generating units</i> for each <i>dispatch period</i> in the <i>market outlook horizon</i>.</p>	<p>To extend the generation fixing constraints to import registered facilities.</p>
<p><b>Explanatory Note: Generation fixing constraints are a special class of constraints, having the form of security constraints, imposed directly by the MCE on an individual generating facilities output (e.g. to limit output of a generator to a level suitable for voltage support). The additional constraints referred to in the previous clause have the same form as security constraints but may be applied to reflect physical constraints on groups of facilities at a location. These constraints may be required to address real-time outages etc., which are not strictly security related.</b></p>		
<p><b>G.5 SECURITY, RESERVE AND REGULATION DATA</b></p> <p>G.5.1 The set of all <i>security constraints</i> limiting combinations of <i>dispatch network line flows</i>, <i>generation registered facility output</i> levels and net injections at each <i>dispatch network node</i> for each <i>dispatch period</i> of the <i>market outlook horizon</i>.</p>	<p><b>G.5 SECURITY, RESERVE AND REGULATION DATA</b></p> <p>G.5.1 The set of all <i>security constraints</i> limiting combinations of <i>dispatch network line flows</i>, <i>generation registered facility output</i> levels, <u><i>import registered facility output levels</i></u> and net injections at each <i>dispatch network node</i> for each <i>dispatch period</i> of the <i>market outlook horizon</i>.</p>	<p>To extend the scope of security constraints to import registered facilities.</p>
<p><b>CHAPTER 6 APPENDIX H – ADVISORY NOTICES</b></p>	<p><b>CHAPTER 6 APPENDIX H – ADVISORY NOTICES</b></p>	

<p>H.1.2 An <i>energy surplus advisory notice</i> shall indicate:</p> <p>...</p> <p>H.1.2.2 the amount by which the output from <i>generation facilities</i> is expected to exceed <i>load</i> for each <i>dispatch period</i> referred to section H.1.2.1; and</p> <p>...</p> <p>H.1.3 An <i>energy shortfall advisory notice</i> shall indicate:</p> <p>...</p> <p>H.1.3.2 the amount by which the output from <i>generation facilities</i> is expected to fall short of <i>load</i> for each <i>dispatch period</i> referred to section H.1.3.1; and</p> <p>...</p> <p>H.1.6 A system status <i>advisory notice</i> pertaining to <i>load shedding</i> shall indicate:</p> <p>...</p> <p>H.1.6.2 the amount by which the output from <i>generation facilities</i> is expected to exceed <i>load</i> for each <i>dispatch period</i> referred to section H.1.6.1; and</p> <p>...</p>	<p>H.1.2 An <i>energy surplus advisory notice</i> shall indicate:</p> <p>...</p> <p>H.1.2.2 the amount by which the output from <i>generation facilities</i> <u>and import registered facilities</u> is expected to exceed <i>load</i> for each <i>dispatch period</i> referred to section H.1.2.1; and</p> <p>...</p> <p>H.1.3 An <i>energy shortfall advisory notice</i> shall indicate:</p> <p>...</p> <p>H.1.3.2 the amount by which the output from <i>generation facilities</i> <u>and import registered facilities</u> is expected to fall short of <i>load</i> for each <i>dispatch period</i> referred to section H.1.3.1; and</p> <p>...</p> <p>H.1.6 A system status <i>advisory notice</i> pertaining to <i>load shedding</i> shall indicate:</p> <p>...</p> <p>H.1.6.2 the amount by which the output from <i>generation facilities</i> <u>and import registered facilities</u> is expected to exceed <i>load</i> for each <i>dispatch period</i> referred to section H.1.6.1; and</p> <p>...</p>	<p>To extend the scope of advisory notice to import registered facility.</p>
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CHAPTER 7 SETTLEMENT	CHAPTER 7 SETTLEMENT	
2 SETTLEMENT DATA	2 SETTLEMENT DATA	
<p><b>2.2 ENERGY, REGULATION AND RESERVE MARKET DATA</b></p> <p>2.2.1 For the purposes of this Chapter, a reference to “GRF m” shall mean a reference to the GRF located at “MNN m”, a reference to “GSF m” shall mean a reference to the GSF located at “MNN m”, and a reference to “LRF p” shall mean a reference to a given <i>load registered facility</i> associated with <i>restricted energy bid p</i>.</p>	<p><b>2.2 ENERGY, REGULATION AND RESERVE MARKET DATA</b></p> <p>2.2.1 For the purposes of this Chapter, a reference to “GRF m” shall mean a reference to the GRF located at “MNN m”, <u>a reference to “IRF m” shall mean a reference to the IRF located at “MNN m”</u>, a reference to “GSF m” shall mean a reference to the GSF located at “MNN m”, and a reference to “LRF p” shall mean a reference to a given <i>load registered facility</i> associated with <i>restricted energy bid p</i>.</p>	<p>To add the requirement for EMC to determine IEQ for import registered facility.</p>

<p>2.2.2 The EMC shall, for each <i>dispatch period</i> and in accordance with section 10 of Chapter 6, determine the following <i>energy, regulation</i> and <i>reserve</i> prices and quantities for the <i>settlement interval</i> corresponding to that <i>dispatch period</i>.</p>	<p>2.2.2 The EMC shall, for each <i>dispatch period</i> and in accordance with section 10 of Chapter 6, determine the following <i>energy, regulation</i> and <i>reserve</i> prices and quantities for the <i>settlement interval</i> corresponding to that <i>dispatch period</i>:</p> <p style="text-align: center;">...</p> <p style="text-align: center;"><math>IEQ_n^{m(a)} \equiv</math> <u>injection energy quantity (in MWh) for IRF m(a) associated with settlement account a for settlement interval h, as determined by the EMC in accordance with the applicable market manual.</u></p> <p><b><u>Explanatory Note: Settlement of energy payments for import registered facilities will be based on their energy schedules. For an import registered facility, its injection energy quantities shall be determined by the EMC from its energy schedules instead of the energy quantities provided by the market support services licensee. The IEQ for import registered facilities is set out in this section 2.2.2, and is determined differently from the IEQ for generation registered facilities or generation settlement facilities.</u></b></p>	<p>To add the requirement for EMC to determine IEQ for import registered facility.</p>
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<p>2.2.4 The <i>EMC</i> shall, following each <i>dispatch period</i>, determine the <i>reserve responsibility share</i> (RRS) for each <i>GRF</i> for the <i>settlement interval</i> corresponding to that <i>dispatch period</i>:</p> <p><math>RRS_h^m</math> = share of total <i>reserve costs</i> to be paid by <i>GRF m</i>, as determined in accordance with Appendix 7A.</p>	<p>2.2.4 The <i>EMC</i> shall, following each <i>dispatch period</i>, determine the <i>reserve responsibility share</i> (RRS) for each <i>GRF</i> <u>or</u> <i>IRF</i> for the <i>settlement interval</i> corresponding to that <i>dispatch period</i>:</p> <p><math>RRS_h^m</math> = share of total <i>reserve costs</i> to be paid by <i>GRF m</i> <u>or</u> <i>IRF m</i>, as determined in accordance with Appendix 7A.</p>	<p>To add the requirement for EMC to determine RRS for import registered facility.</p>
<p><b>3.1 <u>NET ENERGY SETTLEMENT CREDITS</u></b></p> <p>3.1.1 The <i>EMC</i> shall determine the <i>generation energy settlement credit</i> (GESC) for each <i>settlement account</i> for each <i>settlement interval</i> in accordance with the following formula:</p> $GESC_h^a = \sum_{m(a)} MEP_h^{m(a)} \times IEQ_h^{m(a)}$ <p>where:</p> <p>a = a <i>settlement account</i></p> <p>h = a <i>settlement interval</i></p> <p><math>\sum_{m(a)}</math> = sum over all <i>GRFs m(a)</i> and <i>GSFs m(a)</i> associated with <i>settlement account a</i></p>	<p><b>3.1 <u>NET ENERGY SETTLEMENT CREDITS</u></b></p> <p>3.1.1 The <i>EMC</i> shall determine the <i>generation energy settlement credit</i> (GESC) for each <i>settlement account</i> for each <i>settlement interval</i> in accordance with the following formula:</p> $GESC_h^a = \sum_{m(a)} MEP_h^{m(a)} \times IEQ_h^{m(a)}$ <p>where:</p> <p>a = a <i>settlement account</i></p> <p>h = a <i>settlement interval</i></p> <p><math>\sum_{m(a)}</math> = sum over all <i>GRFs m(a)</i>, <u><i>IRFs m(a)</i></u> and <i>GSFs m(a)</i> associated with <i>settlement account a</i></p>	<p>To add the requirement for EMC to include IEQ of import registered facilities in the calculation of GESC.</p>

<p><b>Explanatory Note: The total cost of regulation in each settlement interval is, in general, allocated on a \$/MWh basis across all MWh of consumption plus all MWh of energy produced by each pseudo generation settlement facility and the first CSZ produced by each generation registered facility and generation settlement facility (that is not classified as a pseudo generation settlement facility) in that settlement interval.</b></p>	<p><b>Explanatory Note: The total cost of regulation in each settlement interval is, in general, allocated on a \$/MWh basis across all MWh of consumption plus all MWh of energy produced by each pseudo generation settlement facility and the first CSZ produced by each generation registered facility, <u>import registered facility</u> and generation settlement facility (that is not classified as a pseudo generation settlement facility) in that settlement interval.</b></p>	<p>Consequential amendments.</p>

**3.2 NET REGULATION SETTLEMENT CREDITS**

3.2.2.1 For a *settlement account* which is not associated with any *pseudo generation settlement facility*.

$$FEQ_h^a = WEQ_h^a + \sum_{m(a)} | \text{MIN} [IEQ_h^{m(a)}, CSZ]$$

where:

a = a *settlement account* which is not associated with any *pseudo generation settlement facility*

h = a *settlement interval*

$\sum_{m(a)}$  = sum over all *MNNs* m(a) of *GRFs* and *GSFs* associated with *settlement account a*

MIN[X, Y] = Minimum of X or Y

|X| = positive value for a real number, disregarding the sign

CSZ = the cut-off size (in MWh) described in Appendix 7A

**3.2 NET REGULATION SETTLEMENT CREDITS**

3.2.2.1 For a *settlement account* which is not associated with any *pseudo generation settlement facility*.

$$FEQ_h^a = WEQ_h^a + \sum_{m(a)} | \text{MIN} [IEQ_h^{m(a)}, CSZ]$$

where:

a = a *settlement account* which is not associated with any *pseudo generation settlement facility*

h = a *settlement interval*

$\sum_{m(a)}$  = sum over all *MNNs* m(a) of *GRFs*, *IRFs* and *GSFs* associated with *settlement account a*

MIN[X, Y] = Minimum of X or Y

|X| = positive value for a real number, disregarding the sign

CSZ = the cut-off size (in MWh) described in Appendix 7A

To add the requirement for EMC to include IEQ of import registered facilities in the calculation of FEQ.

<p><b>CHAPTER 7 APPENDIX A – CALCULATION OF RESERVE RESPONSIBILITY SHARES</b></p> <p>A.1.1 This Appendix describes the procedure that the EMC shall use to determine <i>reserve responsibility shares</i> (RRSs) for the purpose of allocating the costs of <i>reserves</i> among <i>GRFs</i> in each <i>settlement interval</i> as contemplated in section 2.2.4 of this Chapter. Unless otherwise indicated, each procedure described in this Appendix shall be applied for each <i>settlement interval</i>.</p>	<p><b>CHAPTER 7 APPENDIX A – CALCULATION OF RESERVE RESPONSIBILITY SHARES</b></p> <p>A.1.1 This Appendix describes the procedure that the EMC shall use to determine reserve responsibility shares (RRSs) for the purpose of allocating the costs of reserves among GRFs in each settlement interval as contemplated in section 2.2.4 of this Chapter. Unless otherwise indicated, each procedure described in this Appendix shall be applied for each settlement interval.</p> <p>A.1.2 <u>All references in this Appendix to a GRF (including in section A.1.1) shall also include references to an IRF.</u></p>	<p>To extend the calculation of RRS to import registered facilities.</p>
<p><b>Chapter 8 – Definitions</b></p>	<p><b>Chapter 8 – Definitions</b></p>	
<p><b>1 DEFINITIONS</b></p> <p>1.1.33 <i>connection agreement</i> means an agreement pertaining to the conditions for <i>connection</i> and access to the <i>transmission system</i>, entered into between the <i>transmission licensee</i> and any person whose plant, apparatus, structure, equipment or thing used for the <i>generation, transmission, supply</i> or use of <i>electricity</i> is <i>connected</i> or intended to be <i>connected</i> directly or indirectly to the <i>transmission system</i>, and to the terms and conditions relating to changes for services provided by the <i>transmission licensee</i> pursuant to section 20(2) of the <i>Electricity Act</i>;</p>	<p><b>1 DEFINITIONS</b></p> <p>1.1.33 <i>connection agreement</i> means an agreement pertaining to the conditions for <i>connection</i> and access to the <i>transmission system</i>, entered into between the <i>transmission licensee</i> and any person whose plant, apparatus, structure, equipment or thing used for the <i>generation, transmission, <u>import</u>, supply</i> or use of <i>electricity</i> is connected or intended to be connected directly or indirectly to the <i>transmission system</i>, and to the terms and conditions relating to changes for services provided by the <i>transmission licensee</i> pursuant to section 20(2) of the <i>Electricity Act</i>;</p>	<p>To extend the scope of connection agreement to “import”.</p>
<p>1.1.97 <i>energy offer</i> means a <i>standing offer</i> or an <i>offer variation</i> submitted to the EMC for a <i>generation registered facility</i> to provide <i>energy</i> to the <i>real-time market</i> for <i>energy</i>;</p>	<p>1.1.97 <i>energy offer</i> means a <i>standing offer</i> or an <i>offer variation</i> submitted to the EMC for a <i>generation registered facility</i> <u>or <i>import registered facility</i></u> to provide <i>energy</i> to the <i>real-time market</i> for <i>energy</i>;</p>	<p>Consequential amendments.</p>



1.1.116 <i>generation fixing constraint</i> means a class of <i>generic constraint</i> imposed by the <i>PSO</i> on the output of a <i>generation facility</i> ;	1.1.116 <i>generation fixing constraint</i> means a class of <i>generic constraint</i> imposed by the <i>PSO</i> on the output of a <i>generation facility</i> <u>or <i>import registered facility</i></u> ;	Consequential amendments.
1.1.120 <i>generic constraint</i> means a constraint on any one or more of the flows on a transmission line, the output of a <i>generation facility</i> or the net injections at a <i>dispatch network node</i> , and includes a <i>security constraint</i> and a <i>generation fixing constraint</i> ;	1.1.120 <i>generic constraint</i> means a constraint on any one or more of the flows on a transmission line, the output of a <i>generation facility</i> <u>or <i>import registered facility</i></u> or the net injections at a <i>dispatch network node</i> , and includes a <i>security constraint</i> and a <i>generation fixing constraint</i> ;	Consequential amendments.
[New Section]	<u>1.1.122 <i>import</i> means to deliver <i>electricity</i> from an <i>interconnected system</i> via the <i>intertie</i>;</u>	To include new definitions.
[New Section]	<u>1.1.123 <i>import capacity</i> means the maximum power that an <i>import registered facility</i> can deliver for purposes of <i>import</i>, usually expressed in megawatts;</u>	To include new definitions.
[New Section]	<u>1.1.124 <i>import registered facility</i> or <i>IRF</i> means a facility, installation and/or apparatus referred to in section 5.1.11 of Chapter 2 that has been registered as a <i>registered facility</i> to provide one or more of <i>energy</i>, <i>reserve</i>, <i>regulation</i> or <i>contracted ancillary services</i>;</u>	To include new definitions.
[New Section]	<u>1.1.126 <i>importer licensee</i> means a person who is authorised by an <i>electricity licence</i> to <i>import electricity</i>;</u>	To include new definitions.
1.1.127 <i>intertie schedule</i> means a schedule of the <i>energy</i> flow across an <i>intertie</i> between the <i>transmission system</i> and an <i>interconnected system</i> ;	1.1.42Z131 <i>intertie schedule</i> means a schedule of the <i>energy</i> flow across an <i>intertie</i> between the <i>transmission system</i> and an <i>interconnected system</i> <u>as provided by the <i>PSO</i> pursuant to section G.4.5 of Appendix 6G;</u>	To clarify that the <i>intertie</i> schedules refer to the planned <i>energy</i> flow as provided by the <i>PSO</i> .

<p>1.1.187 <i>offer variation</i> means an <i>energy offer</i>, a <i>reserve offer</i> or a <i>regulation offer</i> submitted to the <i>EMC</i> for a <i>generation registered facility</i> or a <i>reserve offer</i> submitted to the <i>EMC</i> for a <i>load registered facility</i> that varies the terms of a previous <i>energy offer</i>, <i>reserve offer</i> or <i>regulation offer</i> (as the case may be) submitted to the <i>EMC</i> for that <i>generation registered facility</i> or <i>load registered facility</i> for the same <i>dispatch period</i>;</p>	<p>1.1.187<del>187</del><u>191</u> <i>offer variation</i> means an <i>energy offer</i>, a <i>reserve offer</i> or a <i>regulation offer</i> submitted to the <i>EMC</i> for a <i>generation registered facility</i> <u>or <i>import registered facility</i></u> or a <i>reserve offer</i> submitted to the <i>EMC</i> for a <i>load registered facility</i> that varies the terms of a previous <i>energy offer</i>, <i>reserve offer</i> or <i>regulation offer</i> (as the case may be) submitted to the <i>EMC</i> for that <i>generation registered facility</i>, <u><i>import registered facility</i></u> or <i>load registered facility</i> for the same <i>dispatch period</i>;</p>	<p>Consequential amendments.</p>
<p>1.1.272 <i>standing offer</i> means an <i>offer</i> required to be submitted to the <i>EMC</i> for a <i>generation registered facility</i> or a <i>load registered facility</i> in accordance with section 5 of Chapter 6;</p>	<p>1.1.272<del>272</del><u>276</u> <i>standing offer</i> means an <i>offer</i> required to be submitted to the <i>EMC</i> for a <i>generation registered facility</i>, <u><i>import registered facility</i></u> or a <i>load registered facility</i> in accordance with section 5 of Chapter 6;</p>	<p>Consequential amendments.</p>

**Annex 2: Application form for Registration of Import Registered Facility by an Importer Licensee (New)**

# **Application form for Registration of Import Registered Facility by an Importer Licensee**

including explanatory notes

**IMPORTANT: Please read this carefully before completing this form. Italicised words and expressions used herein (but not otherwise defined herein) shall have the same meanings respectively ascribed to them in the Singapore Electricity Market Rules.**

#### **Why do you need to complete this form?**

Under the *market rules*, if you are not a *market support services licensee*, you are **not permitted** to participate in the *real-time markets* or to cause or permit any *physical service* to be conveyed into, through or out of the *transmission system* unless you have been registered by the *EMC* as a *market participant*, and your facility to or from which the *physical service* is to be so conveyed has been registered by the *EMC* as a *registered facility*, a *commissioning generation facility*, a *generation settlement facility* or a *non-exporting embedded intermittent generation facility* in accordance with the *market rules*.

The *EMC* is licensed by the Energy Market Authority (the “*Authority*”) to operate the *wholesale electricity markets* (to which the *real-time markets* form a part) in Singapore. One of the *EMC*’s responsibilities is to manage the registration of facilities in the *wholesale electricity markets*. You must complete and submit this form to apply to have a facility, installation and/or apparatus registered by the *EMC*, if you wish to cause or permit *energy* to be conveyed into, through or out of the *transmission system* from any facility, installation and/or apparatus used for, or for purposes connected with, the production of *electricity* for *import* into the *transmission system*, or the *import of electricity*.

#### **Why did EMC develop this form?**

The *EMC* has developed this form for applicants to apply for the relevant facility registration described in the *market rules*. You should read the relevant sections of the *market rules* prior to completing this form. Please also read the *EMC*’s disclaimer at the end of this form.

#### **Who is eligible to apply for registration?**

You should apply for the registration of an *import registered facility* if you intend to participate in the *real-time markets* and cause or permit *energy* to be conveyed into, through or out of the *transmission system* from any facility, installation and/or apparatus (“**Facility**”) used for, or for purposes connected with, the production of *electricity* for *import* into the *transmission system*, or the *import of electricity*.

You must obtain an *electricity licence* for the *import of electricity* and be registered as a *market participant* before you are eligible to apply for registration of an *import registered facility*.

However, if you are only granted *conditional registration* as a *market participant*, you may also apply for registration of your Facility, but your Facility will not be registered unless you become registered as a *market participant* within the relevant conditional registration deadline.

This application form is to be used for the application for registration of an *import registered facility* only. If you wish to register a facility as any other type of *registered facility*, or a *commissioning generation facility* or *non-exporting embedded intermittent generation facility*, please use the appropriate application form for such type of facility.

#### **When will you know the outcome of your application?**

The *EMC* will notify you in writing of the outcome within 30 *business days* of the *EMC* being satisfied that your application meets all the requirements for facility registration under the *market rules*, the applicable *market manuals* and the *system operation manual*. If your application is declined, the notification will identify why this was the case. A duly and accurately completed form will expedite the *EMC*’s processing of your application.

#### **Is there an application fee for your application to register your Facility as an import registered facility?**

There is no application fee payable for your application.

## Summary of registration requirements for an import registered facility

The key requirements in the process for the registration of an *import registered facility* are outlined in the table below:

A	<b>Meet the EMC's requirements</b>	<p>You must ensure that</p> <ul style="list-style-type: none"> <li>• your Facility meets all applicable technical requirements set forth in the <i>market rules</i>, any applicable <i>market manuals</i> or the <i>system operation manual</i>; and</li> <li>• you are able to perform all the functions and obligations applicable to you under the <i>market rules</i>, the <i>market manuals</i> or the <i>system operation manual</i>.</li> </ul> <p>You cannot change your designated <i>dispatch coordinator</i> for your <i>registered facility</i> without the prior approval of the EMC.</p>
B	<b>Meet the PSO's requirements</b>	<ul style="list-style-type: none"> <li>• You must complete the PSO's Data Form for Import Registered Facility Registration, meeting all the applicable technical requirements and attaching any required documents during submission.</li> <li>• The registration of your Facility is subject to the PSO advising the EMC that such facility, installation and/or apparatus poses no threat to the <i>reliability</i> or <i>security</i> of the PSO controlled system.</li> </ul>
D	<b>Prepare and attach required documents</b>	<p>You must duly complete this application form in respect of your Facility and provide all required supporting documents with your application, including the following:</p> <ul style="list-style-type: none"> <li>• A certified true copy of your <i>Electricity Licence for Electricity Importer Licensee</i></li> <li>• A certified true copy of your duly executed importer <i>connection agreement</i> with the <i>transmission licensee</i>.</li> <li>• A certified true copy of your duly executed Importer Facility Operating Agreement with the PSO.</li> <li>• An original duly completed and executed Certificate and Undertaking (substantially in the form and terms prescribed in <b>Appendix B</b> of this application form) for your facility.</li> <li>• An original duly completed Data Form for Import Registered Facility Registration required by the PSO (as described in <b>Appendix C</b> of this application form) for your facility.</li> </ul>
E	<b>Standing Offer Data</b>	<p>You must comply with section D below.</p>
F	<b>Registration as an import registered facility</b>	<p>Your Facility will be registered as an <i>import registered facility</i> if the EMC is satisfied that your Facility meets all the requirements for such facility registration under the <i>market rules</i>, the applicable <i>market manuals</i> or the <i>system operation manual</i>. The EMC will notify you of the terms and conditions of the registration in an official notice to you. If your application is declined, the EMC will write to you stating the reasons.</p>

### How can you obtain more information?

In addition to this form and the *market rules*, you may obtain more information by contacting the *EMC* Market Administration Team by telephone at +65 6779 3000. Alternatively, you may visit the *EMC*'s website at [www.emcsg.com](http://www.emcsg.com).

Please print clearly. Illegible writing or incomplete forms may delay the processing of your application.

### A. APPLICANT DETAILS

Name of Applicant (in full): \_\_\_\_\_

Identification Number<sup>1</sup>: \_\_\_\_\_

Registered Address: \_\_\_\_\_

### B. REGULATORY DETAILS

1. **Authorised activities relating to *electricity* under your *electricity licence(s)*:**

**Note:** You must be authorized to *import electricity* and trade in the *wholesale electricity market* under your *electricity licence(s)* in order to apply for the registration of an *import registered facility*

*Electricity licence* number(s): \_\_\_\_\_

\_\_\_\_\_

2. **Derogation requested:**  Yes  No

3. **Wholesale Electricity *settlement account*:** \_\_\_\_\_

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<sup>1</sup> This refers to the Applicant's ACRA registration number, Unique Entity Number or NRIC number, as the case may be.  
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xx 2021



**C. FACILITY DETAILS**

4. **Name of the Facility:**

---

5. **Identifier of the intertie and the interconnected system:**

---

6. **Energy source(s) and its source location(s):**

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(Please also complete **Appendix A** of this application form.)

7. **Dispatch coordinator for the Facility:**

---

8. **Contacts of the *dispatch coordinator* for the Facility:**

	<b>Main Contact</b>	<b>Alternate contact</b>
Full Name & Designation		
Business Contact Nos.		
Business Email Address		
Business Hand phone Nos.		
Business Fax Nos.		

9. **Physical service intended to be provided from the Facility:**

*Energy*

10. **Minimum scheduled quantity of energy established by the Authority (if any):** \_\_\_\_\_

**D. STANDING OFFER DATA**

Please provide a *standing offer* for each *physical service* to be provided from your Facility. Each such *standing offer* must be submitted to the EMC in the data format required by and in accordance with the EMC's Market Operations Market Manual on Standing Offers, Standing Bids, Offer Variations, Bid Variations and Standing Capacity Data (Chapter 6 Market Rules).

**E. IMPORT REGISTERED FACILITY REGISTRATION  
(FOR SUBMISSION TO THE PSO)**

Please complete the *PSO* Data Form for Import Registered Facility Registration which is described in **Appendix C** of this application form. All relevant sections in the form must be duly completed. The duly completed form must be sent to the *EMC* together with all supporting documentation.

**F. CHECKLIST OF SUPPORTING DOCUMENTS REQUIRED**

You must attach the following documents to your application form:

- A certified true copy of your *Electricity Licence* for *Electricity Importer Licensee*
- A certified true copy of your duly executed importer *connection agreement* with the *transmission licensee*.
- A certified true copy of your duly executed Importer Facility Operating Agreement with the *PSO*.
- An original duly completed and executed Certificate and Undertaking (substantially in the form and terms prescribed in **Appendix B** of this application form) for your Facility.
- An original duly completed Data Form for Import Registered Facility Registration required by the *PSO* (as described in **Appendix C** of this application form) for your Facility.
- A duly completed NEMS Systems User Account and IP Address Administration Form (as may be prescribed by the EMC), confirming that the system operator of the *interconnected system* is authorized to access the schedule of the *import registered facility*.

=====

**FOR EMC OFFICIAL USE**

1. Assigned MNN number(s): \_\_\_\_\_

## G. COVENANT AND DECLARATION

We/I, the undersigned applicant, having read and fully understood the *market rules*, the terms of this application form, the applicable *market manuals*, the *system operation manual*, the *Electricity Act*, and any other applicable laws, codes, rules, procedures or policies that are relevant to or regulate the *wholesale electricity markets* (collectively the 'Regulations'), and/or having had the benefit of relevant independent advice, hereby apply to register our/my facility, installation and/or apparatus as an *import registered facility* as stated in this application form.

We/I hereby agree to be bound by, and to comply with, all the Regulations which may be applicable to us/me, our/my registration application herein, our/my facility, installation and/or apparatus and our/my participation in the relevant *wholesale electricity markets*.

We/I further hereby declare that the information provided by us/me (or on our/my behalf) in or in connection with this registration application is true, complete and accurate and not misleading or omitting any material particular (to the best of our/my knowledge, information and belief after having carried out all necessary due diligence to determine the same) and hereby covenant to be subject to any sanctions, penalties or orders as may be imposed by the relevant authorities/parties under the Regulations, in the event that such information is found to be untrue, misleading or inaccurate in any material particular.

We/I hereby undertake to immediately notify the *EMC* of any change to any information provided in relation to our/my application for registration herein.

We/I further hereby covenant to be legally bound by the relevant dispute resolution provisions under the *market rules* and any applicable *market manual*, in the event that this registration application is denied and a dispute arises from such unsuccessful application.

We/I confirm and acknowledge that the information provided by us/me (or on our/my behalf) in or in connection with this registration application may need to be disclosed, communicated or exchanged by the *EMC* to or with other parties, including but not limited to the *Authority*, the *PSO* and a *market support services licensee*, as necessary, desirable or expedient for the purposes of processing this registration application under the Regulations and we/I hereby consent to such disclosure, communication or exchange.

Signed for and on behalf of: \_\_\_\_\_  
(Name of Applicant)

Signature: \_\_\_\_\_

Name of officer: \_\_\_\_\_

Position/designation: \_\_\_\_\_

Date: \_\_\_\_\_

## H. EMC'S DISCLAIMER

Energy Market Company Pte Ltd (“EMC”) has produced this publication for use in connection with the Singapore Electricity Market. This publication is not a substitute for and should not be read in lieu of the Singapore Electricity Market Rules or any other applicable laws, codes, rules, procedures, manuals or policies that are relevant to or regulate the Singapore Electricity Market or the electricity industry. The contents of this publication do not constitute legal or business advice and should not be relied upon as a substitute for obtaining such advice.

*EMC*, its directors and employees, subsidiaries, associates and affiliates make no representations, endorsements or warranties of any kind whatsoever in relation to the contents of this publication, and in no event shall *EMC*, its directors and employees, subsidiaries, associates and affiliates be liable to any party for any damages, claims, expenses or losses of any kind arising from or in connection with any use of or reliance on the accuracy, availability, currency, title, non-infringement, quality, reliability, suitability and completeness of the contents of this publication.

Any modifications or amendments to this publication shall be made in accordance with the relevant provisions of the Singapore Electricity Market Rules.

## Appendix A: Import Registered Facility Details

S/No	Energy Source	Type of Energy Source	Source Location	Capacity
1				
2				
3				
4				

## Appendix B

### SAMPLE CERTIFICATE AND UNDERTAKING [To be set out on the applicant's letterhead.]

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#### CERTIFICATE AND UNDERTAKING

To: **Energy Market Company Pte Ltd**  
(hereinafter referred to as the "**EMC**")

We/I, [■state name of applicant], refer to our/my Application Form for Import Registered Facility Registration by an Importer Licensee dated [■state date] for the registration of [■identify the *facility, installation and/or apparatus* name here] (the "**Facility**") as an *import registered facility* under the *market rules* and the applicable *market manuals* of the EMC (the "**Application**").

Pursuant to the Application, we/I hereby confirm, certify and undertake to the EMC (with a view to the EMC relying upon our/my confirmations, certifications and undertakings herein in considering our/my Application) that:

- 1) we/I have (and we/I will continue to have through to, on and from the registration of the Facility by the EMC) operational control and authority over the Facility for the purposes of the *market rules*;
- 2) all our/my facilities, installations, apparatus and equipment to which the Application relates meet all applicable technical requirements under the *market rules*, the applicable *market manuals* and the *system operation manual*; and
- 3) we/I have adequate qualified personnel and organisational and other arrangements that are sufficient to enable us/me to perform all of our/my functions and obligations applicable to us/me as *market participants* under the *market rules*, the applicable *market manuals* and the *system operation manual*, including reliable services during normal and emergency situations, in respect of our/my participation in the *wholesale electricity market*.

Our/my confirmations, certifications and undertakings herein shall be governed by and construed in accordance with the laws of the Republic of Singapore. All italicised expressions used herein shall have the same meanings as respectively ascribed to them in the Singapore Electricity Market Rules of the EMC.

Signed for and on behalf of \_\_\_\_\_  
(Name of Applicant)

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Date: \_\_\_\_\_

## Appendix C

### Power System Operator (PSO) Data Form for Import Registered Facility Registration

- The facility registration form is available for download from the EMA's website at [www.ema.gov.sg/NEMS\\_Activities.aspx](http://www.ema.gov.sg/NEMS_Activities.aspx).
- Please note that the form may be amended, updated or replaced from time to time and you should ensure that you obtain and use the most up-to-date version available at the above website at the time of your application.



### Annex 3: Proposed Modification to Market Operation Market Manual (Settlement)

Existing Market Manuals (1 April 2021)	Proposed Modification  (Deletions represented by strikethrough text and additions represented by double underlined text)	Reasons for Modification
New Section	<p><b><u>4A Settlement Data of Import Registered Facility</u></b></p> <p><b><u>4A.1 Deadline for Provision of Advisory Notice by the Power System Operator</u></b></p> <p><u>In the event that an <i>import registered facility</i> is isolated from the <i>transmission system</i> due to the outage of <i>interties</i>, the <i>PSO</i> shall inform the <i>EMC</i> via the advisory notices of the starting time of the isolation, no later than 5:00pm, of the fifth <i>business day</i> after the <i>trading day</i>.</u></p>	To include the requirement for the PSO to provide information on the starting time of intertie outage via advisory notices within a stipulated timeline.

<b>New Section</b>	<b><u>4A.2 Determination of Injected Energy Quantities for Import Registered Facilities</u></b>		To include the requirement for the EMC to determine the injected energy quantity in accordance with the formula stipulated in sections 4A.2.1 and 4A.2.2.
	<u>4A.2.1 The EMC, shall for each settlement interval, determine the injection energy quantity (IEQ) for each import registered facility in accordance with the following formula:</u>		
	$IEQ_h^{m(a)} = \frac{d_h}{DispatchPeriod} * SZ_h^{m(a)}$		
	<u>where</u>		
	<u><math>SZ_h^{m(a)}</math></u> =	<u>(1/2-hour) x energy schedule (in MW) in the real-time dispatch schedule or the PSO's dispatch instruction if the EMC is notified by the PSO that dispatch instructions have been issued to an import registered facility;</u>	
<u><math>d_h</math></u> =	<u>The duration (in seconds) that import registered facility is not under isolated mode;</u>		
<u>DispatchPeriod</u> =	<u>The duration in seconds of the settlement interval h. This shall be 1800;</u>		

New Section

4A.2.2 The duration that an import registered facility is not under isolated mode (dh) shall be determined in accordance with the following formula:

$$d_h = \begin{cases} DispatchPeriod, & (isoT_{h-1}^{start} = null \text{ and } isoT_h^{start} = null) \text{ or } [isoT_{h-1}^{start} < t_{h-1}^{receiving}] \\ isoT_h^{start} - t_h^{start}, & isoT_i^{start} \neq null \\ 0, & isoT_{h-1}^{start} \geq t_{h-1}^{receiving} \end{cases}$$

<u>where</u>	
<u>DispatchPeriod=</u>	<u>The duration in seconds of the settlement interval h. This shall be 1800;</u>
<u>t<sub>h</sub><sup>start</sup> =</u>	<u>the start time of settlement interval h;</u>
<u>t<sub>h</sub><sup>receiving</sup> =</u>	<u>the receiving time of network status file during settlement interval h; and</u>
<u>isoT<sub>h</sub><sup>start</sup> =</u>	<u>the start time of isolated mode within settlement interval h.</u>

**Annex 4: Proposed Modification to Market Operation Market Manual**

**(Standing Offers, Standing Bids, Offer Variations, Bid Variations and Standing Capability Data)**

<p style="text-align: center;"><b>Existing Market Manuals (1 April 2021)</b></p>	<p style="text-align: center;"><b>Proposed Modification</b> (Deletions represented by strikethrough text and additions represented by double underlined text)</p>	<p style="text-align: center;"><b>Reasons for Modification</b></p>
<p><b>2 Standing offers and standing bids</b></p> <p><b>2.1 What is a “standing offer” and a “standing bid”?</b></p> <p><i>A standing offer refers to (i) an energy offer, a reserve offer or a regulation offer required to be submitted to the EMC in respect of a generation registered facility or (ii) a reserve offer required to be submitted to the EMC in respect of a load registered facility that is registered to provide reserve.</i></p>	<p><b>2 Standing offers and standing bids</b></p> <p><b>2.1 What is a “standing offer” and a “standing bid”?</b></p> <p><i>A standing offer refers to (i) an energy offer, a reserve offer or a regulation offer required to be submitted to the EMC in respect of a generation registered facility, <del>or</del> (ii) <u>an energy offer required to be submitted to the EMC in respect of an import registered facility, or</u> (iii) a reserve offer required to be submitted to the EMC in respect of a load registered facility that is registered to provide reserve.</i></p>	<p>To reflect that import registered facilities are required to submit energy offer.</p>

<p>2.7 Rules for validation of standing offers and standing bids</p> <p>...</p> <div style="border: 1px solid black; padding: 5px;"> <p><b>Rule 3: Validate that the total quantity <i>offered</i> or <i>bidden</i> does not exceed the <i>standing capability data</i> maximum values for <i>generation capacity</i> or maximum <i>load curtailment capacity</i></b></p> <ul style="list-style-type: none"> <li>• For an <i>energy offer</i>, the total quantity of <i>energy offered</i> for a <i>dispatch period</i> (i.e. the sum of all 10 quantity fields in the <i>energy offer</i>) must not exceed: <ul style="list-style-type: none"> <li>– the <i>registered facility's</i> maximum <i>generation capacity</i> indicated in its <i>standing capability data</i> for that <i>dispatch period</i>; and</li> <li>– the <i>registered facility's</i> stated maximum combined capacity for <i>energy, reserve</i> and <i>regulation</i> for that <i>dispatch period</i>.</li> </ul> </li> </ul> <p>...</p> </div>	<p>2.7 Rules for validation of standing offers and standing bids</p> <p>...</p> <div style="border: 1px solid black; padding: 5px;"> <p><b>Rule 3: Validate that the total quantity <i>offered</i> or <i>bidden</i> does not exceed the <i>standing capability data</i> maximum values for <i>generation capacity</i><u><i>import capacity</i></u> or maximum <i>load curtailment capacity</i></b></p> <ul style="list-style-type: none"> <li>• For an <i>energy offer</i>, the total quantity of <i>energy offered</i> for a <i>dispatch period</i> (i.e. the sum of all 10 quantity fields in the <i>energy offer</i>) must not exceed: <ul style="list-style-type: none"> <li>– the <i>registered facility's</i> maximum <i>generation capacity</i> <u>or <i>import capacity</i></u> indicated in its <i>standing capability data</i> for that <i>dispatch period</i>; and</li> <li>– the <i>registered facility's</i> stated maximum combined capacity for <i>energy, reserve</i> and <i>regulation</i> for that <i>dispatch period</i>.</li> </ul> </li> </ul> <p>...</p> </div>	<p>To reflect that import registered facilities are required to submit energy offer.</p>
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<p><b>3 Offer variations and bid variations</b></p> <p><b>3.1 What is an “offer variation” and a “bid variation”?</b></p> <p><i>Offer variation refers to (i) an energy offer, a reserve offer or a regulation offer submitted to the EMC in respect of a generation registered facility or (ii) a reserve offer submitted to the EMC in respect of a load registered facility that varies the terms of a previous energy offer, reserve offer or regulation offer, as the case may be, submitted to the EMC in respect of that generation registered facility or load registered facility that is registered to provide reserve for the same dispatch period.</i></p>	<p><b>3 Offer variations and bid variations</b></p> <p><b>3.1 What is an “offer variation” and a “bid variation”?</b></p> <p><i>Offer variation refers to (i) an energy offer, a reserve offer or a regulation offer submitted to the EMC in respect of a generation registered facility—<del>or</del>, <u>(ii) an energy offer submitted to the EMC in respect of an import registered facility, or (iii) a reserve offer submitted to the EMC in respect of a load registered facility</u> that varies the terms of a previous energy offer, reserve offer or regulation offer, as the case may be, submitted to the EMC in respect of that generation registered facility, <u>import registered facility</u> or load registered facility that is registered to provide reserve for the same dispatch period.</i></p>	<p>To reflect that import registered facilities are required to submit energy offer.</p>
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**4.5.10 Generation Registered Facility form**

Facility Details		
Field Names on Data Admin Screen	DATA	Unit
GENERATION TYPE	CCGT / ST / GT / RENEWABLE / OTHERS	N/A

**4.5.10 Generation Registered Facility and Import Registered Facility form**

Facility Details		
Field Names on Data Admin Screen	DATA	Unit
GENERATION TYPE	CCGT / ST / GT / <del>RENEWABLE</del> / <u>IGS/Battery/Import</u> / OTHERS	N/A

To include import as a new type in the facility form.

To include battery as a new type, and replace renewable with Intermittent Generation Sources(IGS) for consistency with the wording used in the standing data system.