

## Notice of Market Rules Modification

<b>Paper No.:</b>	EMC/RCP/83/2015/332
<b>Rule Reference:</b>	Market Rules Chapter 2, Sec 1.2, 5.1, 5.1.8, 5.1A, 5.3 & Chap 8 Mkt Manual (Registration & Authorisation Pt 2 & 3)
<b>Proposer:</b>	EMC, Market Admin
<b>Date Received by EMC:</b>	16 September 2015
<b>Category Allocated:</b>	2
<b>Status:</b>	Approved by EMA
<b>Effective Date:</b>	04 February 2016

This paper assesses the proposal to implement a check in EMC's market system<sup>1</sup> to exclude a Commissioning Generation Facility (CGF) whose registration has expired from being scheduled ("former CGF"), unless it has been registered as a Generation Registered Facility (GRF) or Generation Settlement Facility (GSF) by its CGF registration expiry date.

PSO proposed that EMC implement a check in EMC's market system to prevent any former CGF from continuing to participate in the real-time markets after the expiry of its CGF registration. Currently, market participants of CGFs whose registration has expired are not allowed to participate in the real-time markets nor cause or permit any physical service to be conveyed into, through or out of the transmission system from such CGFs. There are already provisions in the market rules for rule breaches to be dealt with by the Market Surveillance and Compliance Panel (MSCP).

Under the current rules, EMC has the responsibility to ensure that former CGFs are not scheduled for dispatch periods after the expiry date of the CGF's registration. Therefore, the proposal received does not constitute a rule change.

In addition, a review of the market rules on the registration of CGFs and the Application Form for the Registration of CGFs contained in the Market Administration Market Manual (Registration and Authorisation Part 3 of 4) was conducted to provide for generation facilities intending to be registered as GSFs to first register as a CGF if they are required to connect to the grid to undergo commissioning tests. Changes to the CGF registration form, and consequently the GRF registration form, are also proposed to ensure that the forms are consistent with the market rules and the other market manuals.

At the 83<sup>rd</sup> RCP meeting, the Panel requested for EMC to clarify with SP Services on their procedures and the actual transactions that would take place in the event that a former CGF injects electricity into, or withdraws electricity from, the grid. If required, EMC would also check with EMA on how to handle this issue.

The RCP also suggested that EMC look into setting an appropriate deadline in the market rules/manual for a CGF registration expiry date to be extended or for the CGF to be registered as a GRF or a GSF, so that the relevant parties have the required lead time to proceed with the deregistration/removal of the CGF where necessary. EMC agreed to follow up on the above-mentioned issues.

In relation to the review of the market rules and the market manuals for the registration of CGFs, the RCP **unanimously supported** the changes, and recommends that the EMC Board **adopt** the

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<sup>1</sup> EMC operates and maintains the market systems for scheduling and settling the market. These systems include the Market Clearing Engine, Settlements, Offer Management System, Trading Portal, API and Web Services.

proposed modifications to the Market Rules and the Market Manuals as set out in **Annexes 1 - 3**.

**Date considered by Rules Change Panel:** 06 November 2015

**Date considered by EMC Board:** 12 January 2016

**Date considered by Energy Market Authority:** 01 February 2016

**Proposed rule modification:**

See attached paper.

**Reasons for rejection/referral back to Rules Change Panel (if applicable):**

PAPER NO. : **EMC/BD/01/2016/06A**

RCP PAPER NO. : **EMC/RCP/83/2015/332**

SUBJECT : **REGISTRATION ISSUES RELATING TO  
COMMISSIONING GENERATION FACILITIES**

FOR : **DECISION**

PREPARED BY : **SERENA HO  
SENIOR ECONOMIST**

REVIEWED BY : **PAUL POH LEE KONG  
EVP, MARKET ADMINISTRATION**

DATE OF MEETING : **12 JANUARY 2016**

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### **Executive Summary**

This paper assesses the proposal to implement a check in EMC's market system<sup>1</sup> to exclude a Commissioning Generation Facility (CGF) whose registration has expired from being scheduled ("former CGF"), unless it has been registered as a Generation Registered Facility (GRF) or Generation Settlement Facility (GSF) by its CGF registration expiry date.

PSO proposed that EMC implement a check in EMC's market system to prevent any former CGF from continuing to participate in the real-time markets after the expiry of its CGF registration. Currently, market participants of CGFs whose registration has expired are not allowed to participate in the real-time markets nor cause or permit any physical service to be conveyed into, through or out of the transmission system from such CGFs. There are already provisions in the market rules for rule breaches to be dealt with by the Market Surveillance and Compliance Panel (MSCP).

Under the current rules, EMC has the responsibility to ensure that former CGFs are not scheduled for dispatch periods after the expiry date of the CGF's registration. Therefore, the proposal received does not constitute a rule change.

In addition, a review of the market rules on the registration of CGFs and the Application Form for the Registration of CGFs contained in the Market Administration Market Manual

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<sup>1</sup> EMC operates and maintains the market systems for scheduling and settling the market. These systems include the Market Clearing Engine, Settlements, Offer Management System, Trading Portal, API and Web Services.

(Registration and Authorisation Part 3 of 4) was conducted to provide for generation facilities intending to be registered as GSFs to first register as a CGF if they are required to connect to the grid to undergo commissioning tests. Changes to the CGF registration form, and consequently the GRF registration form, are also proposed to ensure that the forms are consistent with the market rules and the other market manuals.

At the 83<sup>rd</sup> RCP meeting, the Panel requested for EMC to clarify with SP Services on their procedures and the actual transactions that would take place in the event that a former CGF injects electricity into, or withdraws electricity from, the grid. If required, EMC would also check with EMA on how to handle this issue.

The RCP also suggested that EMC look into setting an appropriate deadline in the market rules/manual for a CGF registration expiry date to be extended or for the CGF to be registered as a GRF or a GSF, so that the relevant parties have the required lead time to proceed with the deregistration/removal of the CGF where necessary. EMC agreed to follow up on the above-mentioned issues.

In relation to the review of the market rules and the market manuals for the registration of CGFs, the RCP **unanimously supported** the changes, and recommends that the EMC Board **adopt** the proposed modifications to the Market Rules and the Market Manuals as set out in **Annexes 1 - 3**.

## 1. INTRODUCTION

This paper assesses the proposal to implement a check in EMC's market system<sup>2</sup> to exclude a Commissioning Generation Facility (CGF) whose registration has expired from being scheduled, unless it has been registered as a Generation Registered Facility (GRF) or Generation Settlement Facility (GSF) by its CGF registration expiry date.

In addition, a review of the market rules on the registration of CGFs and the Application Form for the Registration of CGFs contained in the Market Administration Market Manual (Registration and Authorisation Part 3 of 4) was conducted to provide for generation facilities intending to be registered as GSFs to first register as a CGF if they are required to connect to the grid<sup>3</sup> to undergo commissioning tests. Changes to the CGF registration form, and consequently the GRF registration form, are also proposed to ensure that the forms are consistent with the market rules and the other market manuals.

## 2. BACKGROUND

### 2.1 Relevant Market Rules

Chapter 2 Section 5.3.3 of the market rules stipulates that upon expiry<sup>4</sup> of the registration of a CGF, a market participant (MP) shall not participate in the real-time markets nor cause or permit any physical service to be conveyed into, through or out of the transmission system from such a former CGF unless such former CGF has been registered in accordance with section 5.2.

### 2.2 Problem Description and Proposal Received

In this paper, if a CGF's registration has expired, and it has not been registered as a GRF or GSF by its CGF registration expiry date, that CGF shall be referred to as a "former CGF" and such CGF's dispatch coordinator shall be referred to as a "former CGF coordinator".

The Power System Operator (PSO) had a concern that offers in respect of a former CGF may still be accepted by EMC's market system and the former CGF inadvertently scheduled to provide energy, reserve or regulation for the relevant real-time dispatch periods. If such former CGF is scheduled, PSO would then need to override the market clearing engine (MCE)-produced real-time dispatch schedule because the former CGF is not allowed to convey electricity into the grid.

To address this issue, PSO proposed that EMC implement a check in EMC's market system to prevent any former CGF from continuing to participate (including acceptance of offers by the MCE and being scheduled by the MCE for dispatch) in the real-time markets after the expiry of its CGF registration, unless it has been registered as a GRF or GSF by its CGF registration expiry date.

## 3. ANALYSIS

In the event that a CGF's registration has expired, it is no longer a registered facility and hence is not allowed to participate in the real-time markets under the market rules. To participate in the

<sup>2</sup> EMC operates and maintains the market systems for scheduling and settling the market. These systems include the Market Clearing Engine, Settlements, Offer Management System, Trading Portal, API and Web Services.

<sup>3</sup> The usage of the phrase "connect to the grid" in this paper is intended to reflect the same meaning as the wording in the existing market rules to "cause or permit any physical service to be conveyed into, through or out of the transmission system".

<sup>4</sup> A CGF's registration shall expire upon completion by the CGF of the final commissioning test submitted to and approved by the PSO.

real-time markets after the expiry date of its CGF registration, a CGF's dispatch coordinator shall, before that expiry date, attain the necessary approvals to register its CGF as a GRF or GSF. Alternatively, to continue to participate in the real-time markets as a CGF, the CGF's dispatch coordinator could seek PSO's approval to extend the expected completion date of the CGF's final commissioning test.

However, if the CGF's dispatch coordinator fails to attain the necessary approvals, it cannot convey physical services into the grid after the expiry date of its CGF registration. It would be a rule breach if the CGF does so. There are already provisions in the market rules for rule breaches to be dealt with by the Market Surveillance and Compliance Panel (MSCP).

### 3.1 Clarifying EMC's Obligation in the Market Rules

It appears that there could be a misunderstanding about EMC's obligation in the event that a former CGF coordinator continues to submit offers to EMC after the expiry of its CGF's registration. For the avoidance of doubt, in such cases, it is EMC's responsibility not to schedule such former CGFs for dispatch periods after the expiry date of the CGF's registration. Therefore, the proposal received does not constitute a rule change.

## 4. REVIEW OF MARKET RULES AND APPLICATION FORM FOR CGF REGISTRATION

Relating to the issue of the registration of CGFs, this paper includes a review of the changes required in the current market rules and the CGF registration form to provide for generation facilities intending to be registered as GSFs to first register as a CGF if they are required to connect to the grid to undergo commissioning tests. In addition, changes to the CGF registration form, and consequently the GRF registration form, are proposed to ensure the forms are consistent with the market rules and the other market manuals.

### 4.1 Classification of Generation Facilities

The different types of classification for the registration of generation facilities are as follows:

#### 1) Generation Registered Facility

If all the generation facilities (other than intermittent generation facilities (IGFs)) at the same generating station together have an aggregate name-plate rating of 10 MW or more, all such generation facilities must be registered as either a single GRF or two or more GRFs in accordance with the market rules. A GRF is subject to dispatch by the PSO.

#### 2) Generation Settlement Facility

If all the generation facilities (other than IGFs<sup>5</sup>) at the same generating station together have an aggregate name-plate rating of 1 MW or more but less than 10 MW, all such generation facilities must be registered as either a single GSF or two or more GSFs in accordance with the market rules. A GSF is registered for the delivery of energy only and is not subject to dispatch by the PSO. However, if any of such generation facility is intended to be subject to dispatch by the PSO, that generation facility must be registered as a GRF instead.

### 4.2 Proposed Changes

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<sup>5</sup> If a market participant intends to participate in the real-time markets or cause or permit a physical service to be conveyed into, through or out of the transmission system from one or more IGFs, such IGFs (regardless of their respective or aggregate name-plate ratings) must be registered as one or more GSFs, unless such registration requirements are waived by the Energy Market Authority.

Under the current market rules, only

- a) generation facilities with a name-plate rating of 10 MW or more and
- b) generation facilities with a name-plate rating of 1 MW or more but less than 10 MW and that intend to be subject to dispatch by the PSO

are required to be registered as CGFs.

However, some generation facilities that intend to be registered as GSFs may need to connect to the grid in order to carry out commissioning tests prior to the PSO's approval of the facility's technical data. Such generation facilities will have to register with EMC as a CGF on a transitional basis in order to do so. Therefore, the current market rules and CGF registration form should be amended to require such generation facilities to first register as a CGF before being registered as a GSF. In addition, changes to the CGF registration form, and consequently the GRF registration form, are proposed to ensure that the forms are consistent with the market rules and the other market manuals.

These proposed changes are summarised in Sections 6 and 7 and set out in Annexes 1 - 3 of this paper.

## 5. CONCLUSION

Currently, MPs of CGFs whose registration has expired are not allowed to participate in the real-time markets in respect of that former CGF. There are already provisions in the market rules for rule breaches to be dealt with by the MSCP. PSO had a concern that such former CGF could inadvertently be scheduled by the MCE, requiring PSO to override the real-time dispatch schedule.

Under the current rules, EMC has the responsibility to ensure that former CGFs are not scheduled for dispatch periods after the expiry date of the CGF's registration. Therefore, the proposal received does not constitute a rule change.

On a related issue of the registration of CGFs, rule changes are proposed to clarify that some generation facilities intending to be registered as GSFs are required to be registered as CGFs first to be allowed to connect to the grid to undergo commissioning tests. In addition, changes to the CGF registration form, and consequently the GRF registration form, are proposed to ensure that the forms are consistent with the market rules and the other market manuals.

## 6. PROPOSED RULE MODIFICATIONS

The proposed rule modifications are set out in **Annex 1**, and summarised in Table 1 below.

**Table 1: Summary of proposed rule changes**

Chapter/Section	Proposed Change	Reason for Change
Section 1.2.1 of Chapter 2	Changed "subject to sections 5.1.2 to 5.1.7" to "subject to sections 5.1.2 to 5.1.8".	To provide that the facility registration requirements referred to in section 1.2.1.2 shall also be subject to section 5.1.8.
Section 5.1.1 of Chapter 2	Changed "subject to sections 5.1.2 to 5.1.7" to "subject to sections 5.1.2 to 5.1.8".	To provide that the facility registration requirements referred to in section 5.1.1.2 shall also be subject to section 5.1.8.

Chapter/Section	Proposed Change	Reason for Change
Section 5.1.8 of Chapter 2	Added in a new section to state that a person, other than a market support services licensee (MSSL), may first register a generation facility as a CGF in pursuance of the subsequent registration of the generation facility as a GRF or a GSF.	To provide that a person who intends to participate in the real-time markets or cause or permit a physical service to be conveyed into, through or out of the transmission system from a generation facility may first register such facility as a CGF prior to registration as a GRF or a GSF.
Section 5.1A.1 of Chapter 2	Added in a new sub-section 5.1A.1.3 for an MP to apply for the registration of its facility as a CGF, and if the facility is required or intended to be registered as a GRF, the registration of an MP as the dispatch coordinator for such facility.	To provide that each applicable MP shall apply for the registration of its facility as a CGF and the registration of an MP as the facility's dispatch coordinator if the facility is required to be registered as a GRF.
Section 5.3.1 of Chapter 2	Amended to differentiate between a facility that is required or intended to be registered as a GRF, and one that is required or intended to be registered as a GSF and is required to cause or permit any physical service to be conveyed into, through or out of the transmission system, during the period in which the CGF is undergoing the commissioning tests.	<p>To provide for the requirement for an MP to apply to register a CGF on a transitional basis during the period it is going through commissioning tests, if the facility is required or intended to be registered as a GRF.</p> <p>To provide for the requirement for an MP to apply to register a CGF on a transitional basis during the period it is going through commissioning tests, if the facility is required or intended to be registered as a GSF and is required to cause or permit any physical service to be conveyed into, through or out of the transmission system.</p>
Section 5.3.2 of Chapter 2	Added in "a facility as" before "a commissioning generation facility". Changed "it" to "the EMC".	To clarify that EMC shall register the facility as a CGF if it is satisfied that the applicable market rules have been met.
	Changed "any" to "each".	To clarify that each such registration shall expire upon completion by the CGF of the final commissioning test.
	Deleted the word "generating" in "commissioning generating generation facility".	To correct a typographical error.
Section 5.3.3 of Chapter 2	Added in a reference to section 5.4.	To provide for the registration of a CGF in accordance with section 5.4 on the registration of GSFs.

Chapter/Section	Proposed Change	Reason for Change
Section 5.3.5 of Chapter 2	Deleted “and the tests referred to in such plans as are approved by the PSO and shall be scheduled in accordance with the procedures applicable to the outage coordination process described in section 7 of Chapter 5, with any applicable market manual and with the system operation manual”.	To remove the requirement for scheduling of commissioning test plans in accordance with the procedures applicable to the outage coordination process described in section 7 of Chapter 5.
	Added in the condition “if determined by the PSO to be required”.	To provide that the detailed commissioning test plans shall include the information set out in sections 5.3.5.1 to 5.3.5.4, but only if determined by the PSO to be required.
	Italicised “energy”.	To italicise terms which are defined in Chapter 8 of the market rules.
	Added in the word “power” after “reactive”.	To amend the existing references of “reactive output” to “reactive power output”.
	Deleted the word “generating” in “commissioning generating generation facility”.	To correct a typographical error.
Section 5.3.6 of Chapter 2	Added in sub-sections 5.3.6.1 and 5.3.6.2 to differentiate between a CGF that should be treated as a GRF and one that should be treated as a GSF.	To differentiate between a CGF which has been registered by EMC that should be treated as a GRF and one that should be treated as a GSF.
Section 1.1.30 of Chapter 8	Revised numbering.  Deleted “in either case”.	To generally clarify the definition of a CGF.
	Changed “designated” to “registered”.	To clarify CGFs are registered, as opposed to designated, by the EMC.

## 7. PROPOSED MARKET MANUAL MODIFICATIONS

The proposed market manual modifications are set out in **Annexes 2 and 3**, and summarised in Tables 2 and 3 below. The corresponding clean versions of the proposed revised market manual are appended as **Annexes 4 and 5**.

**Table 2: Summary of proposed market manual changes - Application form for Commissioning Generation Facility Registration by a Market Participant**

Page Number/Appendix of Tracked Change Version of the Form	Proposed Change	Reason for Change
General	Changed the date in the footer of each page.	To include in the form the “year when first published” and “year when substantially revised”.
1	Deleted “based on the Singapore Electricity Market Rules”.	To be consistent with the other application forms.
	Changed “Application form for Registration of Commissioning Generation Facility” to “Application form for Commissioning Generation Facility Registration by a Market Participant”.	To be consistent with the naming of the other application forms.
	Deleted a full stop after “including explanatory notes”.	To be consistent with the other application forms.
2	Added in the paragraph on the “IMPORTANT” note.	To be consistent with the other application forms.
	Revised the sections 1) explaining why the form has to be completed, 2) why EMC developed the form, and 3) who is eligible to apply for registration, taking reference from the same sections in the other forms.	To be consistent with the other application forms.
	Added in “you need to complete a separate form for this type of registration”.	To clarify that a separate form should be used for the registration of a GRF and a GSF.
	Changed “commissioning generating facility” to “commissioning generation facility”.	To be consistent with the defined term in Chapter 8 of the Market Rules.
	Revised the conditions under which a generation facility should be registered as a CGF.	To specify that an MP should register a facility as a CGF if the facility is required or intended to be registered as a GRF, or if the facility is required or intended to be registered as a GSF and is required to cause or permit any physical service to be conveyed through the transmission system during the period it is going through commissioning tests.
3	Added in “This application form is to be used for application for registration of a CGF only”, and rephrased the explanation on when	To clarify that the form is to be used to apply for the registration of a CGF only, and that the Application form for Generation Facility Registration

	the Application form for Generation Facility Registration should be used.	should be used if the applicant wishes to proceed with the application of the facility as a GRF or a GSF.
	Revised the sections on 1) when an applicant will know the outcome of his application, 2) what an applicant should do if he has more than one facility to register, and 3) whether there is an application fee for facility registration, taking reference from the same sections in the other forms.	To be consistent with the other application forms.
4	Deleted the parts stating "10MW and above or 1MW to less than 10MW and subject to PSO dispatch".	No longer applicable/required since the conditions under which a generation facility should be registered as a CGF have already been set out in the earlier section of the form.
	Added in a section "meet metering requirements", and revised the other sections in the table.	To be consistent with the application form for generation facility registration by an MP.
5	Added in a section "standing offer data", and revised the section "registration as a CGF" in the table.	To specify that only facilities that are to be subsequently registered as a GRF must comply with section D of the CGF form.  To be consistent with the application form for generation facility registration by an MP.
	Revised the section on how an MP can obtain more information.	To be consistent with the other application forms.
6	Added in the word "writing" after illegible.	To make an editorial change.
	Added in a new section on "applicant details".	To be consistent with the other application forms.
	Revised Section B on regulatory details.	To be consistent with the other application forms.
	For question 2, changed "name plate capacity" to "name-plate rating".	To be consistent with the market rules.
	For question 2, changed the options "1 to less than 10 MW" and "10 MW and above" to "1 MW or more but less than 10 MW" and "10 MW or more" respectively.	To improve clarity and be consistent with the market rules.

	Added in a new Question 3 to indicate the type of generation facility registration that the applicant will subsequently be applying for.	To require the applicant to indicate if it will subsequently be applying for the registration of a GRF or a GSF.
7	Delete "market" in "Wholesale Electricity Market Settlement account".	To be consistent with the other application forms.
	Italicised "settlement account".	To italicise a defined term in Chapter 8 of the Market Rules.
8	Changed "physical address" to "location".	To be consistent with the other application forms.
	Added in "of this application form" after "Appendix A".	To clarify that the Appendix A referred to is the one in the CGF form.
	Deleted "designated" before "dispatch coordinator" and added in that Question 10 is only applicable if the facility is to be registered as a GRF.	To be consistent with the application form for generation facility registration by an MP.
	Rephrased Question 11 and added in that Question 11 is only applicable if the facility is to be registered as a GRF.	To be consistent with the application form for generation facility registration by an MP.
9	Changed "Numbers" to "Nos".	To be consistent with the rest of the fields in the same table, and to be consistent with the other application forms.
	Added in a new Question 12 on the "Physical service intended to be provided from the facility"	To be consistent with the application form for generation facility registration by an MP.
	Added in a new Question 13 on the expected start date and completion date of the commissioning tests.	To get an indication from the MP on the expected start date and completion date of the commissioning tests.
	Added in two new Questions 14 and 15 on the other authorisations/approvals granted by the Authority, and on IGFs, respectively.	To be consistent with the application form for generation facility registration by an MP.
10	Revised Section D on standing offer data and Section E on generation facility registration (for submission to the PSO).	To be consistent with the application form for generation facility registration by an MP.
11	Revised Section F on the checklist of supporting documents required.	To be consistent with the application form for generation facility

		registration by an MP.
	Delete the word “registered” before “facility”.	To reflect that the facility would not yet be registered at the point of filling in the CGF form.
	Added in “the” in front of “MSSL” and “EMC”.	To be consistent with the Market Rules and the other application forms.
	Changed “Id no” to “ID Number”. Changed “physical address” to “location”.	To be consistent with the application form for generation facility registration by an MP.
12-13	Revised Section G on covenant and declaration.	To be consistent with the other application forms.
14	Added in the labelling of Section H before “EMC’s disclaimer”.	To fill in a missing section label.
	Changed “Limited” to “Ltd”.	To align with the ACRA registered name of EMC: “Energy Market Company Pte Ltd”.
Appendix A	Deleted “per generation licensee”. Added in “the” in front of “EMC”.	To be consistent with the application form for generation facility registration by an MP.
	Changed “Generating Facilities” to “Generation Facility”.	To clarify that each row of the table is for one generation facility.  To be consistent with the defined term in the Market Rules.
Appendix B	Added in a new Appendix B on the sample certificate and undertaking.	To be consistent with the other application forms.
Appendix C	Revised Appendix C on the PSO data form for generation facility registration.	To be consistent with the application form for generation facility registration by an MP.

**Table 3: Summary of proposed market manual changes - Application form for Generation Facility Registration by a Market Participant**

<b>Page Number/Appendix of Tracked Change Version of the Form</b>	<b>Proposed Change</b>	<b>Reason for Change</b>
General	Changed the date in the footer of each page.	To include in the form the “year when first published” and “year when substantially revised”.
2	Changed “Application form for Registration of Commissioning	To be consistent with the proposed change in the name of the

	Generation Facility” to “Application form for Commissioning Generation Facility Registration by a Market Participant”.	application form for the registration of a CGF.
3	Added in the word “intended”.	To clarify that if a facility less than 10 MW intends to be subject to dispatch by the PSO, that facility must be registered as a GRF.
	Changed “EMC” to “EMC’s”.	To correct a typographical error.
4	Added in “you cannot change your designated dispatch coordinator for your registered facility without the prior approval of the EMC”.	To be consistent with the CGF application form and the market rules pertaining to GRFs.
	Changed “set out” to “described”.	To reflect that the Data Form for Generation Facility Registration required by the PSO is no longer set out in Appendix C of the GRF application form, but instead described there.
5	Deleted “if your facility is located outside of Singapore, the EMC may impose additional requirements for the registration of your facility”.	To reflect that it is not applicable to GSFs.
	Changed “set out” to “described”.	To reflect that the Data Form for Generation Facility Registration required by the PSO is no longer set out in Appendix C of the GRF application form, but instead described there.
	Changed “EMC” to “EMC’s”.	To correct a typographical error.
7	Rephrased to “this is only applicable if the facility is to be registered as a generation registered facility”.	To improve clarity.
8	Changed “attached as” to “described in”.	To reflect that the PSO Data Form for Generation Facility Registration is no longer attached as Appendix C of the GRF application form, but instead described in there.
9	Changed “set out” to “described”.	To reflect that the Data Form for Generation Facility Registration required by the PSO is no longer set out in Appendix C of the GRF application form, but instead described there.
11	Changed “Limited” to “Ltd”.	To align with the ACRA registered name of EMC: “Energy Market

		Company Pte Ltd”.
Appendix A	Changed “Generating Facilities” to “Generation Facility”.	To clarify that each row of the table is for one generation facility.  To be consistent with the defined term in the Market Rules.
Appendix B	Changed “APPENDIX” to “Appendix”.	To standardise the font in this appendix with the other appendices and forms.
Appendix C	Changed “APPENDIX” to “Appendix”.	To standardise the font in this appendix with the other appendices and forms.
	Changed “EMA” to “EMA’s”.  Added “a” in front of “GRF” and “GSF”.	To make editorial changes.
	Added in “above website at the”.	To clarify that the most up-to-date version of the form is available at the above-mentioned website stated in Appendix C.

## 8. INDUSTRY CONSULTATION

The concept paper was published for industry consultation on 16 September 2015, and the following comments were received from the PSO.

### Comments from PSO

1. *To register as GSF/GRF, EMC currently requires ‘30 business days for generation facility registration’ (refer to the EMC registration guide). This may not be practical as commissioning tests of small DG and PV installations may take only a few days. To meet the 30 business day requirement, MPs of these facilities could potentially need to disconnect their generation facilities for 30 days after completion of commissioning activities. This would not be acceptable. Please review the registration guide to significantly shorten the registration process and update accordingly.*
2. *Outage co-ordination procedure stipulated in Chapter 5 Section 7 is only applicable to GRFs with ‘firmed capacity’. Please remove the last paragraph added to Chapter 2 Section 5.3.5.4 as Chapter 5 Section 7 already has provision that requires PSO’s approval.*

### EMC’s Response

1. MPs of CGFs do not need to wait till the completion of their CGF’s commissioning tests in order to submit their application to register the facility as a GSF/GRF. They can submit the GSF/GRF registration form before the expiry date of the CGF’s registration. In addition, the “30 business days” referred to above is EMC’s estimated processing time, but does not apply to all cases. If the standing data for a CGF is similar to that for its subsequent registration as a GSF/GRF, the time required will be shorter. EMC and PSO have always worked closely together to minimise disruptions to the MPs.
2. We have deleted the clause in section 5.3.5 of Chapter 2 as proposed by PSO.

## 9. LEGAL SIGN-OFF

The text of the proposed rule and market manual modifications in Annexes 1-3 has been vetted by EMC's external legal counsel, whose opinion is that the proposed rule modifications reflect the intent of the rule modification proposal as expressed in Sections 6 and 7 of this paper.

## 10. RCP'S DECISION AT THE 83<sup>RD</sup> RCP MEETING

Regarding the proposal to implement a check in EMC's market system to exclude a former CGF from participating in the real-time markets, the RCP requested for EMC to clarify with SP Services on their procedures and the actual transactions that would take place in the event that a former CGF injects electricity into, or withdraws electricity from, the grid. If required, EMC would also check with EMA on how to handle this issue.

The RCP also suggested that EMC look into setting an appropriate deadline in the market rules/manual for a CGF registration expiry date to be extended or for the CGF to be registered as a GRF or a GSF, so that the relevant parties have the required lead time to proceed with the deregistration/removal of the CGF where necessary. EMC agreed to follow up on the above-mentioned issues.

In relation to the review of the market rules and the market manuals for the registration of CGFs, the RCP **unanimously supported** the proposed modifications to the market rules and the market manuals as set out in **Annexes 1 - 3**.

## 11. RECOMMENDATIONS

The RCP unanimously recommends that the EMC Board:

- (a) **adopt** the proposed modifications to the Market Rules and the Market Manuals as set out in **Annexes 1 - 3**;
- (b) **seek** the EMA's approval of the proposed modifications to the Market Rules and the Market Manuals as set out in **Annexes 1 - 3**; and
- (c) **recommend** that the proposed modifications to the Market Rules and the Market Manuals come into force **one business day** after the date on which the EMA's approval is published by the EMC.

## Annex 1: Proposed Rule Modifications

<b>Existing Market Rules</b> <b>(As at 01 Jul 2015)</b> (Includes rule changes in progress which are represented by double-underlined text) <sup>6</sup>	<b>Proposed Rule Changes</b> (Deletions represented by strikethrough text and additions represented by double-underlined text)	<b>Reasons for modification</b>
<b>CHAPTER 2 - PARTICIPATION</b>	<b>CHAPTER 2 - PARTICIPATION</b>	
<p>1.2 <u>MARKET PARTICIPANT REGISTRATION AND MARKET SUPPORT SERVICES LICENSEE AUTHORISATION</u></p> <p>1.2.1 No person, other than a <i>market support services licensee</i>, shall participate in the <i>wholesale electricity markets</i> or cause or permit any <i>physical service</i> to be conveyed into, through or out of the <i>transmission system</i> unless:</p> <p>...</p> <p>1.2.1.2 subject to sections 5.1.2 to 5.1.7, 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>, or as a <i>generation settlement facility</i> pursuant to section 5.2, 5.3 or 5.4 as the case may be.</p>	<p>1.2 <u>MARKET PARTICIPANT REGISTRATION AND MARKET SUPPORT SERVICES LICENSEE AUTHORISATION</u></p> <p>1.2.1 No person, other than a <i>market support services licensee</i>, shall participate in the <i>wholesale electricity markets</i> or cause or permit any <i>physical service</i> to be conveyed into, through or out of the <i>transmission system</i> unless:</p> <p>...</p> <p>1.2.1.2 subject to sections 5.1.2 to <del>5.1.7</del><u>5.1.8</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>, or as a <i>generation settlement facility</i> pursuant to section 5.2, 5.3 or 5.4 as the case may be.</p>	<p>To provide that the facility registration requirements referred to in section 1.2.1.2 shall also be subject to section 5.1.8.</p>

<sup>6</sup> This refers to the proposed rule changes for the Automatic Penalty Scheme.

<p style="text-align: center;"><b>Existing Market Rules</b> (As at 01 Jul 2015) (Includes rule changes in progress which are represented by double-underlined text)<sup>6</sup></p>	<p style="text-align: center;"><b>Proposed Rule Changes</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>5.1 <u>REQUIREMENT FOR REGISTRATION</u></b></p> <p>5.1.1 No person, other than a <i>market support services licensee</i>, shall participate in the <i>real-time markets</i> or cause or permit any <i>physical service</i> to be conveyed into, through or out of the <i>transmission system</i> unless:</p> <p>...</p> <p>5.1.1.2 subject to sections 5.1.2 to 5.1.7, 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>, or as a <i>generation settlement facility</i> pursuant to section 5.2, 5.3 or 5.4 as the case may be.</p>	<p><b>5.1 <u>REQUIREMENT FOR REGISTRATION</u></b></p> <p>5.1.1 No person, other than a <i>market support services licensee</i>, shall participate in the <i>real-time markets</i> or cause or permit any <i>physical service</i> to be conveyed into, through or out of the <i>transmission system</i> unless:</p> <p>...</p> <p>5.1.1.2 subject to sections 5.1.2 to <del>5.1.7</del><u>5.1.8</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>, or as a <i>generation settlement facility</i> pursuant to section 5.2, 5.3 or 5.4 as the case may be.</p>	<p>To provide that the facility registration requirements referred to in section 5.1.1.2 shall also be subject to section 5.1.8.</p>
<p><b><u>[NEW SECTION]</u></b></p>	<p><u>5.1.8 Notwithstanding sections 5.1.3 to 5.1.7, a person, other than a <i>market support services licensee</i>, that intends to participate in the <i>real-time markets</i> or cause or permit a <i>physical service</i> to be conveyed into, through or out of the <i>transmission system</i> from a <i>generation facility</i> may first register such <i>generation facility</i> as a <i>commissioning generation facility</i> under section 5.3 in pursuance of the subsequent registration of the <i>generation facility</i></u></p>	<p>To provide that a person who intends to participate in the real-time markets or cause or permit a physical service to be conveyed into, through or out of the transmission system from a generation facility may first register</p>

<b>Existing Market Rules</b> <b>(As at 01 Jul 2015)</b> (Includes rule changes in progress which are represented by double-underlined text) <sup>6</sup>	<b>Proposed Rule Changes</b> (Deletions represented by strikethrough text and additions represented by double-underlined text)	<b>Reasons for modification</b>
	<u>as a generation registered facility or a generation settlement facility.</u>	such facility as a commissioning generation facility under section 5.3 before pursuing a subsequent registration of that facility as a generation registered facility or generation settlement facility. The foregoing is notwithstanding the other requirements in sections 5.1.3 to 5.1.7.
<p><b>5.1A REGISTRATION PROCESS</b></p> <p>5.1A.1 Each applicable <i>market participant</i> shall apply for:</p> <p>5.1A.1.1 the registration of its facility as a <i>registered facility</i> and the registration of a <i>market participant</i> as the <i>dispatch coordinator</i> for such facility in accordance with section 5.2; or</p> <p>5.1A.1.2 the registration of its facility as a <i>generation settlement facility</i> in accordance with section 5.4,</p> <p>as the case may be, and in accordance with the</p>	<p><b>5.1A REGISTRATION PROCESS</b></p> <p>5.1A.1 Each applicable <i>market participant</i> shall apply for:</p> <p>5.1A.1.1 the registration of its facility as a <i>registered facility</i> and the registration of a <i>market participant</i> as the <i>dispatch coordinator</i> for such facility in accordance with section 5.2;<del>or</del></p> <p>5.1A.1.2 the registration of its facility as a <i>generation settlement facility</i> in accordance with section 5.4;<u> or</u></p> <p><u>5.1A.1.3 the registration of its facility as a</u></p>	To also provide that each applicable market participant shall apply for the registration of its facility as a commissioning generation facility and the registration of a market participant as the facility's dispatch coordinator if the facility is required to be registered as a

<p style="text-align: center;"><b>Existing Market Rules</b> (As at 01 Jul 2015) (Includes rule changes in progress which are represented by double-underlined text)<sup>6</sup></p>	<p style="text-align: center;"><b>Proposed Rule Changes</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>process described in the applicable <i>market manual</i>.</p>	<p style="text-align: center;"><u><i>commissioning generation facility</i></u> and, if the facility is required or intended to be registered as a <u><i>generation registered facility</i></u>, the <u>registration of a market participant as the dispatch coordinator for such facility</u>, in accordance with section <u>5.3</u>,</p> <p>as the case may be, and in accordance with the process described in the applicable <i>market manual</i>.</p>	<p>generation registered facility in accordance with section 5.3 and in accordance with the process described in the applicable market manual.</p>
<p><b>5.3 REGISTRATION OF COMMISSIONING GENERATION FACILITIES</b></p> <p>5.3.1 <i>A market participant</i></p> <p>5.3.1.1 shall apply to register a <i>commissioning generation facility</i> having a name-plate rating of 10 MW or more; or</p> <p>5.3.1.2 shall apply to register a <i>commissioning generation facility</i> having a name-plate rating of greater than 1MW and less than 10MWs, if that <i>market participant</i> intends such <i>generation facility</i> to be subject to <i>dispatch</i> by the <i>PSO</i>;</p> <p>on a transitional basis in accordance with the</p>	<p><b>5.3 REGISTRATION OF COMMISSIONING GENERATION FACILITIES</b></p> <p>5.3.1 <i>A market participant</i> <u>shall apply to register a <i>commissioning generation facility</i></u>:</p> <p>5.3.1.1 <u>if the facility is required or intended to be registered as a <i>generation registered facility</i> under section 5.1</u> <del>shall apply to register a <i>commissioning generation facility</i> having a name-plate rating of 10 MW or more; or</del></p> <p>5.3.1.2 <u>if the facility is required or intended to be registered as a <i>generation settlement facility</i> under section 5.1,</u></p>	<p>To provide for the requirement for a market participant to apply to register a commissioning generation facility on a transitional basis during the period it is going through commissioning tests, if the facility is required or intended to be registered as a generation registered</p>

<p align="center"><b>Existing Market Rules</b> (As at 01 Jul 2015) (Includes rule changes in progress which are represented by double-underlined text)<sup>6</sup></p>	<p align="center"><b>Proposed Rule Changes</b> (Deletions represented by strikethrough text and additions represented by double-underlined text)</p>	<p align="center"><b>Reasons for modification</b></p>
<p>applicable <i>market manual</i> for the purpose of being permitted to convey a <i>physical service</i> into, through or out of the <i>transmission system</i> or of participating in the <i>real-time markets</i> during the period in which the <i>commissioning generation facility</i> is undergoing the commissioning tests referred to in section 5.3.4.</p>	<p align="center"><u>and is required to cause or permit any physical service to be conveyed into, through or out of the transmission system.</u> <del>shall apply to register a commissioning generation facility having a name plate rating of greater than 1MW and less than 10MWs, if that market participant intends such generation facility to be subject to dispatch by the PSO;</del></p> <p>on a transitional basis in accordance with the applicable <i>market manual</i> for the purpose of being permitted to convey a <i>physical service</i> into, through or out of the <i>transmission system</i> or of participating in the <i>real-time markets</i> during the period in which the <i>commissioning generation facility</i> is undergoing the commissioning tests referred to in section 5.3.4.</p>	<p>facility.</p> <p>To provide for the requirement for a market participant to apply to register a commissioning generation facility on a transitional basis during the period it is going through commissioning tests, if the facility is required or intended to be registered as a generation settlement facility and needs to cause or permit any physical service to be conveyed into, through or out of the transmission system.</p>
<p>5.3.2 The <i>EMC</i> shall register a <i>commissioning generation facility</i> on a transitional basis if it is satisfied that the requirements of the applicable <i>market manual</i> have been met and shall issue to the <i>market participant</i> a notification of transitional registration. Any such registration shall expire upon completion by the</p>	<p>5.3.2 The <i>EMC</i> shall register <u>a facility as a commissioning generation facility</u> on a transitional basis if <del>the EMC</del> it is satisfied that the requirements of <u>the market rules and</u> the applicable <i>market manual</i> have been met and shall issue to the <i>market participant</i> a notification of transitional registration. <del>Any</del><u>Each</u></p>	<p>To generally clarify the provision in section 5.3.2 of Chapter 2.</p> <p>To clarify that the EMC shall register the facility as a commissioning generation facility if it is</p>

<p align="center"><b>Existing Market Rules</b> (As at 01 Jul 2015) (Includes rule changes in progress which are represented by double-underlined text)<sup>6</sup></p>	<p align="center"><b>Proposed Rule Changes</b> (Deletions represented by strikethrough text and additions represented by double-underlined text)</p>	<p align="center"><b>Reasons for modification</b></p>
<p><i>commissioning generating generation facility</i> of the final commissioning test submitted to and approved by the <i>PSO</i> pursuant to section 5.3.4.</p>	<p>such registration shall expire upon completion by the <i>commissioning <del>generating</del>—generation facility</i> of the final commissioning test submitted to and approved by the <i>PSO</i> pursuant to section 5.3.4.</p>	<p>satisfied that the applicable market rules have been met.</p> <p>To clarify that each such registration shall expire upon completion by the commissioning generation facility of the final commissioning test.</p> <p>To correct a typographical error.</p>
<p>5.3.3 Upon expiry of the registration referred to in section 5.3.2, a <i>market participant</i> shall not participate in the <i>real-time markets</i> nor cause or permit any <i>physical service</i> to be conveyed into, through or out of the <i>transmission system</i> in respect of a former <i>commissioning generation facility</i> unless such former <i>commissioning generation facility</i> has been registered in accordance with section 5.2.</p>	<p>5.3.3 Upon expiry of the registration referred to in section 5.3.2, a <i>market participant</i> shall not participate in the <i>real-time markets</i> nor cause or permit any <i>physical service</i> to be conveyed into, through or out of the <i>transmission system</i> in respect of a former <i>commissioning generation facility</i> unless such former <i>commissioning generation facility</i> has been registered in accordance with section 5.2 <u>or 5.4</u>.</p>	<p>To also provide that a market participant, which is a former commissioning generation facility, shall not participate in the real-time markets nor cause or permit any physical service to be conveyed into, through or out of the transmission system, unless it has been registered in accordance</p>

<b>Existing Market Rules</b> <b>(As at 01 Jul 2015)</b> (Includes rule changes in progress which are represented by double-underlined text) <sup>6</sup>	<b>Proposed Rule Changes</b> (Deletions represented by strikethrough text and additions represented by double-underlined text)	<b>Reasons for modification</b>
		with section 5.4, which relates to the registration of generation settlement facilities.
<p>5.3.5 The detailed commissioning test plans referred to in section 5.3.4.2 shall be submitted to the <i>PSO</i> for approval and the tests referred to in such plans as are approved by the <i>PSO</i> and shall be scheduled in accordance with the procedures applicable to the <i>outage</i> coordination process described in section 7 of Chapter 5, with any applicable <i>market manual</i> and with the <i>system operation manual</i> and shall include:</p> <p>5.3.5.1 the time required for the <i>commissioning generation facility</i> to <i>synchronise</i> to and <i>desynchronise</i> from the <i>PSO controlled grid</i>;</p> <p>5.3.5.2 energy and reactive output levels;</p> <p>5.3.5.3 the timing of and ramp rates associated with changes in energy and reactive output levels; and</p> <p>5.3.5.4 run-back or trip tests for the <i>commissioning generating generation facility</i>.</p>	<p>5.3.5 The detailed commissioning test plans referred to in section 5.3.4.2 shall be submitted to the <i>PSO</i> for approval <del>and the tests referred to in such plans as are approved by the <i>PSO</i> and shall be scheduled in accordance with the procedures applicable to the <i>outage</i> coordination process described in section 7 of Chapter 5, with any applicable <i>market manual</i> and with the <i>system operation manual</i></del> and shall, <u>if determined by the <i>PSO</i> to be required</u>, include:</p> <p>5.3.5.1 the time required for the <i>commissioning generation facility</i> to <i>synchronise</i> to and <i>desynchronise</i> from the <i>PSO controlled grid</i>;</p> <p>5.3.5.2 <del>energy</del><u>energy</u> and reactive <u>power</u> output levels;</p> <p>5.3.5.3 the timing of and ramp rates associated with changes in <del>energy</del><u>energy</u> and reactive <u>power</u> output levels; and</p> <p>5.3.5.4 run-back or trip tests for the</p>	<p>To remove the requirement for scheduling of commissioning test plans in accordance with the procedures applicable to the outage coordination process described in section 7 of Chapter 5.</p> <p>To provide that the detailed commissioning test plans shall include the information / subject matter set out in sections 5.3.5.1 to 5.3.5.4, but only if determined by the <i>PSO</i> to be required.</p> <p>To amend the existing references of “reactive output” to “reactive power output”.</p>

<b>Existing Market Rules</b> <b>(As at 01 Jul 2015)</b> (Includes rule changes in progress which are represented by double-underlined text) <sup>6</sup>	<b>Proposed Rule Changes</b> (Deletions represented by strikethrough text and additions represented by double-underlined text)	<b>Reasons for modification</b>
	<i>commissioning <del>generating</del> generation facility.</i>	To italicise terms which are defined in Chapter 8.  To correct a typographical error.
5.3.6 Except as otherwise provided in this section 5.3 or in the notification of transitional registration applicable to the <i>commissioning generation facility</i> , where a <i>commissioning generation facility</i> has been registered by the EMC pursuant to section 5.3.2, the EMC shall, while such registration is in effect, <u>other than for the purposes of section 3.7.3 of Chapter 5 and Appendix 5D,</u> treat the <i>commissioning generation facility</i> as a <i>registered facility</i> for all purposes under these <i>market rules</i> , including with respect to the submission of <i>dispatch data</i> and <i>settlement</i> .	5.3.6 Except as otherwise provided in this section 5.3 or in the notification of transitional registration applicable to the <i>commissioning generation facility</i> , where a <i>commissioning generation facility</i> has been registered by the EMC pursuant to section 5.3.2, the EMC shall, while such registration is in effect, other than for the purposes of section 3.7.3 of Chapter 5 and Appendix 5D, treat the <i>commissioning generation facility</i> as a: <p><u>5.3.6.1 <i>generation registered facility</i> for all purposes under these <i>market rules</i>, including with respect to the submission of <i>dispatch data</i> and <i>settlement</i>, where the application for the registration of such <i>commissioning generation facility</i> is made under section 5.3.1.1; or</u></p> <p><u>5.3.6.2 <i>generation settlement facility</i> for all purposes under these <i>market rules</i>,</u></p>	To differentiate between a <i>commissioning generation facility</i> which has been registered by the EMC that should be treated as a <i>generation registered facility</i> and one that should be treated as a <i>generation settlement facility</i> .

<b>Existing Market Rules</b> <b>(As at 01 Jul 2015)</b> (Includes rule changes in progress which are represented by double-underlined text) <sup>6</sup>	<b>Proposed Rule Changes</b> (Deletions represented by strikethrough text and additions represented by double-underlined text)	<b>Reasons for modification</b>
	<u>where the application for the registration of such commissioning generation facility is made under section 5.3.1.2.</u>	
<b>CHAPTER 8 - DEFINITIONS</b>	<b>CHAPTER 8 - DEFINITIONS</b>	
1.1.30 <i>commissioning generation facility</i> means a <i>generation facility</i> located within Singapore that is either (a) newly constructed; or (b) significantly redesigned or rebuilt and is designated by the <i>EMC</i> as a <i>commissioning generation facility</i> and, in either case, that has not yet completed the commissioning tests referred to in section 5.3.4.2 of Chapter 2;	1.1.30 <i>commissioning generation facility</i> means a <i>generation facility</i> located within Singapore that <u>(a) is either (a) newly constructed, or (b) significantly redesigned, or significantly rebuilt;</u> <u>(b) and is designated, registered</u> by the <i>EMC</i> as a <i>commissioning generation facility</i> ; and, <del>in either case, that (c) has not yet completed the</del> commissioning tests referred to in section 5.3.4.2 of Chapter 2;	To generally clarify the definition of commissioning generation facility.  To clarify that commissioning generation facilities are registered, as opposed to designated, by the EMC.

**Annex 2:**

Marked-up changes to the Application Form for Commissioning Generation Facility Registration by a Market Participant, Market Administration Market Manual (Registration and Authorisation Part 3 of 4)

Based on the  
~~Singapore Electricity Market Rules~~

# Application form ~~For Registration of~~ for Commissioning Generation Facility Registration by a Market Participant

including explanatory notes.

**IMPORTANT:** Please read this important information 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?

Energy Market Company Pte Limited (“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* or a *generation settlement facility* in accordance with the *market rules*.

The *EMC* is licensed by the Energy Market Authority (“the *Authority*”) to operate the *wholesale electricity marketmarkets* (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 market-markets*. You must complete and submit this form to apply to have a facility registered by the *EMC* if you wish to: convey any physical services into, through or out of the transmission system and that facility is required or permitted to be registered under the market rules.

- ~~participate in the wholesale electricity market and/or;~~
- ~~convey any physical services into, through or out of the transmission system and~~
- ~~subject your generation facility of over 1MW (as rated in its name plate) to dispatch by the PSO whilst the facility is undergoing commissioning tests.~~

### Why did EMC develop this form?

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

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

You must be registered as a market participant before you are eligible to apply for registered facility status? registration of your facilities.

You must have at least

However, if you are only granted conditional registration status in the as a market participant-, you may also apply for registration process before the EMC can process of your application for facilityfacilities, but your facilities will not be registered unless you become registered as a market participant within the relevant conditional registration deadline.

### What are the types of **generation** facility registration?

The three types of ~~registered facilities~~ generation facility registration are:

- Generation registered facility (you need to complete a separate form for this type of registration)
- Generation settlement facility (you need to complete a separate form for this type of registration)
- ~~Generation registered facility~~
- Commissioning ~~generating~~ generation facility.

You should register your generation facility as a **commissioning generation facility**:

- a) if you have a generation the facility of 10MW is required or more (intended to be registered as rated a generation registered facility, or
- b) if the facility is required or intended to be registered as a generation settlement facility, and is required to cause or permit any physical service to be conveyed into, through or out of the transmission system.

on a transitional basis for the purpose of permitting the facility to convey a physical service into, through or out of the transmission system or of participating in the real-time markets during the period in its name plate) which it is undergoing the commissioning tests. You should register as a **commissioning generation facility** if you have a generation facility of 1MW or more but less than 10MW (as rated in its name plate) and you wish to subject it to dispatch by the PSO whilst the facility is undergoing commissioning tests. This registration is a transitional arrangement.

This application form is to be used for application for registration of a commissioning generation facility only. Subsequently, if you wish to proceed with the application of your facility as a generation registered facility or a generation settlement facility, you should use the Application form for Generation Facility Registration if you are registering this commissioned facility as a generation settlement facility or a generation registered facility by a Market Participant.

**When will you know the outcome of my application?**

The EMC will notify you in writing of the outcome within 30 business days of the receipt of EMC being satisfied that your fully completed application meets all the requirements for commissioning generation facility registration form or any further information or clarification requested by the EMC, whichever is under the later (unless you market rules, the applicable market manuals and the EMC have agreed a longer time for this process) system operation manual. If your application is declined, the notification will identify why this was the case. -A completeduly and accurateaccurately completed form will helpexpedite the EMC to processEMC's processing of your participant registration application within the above stated period.

**What should you do if you have more than one facility to register?**

Please fill in a separate sets of formsform for each facility to be registered. To do this, you may wish to application for registration of a commissioning generation facility. You can download more formsadditional copies of the form from the EMC's website: at [www.emcsg.com](http://www.emcsg.com).

**Is there an application fee for your application to register your facility registration?**

There is no application fee payable for your application to register your facility registration.

**Summary of registration requirements for a commissioning generation facility (10MW and above or 1MW to less than 10MW and subject to PSO dispatch)**

The key requirements in the process for the registration of a *commissioning generation facility*

- ~~of 10MW or above (as rated in its name plate) or~~
- ~~1MW or more and less than 10MW (as rated in its name plate) and subject to PSO dispatch~~

are ~~set out~~outlined in the table below:

A	<p><b>Meet <del>pre-registration</del><u>the EMC's</u> requirements</b></p>	<p>You must <del>be sure you can satisfy</del><u>ensure that</u></p> <ul style="list-style-type: none"> <li>• <u>your facilities and equipment meet</u> all applicable technical requirements <u>set forth in the market rules, any applicable market manuals or the system operation manual; and</u></li> <li>• <u>you are able to perform all the functions and obligations applicable to you under the market rules, the market manuals or the system operation manual.</u></li> </ul> <p><u>If before submitting your registration application. The EMC may test and inspect you wish to subsequently register your equipment to ensure compliance. Successful completion of these tests is facility as a pre-condition for registration. You must also ensure you have adequately qualified staff and generation registered facility, you shall identify your proposed dispatch coordinator, who is authorised to submit dispatch data for your registered facility. You can. You cannot change your designated dispatch coordinator only withfor your facility without the EMC's prior approval. of the EMC.</u></p>
B	<p><b>Meet the PSO's requirements</b></p>	<p>You must complete the PSO's '<u>Data Form for Generation Facility Data Registration Form</u>', meeting all <del>their</del><u>the applicable</u> technical requirements and attaching any required documents during submission.</p>
C	<p><b><u>Meet metering requirements</u></b></p>	<p><u>You must secure the market support services licensee's written confirmation to the EMC that the market support services licensee is ready to submit all relevant settlement data required under the market rules for your facility to the EMC.</u></p>
CD	<p><b>Prepare and attach required documents</b></p>	<p><u>As a pre-requisite for registration, you must attach; You must duly complete this application form in respect of your facility and provide all required supporting documents with your application, including the following:</u></p> <ul style="list-style-type: none"> <li>• <del>A certified true copy of your duly executed connection agreement with the transmission licensee for your facility.</del></li> <li>• <del>Identification of the physical services to be provided by the facility.</del></li> <li>• <del>A standing offer for each physical service to be provided by the facility.</del></li> <li>• <del>An undertaking that you have operational control and authority over the facility.</del></li> <li>• <u>A certified true copy of your duly executed market participant - market support services licensee agreement with the market support services licensee for your facility, if required by the EMC.</u></li> <li>• <u>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.</u></li> <li>• <u>An original duly completed PSO Data Form for Generation Facility Registration required by the PSO (as described in</u></li> </ul>

	<u>Appendix C of this application form) for your facility.</u>
<u>E</u>	<u>Standing Offer Data</u> If your facility is to be registered as a <i>generation registered facility</i> subsequently, you must comply with section D below. For the avoidance of doubt, if your facility is to be registered as a <i>generation settlement facility</i> subsequently, you are not required to comply with section D below.
<u>DE</u>	<p>• <del>The EMC shall approve your registration when it is satisfied that: Your facility is capable of operating will be registered as described in your</del>  <del>registration (the EMC may consult with the PSO).</del></p> <p>• <del>The PSO has approved the facility's standing capability data.</del></p> <p><del>If the EMC is satisfied that you meet the requirements of a commissioning generation facility, we will register you as one. If the EMC is satisfied that your facility meets all the requirements for such facility registration under the market rules, the applicable market manuals or the system operation manual. The EMC will advise 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. If your facility is located outside Singapore, you may have to meet additional the EMC requirements.</del></p>

**How can I ~~find~~ you obtain more information?**

In addition to this form and the *market rules*, you ~~can find~~ may obtain more information by contacting the EMC Market Administration Team by telephone at +65 6779 3000. Alternatively, you may visit the EMGEMC's website at http: [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:** \_\_\_\_\_

**A.B. REGULATORY DETAILS**

1. **What ~~Authorized activities relating to electricity under your~~ electricity licence(s) for the ~~wholesale electricity market do you hold?~~**

**Note:** You may only tickcheck one licence on this form. You should complete a separate form if you intend to perform different functions in or more of the ~~wholesale~~ following boxes indicating the type of activities authorised under your electricity ~~market.~~ licence(s).

- ~~Generator~~generate electricity ~~licence~~
- ~~Retailer~~retail electricity ~~licence~~
- ~~Transmission~~transmit electricity ~~licence~~
- ~~An~~transmit electricity ~~licence~~ other than a generator ~~for~~ or retailer licence permitting the holder to trade in the ~~on~~ behalf of a transmission licensee
- ~~wholesale~~import electricity ~~market~~
- ~~I~~We have been exempted by the Authority from the need to hold an ~~electricity licence~~
- ~~export~~ export electricity
- ~~trade in~~ trade in wholesale electricity market

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

State activities exempted from licensing requirement: \_\_\_\_\_

Exemption order number(s): \_\_\_\_\_

2. **What is the name ~~plate~~ capacity rating of the ~~commissioning generation~~ facility?**

- 1 ~~to~~ MW or more but less than 10 MW
- 10 MW ~~and above~~ or more

<sup>3</sup>

3. **Please indicate the type of generation facility registration you will subsequently be applying for.**

- generation registered facility
- generation settlement facility

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

4. Derogation requested:  Yes  No

~~4.~~ 5. Wholesale Electricity Market Settlement settlement account

B.C. FACILITY DETAILS

56. Name of the facility: \_\_\_\_\_

67. Name of owner of the facility: \_\_\_\_\_

7. ~~Physical address~~

8. Location of the facility:

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_

8. \_\_\_\_\_

9. Meter ID number \_\_\_\_\_ (s): \_\_\_\_\_

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

10. 9. Designated *Dispatch coordinator for the facility*:

\_\_\_\_\_  
(This is only applicable if the facility is to be registered as a *generation registered facility* subsequently.)

11. Contacts of the *dispatch coordinator for the facility* \_\_\_\_\_  
(*Market Participant* authorised to submit *dispatch data* with respect to (This is only applicable if the facility is to be registered *facility*))

**40.** ~~Designated dispatch coordinator contacts for the~~ as a generation registered facility:  
subsequently.)

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

**C. 12.** Physical service intended to be provided from the facility:

Energy

Reserve  (Primary  Secondary  Contingency )

Regulation

**13.** Expected start date of commissioning tests:

Expected completion date of commissioning tests:

**14.** Other authorisations/approvals granted by the Authority

(For facilities other than intermittent generation facilities.)

- Approval for classification of your facility as an embedded generation facility for the purposes of net treatment on non-reserve charges:

Yes  No

(If the answer to the above is no, is such approval being sought?  Yes  No)

- Approval for your facility to be assigned to an EGF group to be, or an EGF group which has been, granted price neutralisation:

Yes  No

(If the answer to the above is no, is such approval being sought?  Yes  No)

**15.** Intermittent generation facilities

(For registration of commissioning generation facility that is comprised of one or more intermittent generation facilities.)

- Is your facility comprised of one or more intermittent generation facilities?  Yes  No

(If yes, is your facility comprised only of intermittent generation facilities?  Yes  No)

- Is your facility comprised only of embedded intermittent generation facilities?  Yes  No

#### **D. STANDING OFFER DATA (~~For each generation commissioning facility~~)**

(This section is only applicable if your facility is to be registered as a generation registered facility subsequently.)

Please provide ~~'a standing offer'~~ offer for each physical service to be provided from your facility to be registered as a commissioning generation facility. Each such standing offer for your facility must be submitted to the EMC in the data for energy in a CSV file format to Helpdesk@emcsg.com . For details please refer to the required by and in accordance with the EMC's MARKET OPERATIONS MARKET MANUALMarket Operations Market Manual on Standing Offers, Offer Variations and Standing Data (Chapter 6 ~~market rules~~)Market Rules).

#### **E. ~~D.~~ GENERATION FACILITY REGISTRATION (FOR SUBMISSION TO THE PSO)**

Please ~~see attached PSO data form. The form shall be considered complete only if all the the PSO Data Form for Generation Facility Registration which is described in Appendix C of this application form. All relevant sections are in the form must be duly completed and relevant. The duly completed form must be sent to the EMC together with all supporting documentation is attached.~~

~~E.~~

**F. CHECKLIST OF SUPPORTING DOCUMENTS REQUIRED**

You must attach ~~certified true copies of~~ the following documents to your application form:

- ~~Copy A certified true copy of metering agreement with the MSSL.~~
- ~~Copy of your duly executed connection agreement with the transmission licensee for your facility.~~
- ~~An undertaking stating that adequate personnel and organizational arrangements are met for that facility, which include reliable services during normal and emergency situations.~~
- ~~A certified true copy of your duly executed market participant - market support services licensee agreement with the market support services licensee for your facility, if required by the EMC.~~
- ~~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 PSO Data Form for Generation Facility Registration required by the PSO (as described in Appendix C of this application form) for your facility.~~

=====

**FOR EMC OFFICIAL USE**

1. Assigned MNN number(s) for this ~~registered~~ facility \_\_\_\_\_:

\_\_\_\_\_

**INFORMATION PROVIDED BY THE MSSL TO THE EMC**

2. Respective RQM (as defined by MSSL) ~~id no~~ ID Number(s) \_\_\_\_\_:

\_\_\_\_\_

2.1. ~~Physical address~~ Location of the facility \_\_\_\_\_:

\_\_\_\_\_

**G. COVENANT AND DECLARATION**

~~I/We/I, the undersigned applicant(s), having read and fully understood the Singapore market rules, the terms of this application form, the applicable market manuals, the system operation manual, the Electricity Market Rules (the 'Rules'), the Companies Act (Chapter 50) (the "CA"), and any other applicable laws, codes, rules, procedures or policies that are relevant to or regulate the Singapore Electricity Market or the wholesale electricity industry (markets collectively the 'Laws/Regulations'), and/or having had the benefit of relevant independent legal advice, hereby apply to register the relevant facilities/our/my facility as a commissioning generation facility as stated hereinabove under the Rules and covenant to comply with and be legally bound by the Electricity Act (Chapter 89A) of Singapore, the Rules, the CA and the Laws (as the same may be amended from time to time) in relation to such facilities this application form.~~

~~I/We/I hereby agree to be bound by, and to comply with, all the undersigned applicant(s), Regulations which may be applicable to us/me, our/my registration application herein, our/my facility and our/my participation in the relevant wholesale electricity markets.~~

~~We/I further hereby declare that the information provided by me/us in us/me (or on our/my behalf) in or in connection with this form registration application is both true, complete and accurate and not misleading or omitting any material particular (to the best of my/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 Act, the Rules, the CA, or the Laws/Regulations, in the event that such information is found to be untrue, misleading or inaccurate by the relevant authorities in any material particular.~~

~~I/We, the undersigned applicant(s), 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 Rules market rules and any applicable market manual, in the event that this application for 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 the \_\_\_\_\_  
 \_\_\_\_\_ (Name of Applicant)

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

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

Position: \_\_\_\_\_

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

**G**Name of officer: \_\_\_\_\_

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

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

#### **H. EMC'S DISCLAIMER**

Energy Market Company Pte ~~Limited~~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.

# Generation Facility Registration

Appendix A : Metering Details (~~per~~  
**Generation Licensee**)

S/No	<b>Generating Facilities</b> <u>Generation Facility Name</u>	Meter Type (Main, Check or Auxiliary)	Meter Serial Number	Station Load Meter Name (Please show tagging, if any)	Station Load Meter Serial Number	Market Network Node (assigned by <u>the</u> EMC)
1						
2						
3						
4						

Note:

Please tag the station loads (if any) to the **generating facilities**generation facility.

Appendix B

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

---

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 Commissioning Generation Facility Registration by a Market Participant dated [state date] for the registration of [identify the relevant generation facility here] ("the Facility") as a *commissioning generation 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 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: \_\_\_\_\_

---

\* Delete where inapplicable.

Appendix C

Power System Operator (PSO)

Data Form for Generation Facility Registration

~~For  
Generation Facility Registration<sup>2</sup>  
(Revision 15-Dec-2013)~~

- 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).
- For registration of a generation facility which is required or intended to be registered as a *generation registered facility*, please use Appendix 3A of the form.
- For registration of a generation facility which is required or intended to be registered as a *generation settlement facility*, please use Appendix 3C of the form.
- For registration of an intermittent generation facility (PV), please use Appendix 3D of the form.
- 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.

---

<sup>2</sup>~~This Power System Operator (PSO) Data Form For Generation Facility Registration is not part of the Market Manual which this application form forms a part of. A copy of that form (being the current version as of the date of *publication* of this Application Form For Registration of Commissioning Generation Facility) is appended hereto for your convenient reference only. Please note that the Power System Operator (PSO) Data Form For Generation Facility Registration 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 time of your application.~~

**Annex 3:**

Marked-up changes to the Application Form for Generation Facility Registration by a Market Participant, Market Administration Market Manual (Registration and Authorisation Part 2 of 4)

# **Application form for Generation Facility Registration by a Market Participant**

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* or a *generation settlement 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 registered by the EMC if you wish to convey any *physical services* into, through or out of the *transmission system* and that facility is required or permitted to be registered under the *market rules*.

#### **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 must be registered as a *market participant* before you are eligible to apply for registration of your facilities.

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

#### **What are the types of generation facility registration?**

The three types of *generation facility* registration are:

- *Generation registered facility*
- *Generation settlement facility*
- *Commissioning generation facility* (you need to complete a separate form for this type of registration).

This application form is to be used for application for registration of either a *generation registered facility* or a *generation settlement facility* only. If you wish to register your facility as a *commissioning generation facility*, please use the Application form for ~~Registration of Commissioning Generation Facility~~ [Registration by a Market Participant](#).

#### Generation Registered Facility

If all the *generation facilities* (other than *intermittent generation facilities*) at the same *generating station* together have an aggregate name-plate rating of 10 MW or more, all such *generation facilities* must be registered as either a single *generation registered facility* or two or more *generation registered facilities* in accordance with the *market rules*. The foregoing shall not apply to *intermittent generation facilities*.

A *generation registered facility* is subject to *dispatch* by the PSO. A *generation registered facility* shall at all times have a valid *standing offer* for each *physical service* that it intends to provide in the *real-time markets*.

#### Generation Settlement Facility

A *generation settlement facility* is registered for the delivery of *energy* only and is not subject to *dispatch* by the PSO.

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If all the *generation facilities* (other than *intermittent generation facilities*) at the same *generating station* together have an aggregate name-plate rating of 1 MW or more but less than 10 MW, all such *generation facilities* must be registered as either a single *generation settlement facility* or two or more *generation settlement facilities* in accordance with the *market rules*. But if any of such *generation facility* is intended to be subject to *dispatch* by the *PSO*, that *generation facility* must be registered as a *generation registered facility* instead. The foregoing shall not apply to *intermittent generation facilities*.

#### Intermittent Generation Facilities as Generation Settlement Facilities

If you intend to participate in the *real-time markets* or cause or permit a *physical service* to be conveyed into, through or out of the *transmission system* from one or more *intermittent generation facilities*, such *intermittent generation facilities* (regardless of their respective or aggregate name-plate ratings) must be registered as one or more *generation settlement facilities*, unless such registration requirements are waived by the *Authority*.

#### **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 *generation 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.

#### **What should you do if you have more than one facility to register?**

Please fill in a separate form for each application for registration of a *generation registered facility* or a *generation settlement facility*. You can download additional copies of the form from the *EMGEMC's* website at [www.emcsg.com](http://www.emcsg.com).

#### **Is there an application fee for your application to register your facility?**

There is no application fee payable for your application to register your facility.

## Summary of registration requirements for a generation registered facility

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

<b>A</b> <b>Meet the EMC's requirements</b>	<p>You must ensure that</p> <ul style="list-style-type: none"> <li>• your facilities and equipment meet 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>If your facility is located outside of Singapore, the EMC may impose additional requirements for the registration of your facility. <u>You cannot change your designated dispatch coordinator for your registered facility without the prior approval of the EMC.</u></p>
<b>B</b> <b>Meet the PSO's requirements</b>	<ul style="list-style-type: none"> <li>• You must complete the PSO's Data Form for Generation 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 poses no threat to the <i>reliability</i> or <i>security</i> of the <i>PSO controlled system</i>.</li> </ul>
<b>C</b> <b>Meet metering requirements</b>	<p>You must secure the <i>market support services licensee's</i> written confirmation to the EMC that the <i>market support services licensee</i> is ready to submit all relevant <i>settlement</i> data required under the <i>market rules</i> for your facility to the EMC.</p>
<b>D</b> <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 duly executed <i>connection agreement</i> with the <i>transmission licensee</i> for your facility.</li> <li>• A certified true copy of your duly executed <i>market participant - market support services licensee</i> agreement with the <i>market support services licensee</i> for your facility, if required by the EMC.</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 Generation Facility Registration required by the PSO (as <del>set-out</del>described in <b>Appendix C</b> of this application form) for your facility.</li> </ul>
<b>E</b> <b>Standing Offer Data</b>	<p>You must comply with section D below.</p>
<b>F</b> <b>Registration as a generation registered facility</b>	<p>Your facility will be registered as a <i>generation 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>

## Summary of registration requirements for a generation settlement facility

The key requirements in the process for the registration of a *generation settlement facility* are outlined in the table below:

<b>A 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><del>If your facility is located outside of Singapore, the EMC may impose additional requirements for the registration of your facility.</del></p>
<b>B Meet the PSO's requirements</b>	<ul style="list-style-type: none"> <li>You must complete the <i>PSO's Data Form for Generation Facility Registration</i>, meeting all the applicable technical requirements and attaching any required documents during submission.</li> <li>The registration of your facility is subject to the <i>PSO</i> advising the <i>EMC</i> that such facility poses no threat to the <i>reliability</i> or <i>security</i> of the <i>PSO controlled system</i>.</li> </ul>
<b>C Meet metering requirements</b>	<p>You must secure the <i>market support services licensee's</i> written confirmation to the <i>EMC</i> that the <i>market support services licensee</i> is ready to submit all relevant <i>settlement</i> data required under the <i>market rules</i> for your facility to the <i>EMC</i>.</p>
<b>D 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 duly executed <i>connection agreement</i> with the <i>transmission licensee</i> for your facility.</li> <li>A certified true copy of your duly executed <i>market participant - market support services licensee agreement</i> with the <i>market support services licensee</i> for your facility.</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 Generation Facility Registration required by the <i>PSO</i> (as <del>set-out</del>described in <b>Appendix C</b> of this application form) for your facility.</li> </ul>
<b>E Registration as a generation settlement facility</b>	<p>Your facility will be registered as a <i>generation settlement facility</i> if the <i>EMC</i> 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 <i>EMC</i> will notify you of the terms and conditions of the registration in an official notice to you. If your application is declined, the <i>EMC</i> 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/EMC's](http://www.emcsg.com) website at [www.emcsg.com](http://www.emcsg.com).

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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 may check one or more of the following boxes indicating the type of activities authorised under your *electricity licence(s)*.

- generate electricity*
- retail electricity*
- transmit electricity*
- transmit electricity* for or on behalf of a *transmission licensee*
- import electricity*
- export electricity*
- trade in wholesale electricity market*

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

State activities exempted from licensing requirement: \_\_\_\_\_

Exemption order number(s): \_\_\_\_\_  
\_\_\_\_\_

2. **What type of facility registration are you applying for?**

- generation registered facility*       *generation settlement facility*

3. **Derogation requested:**                       Yes                       No

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

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

### C. FACILITY DETAILS

5. Name of the facility: \_\_\_\_\_

6. Name of owner of the facility: \_\_\_\_\_

7. Location of the facility: \_\_\_\_\_  
\_\_\_\_\_

8. Meter ID number(s): \_\_\_\_\_  
(Please also complete **Appendix A** of this application form.)

9. **Dispatch coordinator for the facility:** \_\_\_\_\_  
(~~For registration of~~ This is only applicable if the facility is to be registered as a generation registered facility-only.)

10. **Contacts of the dispatch coordinator for the facility:**  
(~~For registration of~~ This is only applicable if the facility is to be registered as a generation registered facility-only.)

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

11. **Physical service intended to be provided from the facility:**

Energy

Reserve  (Primary  Secondary  Contingency )

Regulation

(In the case of a facility to be registered as a *generation settlement facility*, please tick "energy" only.)

12. **Other authorisations/approvals granted by the Authority**

(For facilities other than *intermittent generation facilities*.)

- Approval for classification of your facility as an *embedded generation facility* for the purposes of net treatment on non-reserve charges:  Yes  No

(If the answer to the above is no, is such approval being sought?  Yes  No)

- Approval for your facility to be assigned to an *EGF group* to be, or an *EGF group* which has been, granted *price neutralisation*:

(If the answer to the above is no, is such approval being sought?

Yes  No)

**13. Intermittent generation facilities**

(For registration of *generation settlement facility* that is comprised of one or more *intermittent generation facilities*.)

- Is your facility comprised of one or more *intermittent generation facilities*?  Yes  No

(If yes, is your facility comprised only of *intermittent generation facilities*?  Yes  No)

- Is your facility comprised only of embedded *intermittent generation facilities*?  Yes  No

#### **D. STANDING OFFER DATA**

(This section is only applicable if your facility is to be registered as a *generation registered facility*.)

Please provide a *standing offer* for each *physical service* to be provided from your facility to be registered as a *generation registered facility*. Each such *standing offer* for your facility 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, Offer Variations and Standing Data (Chapter 6 Market Rules).

#### **E. GENERATION FACILITY REGISTRATION (FOR SUBMISSION TO THE PSO)**

Please complete the *PSO* Data Form for Generation Facility Registration which is attached as 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 duly executed *connection agreement* with the *transmission licensee* for your facility.
- A certified true copy of your duly executed *market participant - market support services licensee agreement* with the *market support services licensee* for your facility, if required by the *EMC*.
- 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 Generation Facility Registration required by the *PSO* (as ~~set out~~described in **Appendix C** of this application form) for your facility.

=====

**FOR EMC OFFICIAL USE**

1. Assigned MNN number(s) for this facility: \_\_\_\_\_

***INFORMATION PROVIDED BY THE MSSSL TO THE EMC***

2. Respective RQM (as defined by MSSSL) ID Number(s): \_\_\_\_\_

2.1. Location of the facility: \_\_\_\_\_

### 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 either as a *generation registered facility* or a *generation settlement 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 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 Limited~~ ("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.

# Generation Facility Registration

## Appendix A : Metering Details

S/No	Generation <u>Facilities</u> Facility Name	Meter Type (Main, Check or Auxiliary)	Meter Serial Number	Station Load Meter Name (Please show tagging, if any)	Station Load Meter Serial Number	Market Network Node (assigned by the EMC)
1						
2						
3						
4						

Note:

Please tag the station loads (if any) to the generation facilities facility.

~~APPENDIX~~Appendix B

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

---

**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 Generation Facility Registration by a Market Participant dated [state date] for the registration of [identify the relevant *generation facility* here] ("the Facility") as a [*generation registered facility / generation settlement 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 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: \_\_\_\_\_

---

\* Delete where inapplicable.

## **APPENDIX Appendix C**

### **Power System Operator (PSO) Data Form for Generation Facility Registration**

- The facility registration form is available for download from the ~~EMA~~EMA's website at [www.ema.gov.sg/NEMS\\_Activities.aspx](http://www.ema.gov.sg/NEMS_Activities.aspx).
- For registration of a generation registered facility, please use Appendix 3A of the form.
- For registration of a generation settlement facility, please use Appendix 3C of the form.
- For registration of an intermittent generation facility (PV), please use Appendix 3D of the form.
- 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 4:**

Clean version of the proposed revised Application Form for Commissioning Generation Facility Registration by a Market Participant, Market Administration Market Manual (Registration and Authorisation Part 3 of 4)

# **Application form for Commissioning Generation Facility Registration by a Market Participant**

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* or a *generation settlement 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 registered by the *EMC* if you wish to convey any *physical services* into, through or out of the *transmission system* and that facility is required or permitted to be registered under the *market rules*.

#### **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 must be registered as a *market participant* before you are eligible to apply for registration of your facilities.

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

#### **What are the types of generation facility registration?**

The three types of *generation facility* registration are:

- *Generation registered facility* (you need to complete a separate form for this type of registration)
- *Generation settlement facility* (you need to complete a separate form for this type of registration)
- *Commissioning generation facility*.

You should register your generation facility as a ***commissioning generation facility***.

- a) if the facility is required or intended to be registered as a *generation registered facility*; or
- b) if the facility is required or intended to be registered as a *generation settlement facility*, and is required to cause or permit any *physical service* to be conveyed into, through or out of the *transmission system*,

on a transitional basis for the purpose of permitting the facility to convey a *physical service* into, through or out of the *transmission system* or of participating in the *real-time markets* during the period in which it is undergoing the commissioning tests.

This application form is to be used for application for registration of a *commissioning generation facility* only. Subsequently, if you wish to proceed with the application of your facility as a *generation registered facility* or a *generation settlement facility*, you should use the Application form for Generation Facility Registration by a Market Participant.

#### **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 *commissioning generation 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.

**What should you do if you have more than one facility to register?**

Please fill in a separate form for **each** application for registration of a *commissioning generation facility*. You can download additional copies of the form from the EMC's website at [www.emcsg.com](http://www.emcsg.com).

**Is there an application fee for your application to register your facility?**

There is no application fee payable for your application to register your facility.

## Summary of registration requirements for a commissioning generation facility

The key requirements in the process for the registration of a *commissioning generation facility* are outlined in the table below:

A	<p><b>Meet the EMC's requirements</b></p>	<p>You must ensure that</p> <ul style="list-style-type: none"> <li>• your facilities and equipment meet 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>If you wish to subsequently register your facility as a <i>generation registered facility</i>, you shall identify your proposed <i>dispatch coordinator</i>. You cannot change your designated <i>dispatch coordinator</i> for your facility without the prior approval of the EMC.</p>
B	<p><b>Meet the PSO's requirements</b></p>	<p>You must complete the PSO's Data Form for Generation Facility Registration, meeting all the applicable technical requirements and attaching any required documents during submission.</p>
C	<p><b>Meet metering requirements</b></p>	<p>You must secure the <i>market support services licensee's</i> written confirmation to the EMC that the <i>market support services licensee</i> is ready to submit all relevant <i>settlement</i> data required under the <i>market rules</i> for your facility to the EMC.</p>
D	<p><b>Prepare and attach required documents</b></p>	<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 duly executed <i>connection agreement</i> with the <i>transmission licensee</i> for your facility.</li> <li>• A certified true copy of your duly executed <i>market participant - market support services licensee</i> agreement with the <i>market support services licensee</i> for your facility, if required by the EMC.</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 PSO Data Form for Generation Facility Registration required by the PSO (as described in <b>Appendix C</b> of this application form) for your facility.</li> </ul>
E	<p><b>Standing Offer Data</b></p>	<p>If your facility is to be registered as a <i>generation registered facility</i> subsequently, you must comply with section D below. For the avoidance of doubt, if your facility is to be registered as a <i>generation settlement facility</i> subsequently, you are not required to comply with section D below.</p>
F	<p><b>Registration as a commissioning generation facility</b></p>	<p>Your facility will be registered as a <i>commissioning generation 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 may check one or more of the following boxes indicating the type of activities authorised under your *electricity licence(s)*.

- generate electricity
- retail electricity
- transmit electricity
- transmit electricity for or on behalf of a *transmission licensee*
- import electricity
- export electricity
- trade in wholesale electricity market

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

State activities exempted from licensing requirement: \_\_\_\_\_

Exemption order number(s): \_\_\_\_\_

2. **What is the name-plate rating of the facility?**

- 1 MW or more but less than 10 MW       10 MW or more

3. **Please indicate the type of generation facility registration you will subsequently be applying for.**

- generation registered facility       generation settlement facility

4. **Derogation requested:**                       Yes                       No

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

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

**C. FACILITY DETAILS**

6. **Name of the facility:** \_\_\_\_\_
7. **Name of owner of the facility:** \_\_\_\_\_
8. **Location of the facility:** \_\_\_\_\_  
\_\_\_\_\_
9. **Meter ID number(s):** \_\_\_\_\_  
(Please also complete **Appendix A** of this application form.)
10. **Dispatch coordinator for the facility:** \_\_\_\_\_  
(This is only applicable if the facility is to be registered as a *generation registered facility* subsequently.)
11. **Contacts of the dispatch coordinator for the facility:**  
(This is only applicable if the facility is to be registered as a *generation registered facility* subsequently.)

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

12. **Physical service intended to be provided from the facility:**
- Energy*
- Reserve*          (Primary                  Secondary                  Contingency         )
- Regulation*

13. **Expected start date of commissioning tests:** \_\_\_\_\_
- Expected completion date of commissioning tests:** \_\_\_\_\_

14. **Other authorisations/approvals granted by the Authority**  
(For facilities other than *intermittent generation facilities*.)
- Approval for classification of your facility as an *embedded generation facility* for the purposes of net treatment on non-reserve charges:  Yes  No
  - (If the answer to the above is no, is such approval being sought?  Yes  No)
  - Approval for your facility to be assigned to an *EGF group* to be, or an *EGF group* which has been, granted *price neutralisation*:

Yes  No

(If the answer to the above is no, is such approval being sought?

Yes  No)

**15. Intermittent generation facilities**

(For registration of *commissioning generation facility* that is comprised of one or more *intermittent generation facilities*.)

▪ Is your facility comprised of one or more *intermittent generation facilities*?  Yes  No

(If yes, is your facility comprised only of *intermittent generation facilities*?  Yes  No)

▪ Is your facility comprised only of embedded *intermittent generation facilities*?  Yes  No

**D. STANDING OFFER DATA**

(This section is only applicable if your facility is to be registered as a *generation registered facility* subsequently.)

Please provide a *standing offer* for each *physical service* to be provided from your facility to be registered as a *commissioning generation facility*. Each such *standing offer* for your facility 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, Offer Variations and Standing Data (Chapter 6 Market Rules).

**E. GENERATION FACILITY REGISTRATION**

**(FOR SUBMISSION TO THE PSO)**

Please complete the *PSO Data Form* for Generation 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 duly executed *connection agreement* with the *transmission licensee* for your facility.
- A certified true copy of your duly executed *market participant - market support services licensee agreement* with the *market support services licensee* for your facility, if required by the *EMC*.
- 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 *PSO Data Form for Generation Facility Registration* required by the *PSO* (as described in **Appendix C** of this application form) for your facility.

=====

**FOR EMC OFFICIAL USE**

1. Assigned MNN number(s) for this facility: \_\_\_\_\_

***INFORMATION PROVIDED BY THE MSSSL TO THE EMC***

2. Respective RQM (as defined by MSSSL) ID Number(s): \_\_\_\_\_

2.1. Location of the facility: \_\_\_\_\_

### 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 as a *commissioning generation 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 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.

# Generation Facility Registration

## Appendix A : Metering Details

S/No	Generation Facility Name	Meter Type (Main, Check or Auxiliary)	Meter Serial Number	Station Load Meter Name (Please show tagging, if any)	Station Load Meter Serial Number	Market Network Node (assigned by the EMC)
1						
2						
3						
4						

Note:

Please tag the station loads (if any) to the generation facility.

Appendix B

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

---

**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 Commissioning Generation Facility Registration by a Market Participant dated [■state date] for the registration of [■identify the relevant *generation facility* here] ("the Facility") as a *commissioning generation 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 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: \_\_\_\_\_

---

\* Delete where inapplicable.

## Appendix C

### Power System Operator (PSO) Data Form for Generation 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).
- For registration of a generation facility which is required or intended to be registered as a *generation registered facility*, please use Appendix 3A of the form.
- For registration of a generation facility which is required or intended to be registered as a *generation settlement facility*, please use Appendix 3C of the form.
- For registration of an intermittent generation facility (PV), please use Appendix 3D of the form.
- 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 5:**

Clean version of the proposed revised Application Form for Generation Facility Registration by a Market Participant, Market Administration Market Manual (Registration and Authorisation Part 2 of 4)

# **Application form for Generation Facility Registration by a Market Participant**

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* or a *generation settlement 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 registered by the EMC if you wish to convey any *physical services* into, through or out of the *transmission system* and that facility is required or permitted to be registered under the *market rules*.

#### **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 must be registered as a *market participant* before you are eligible to apply for registration of your facilities.

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

#### **What are the types of generation facility registration?**

The three types of *generation facility* registration are:

- *Generation registered facility*
- *Generation settlement facility*
- *Commissioning generation facility* (you need to complete a separate form for this type of registration).

This application form is to be used for application for registration of either a *generation registered facility* or a *generation settlement facility* only. If you wish to register your facility as a *commissioning generation facility*, please use the Application form for Commissioning Generation Facility Registration by a Market Participant.

#### Generation Registered Facility

If all the *generation facilities* (other than *intermittent generation facilities*) at the same *generating station* together have an aggregate name-plate rating of 10 MW or more, all such *generation facilities* must be registered as either a single *generation registered facility* or two or more *generation registered facilities* in accordance with the *market rules*. The foregoing shall not apply to *intermittent generation facilities*.

A *generation registered facility* is subject to *dispatch* by the PSO. A *generation registered facility* shall at all times have a valid *standing offer* for each *physical service* that it intends to provide in the *real-time markets*.

#### Generation Settlement Facility

A *generation settlement facility* is registered for the delivery of *energy* only and is not subject to *dispatch* by the PSO.

If all the *generation facilities* (other than *intermittent generation facilities*) at the same *generating station* together have an aggregate name-plate rating of 1 MW or more but less than 10 MW, all such *generation facilities* must be registered as either a single *generation settlement facility* or two or more *generation settlement facilities* in accordance with the *market rules*. But if any of such *generation facility* is intended to be subject to *dispatch* by the *PSO*, that *generation facility* must be registered as a *generation registered facility* instead. The foregoing shall not apply to *intermittent generation facilities*.

#### Intermittent Generation Facilities as Generation Settlement Facilities

If you intend to participate in the *real-time markets* or cause or permit a *physical service* to be conveyed into, through or out of the *transmission system* from one or more *intermittent generation facilities*, such *intermittent generation facilities* (regardless of their respective or aggregate name-plate ratings) must be registered as one or more *generation settlement facilities*, unless such registration requirements are waived by the *Authority*.

#### **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 *generation 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.

#### **What should you do if you have more than one facility to register?**

Please fill in a separate form for **each** application for registration of a *generation registered facility* or a *generation settlement facility*. You can download additional copies of the form from the *EMC*'s website at [www.emcsg.com](http://www.emcsg.com).

#### **Is there an application fee for your application to register your facility?**

There is no application fee payable for your application to register your facility.

## Summary of registration requirements for a generation registered facility

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

<b>A</b> <b>Meet the EMC's requirements</b>	<p>You must ensure that</p> <ul style="list-style-type: none"> <li>• your facilities and equipment meet 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>If your facility is located outside of Singapore, the EMC may impose additional requirements for the registration of your facility. 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</b> <b>Meet the PSO's requirements</b>	<ul style="list-style-type: none"> <li>• You must complete the PSO's Data Form for Generation 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 poses no threat to the <i>reliability</i> or <i>security</i> of the <i>PSO controlled system</i>.</li> </ul>
<b>C</b> <b>Meet metering requirements</b>	<p>You must secure the <i>market support services licensee's</i> written confirmation to the EMC that the <i>market support services licensee</i> is ready to submit all relevant <i>settlement</i> data required under the <i>market rules</i> for your facility to the EMC.</p>
<b>D</b> <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 duly executed <i>connection agreement</i> with the <i>transmission licensee</i> for your facility.</li> <li>• A certified true copy of your duly executed <i>market participant - market support services licensee</i> agreement with the <i>market support services licensee</i> for your facility, if required by the EMC.</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 Generation Facility Registration required by the PSO (as described in <b>Appendix C</b> of this application form) for your facility.</li> </ul>
<b>E</b> <b>Standing Offer Data</b>	<p>You must comply with section D below.</p>
<b>F</b> <b>Registration as a generation registered facility</b>	<p>Your facility will be registered as a <i>generation 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>

## Summary of registration requirements for a generation settlement facility

The key requirements in the process for the registration of a *generation settlement facility* are outlined in the table below:

<b>A</b> <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>
<b>B</b> <b>Meet the PSO's requirements</b>	<ul style="list-style-type: none"> <li>• You must complete the <i>PSO's</i> Data Form for Generation 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 <i>PSO</i> advising the <i>EMC</i> that such facility poses no threat to the <i>reliability</i> or <i>security</i> of the <i>PSO controlled system</i>.</li> </ul>
<b>C</b> <b>Meet metering requirements</b>	<p>You must secure the <i>market support services licensee's</i> written confirmation to the <i>EMC</i> that the <i>market support services licensee</i> is ready to submit all relevant <i>settlement</i> data required under the <i>market rules</i> for your facility to the <i>EMC</i>.</p>
<b>D</b> <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 duly executed <i>connection agreement</i> with the <i>transmission licensee</i> for your facility.</li> <li>• A certified true copy of your duly executed <i>market participant - market support services licensee</i> agreement with the <i>market support services licensee</i> for your facility.</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 Generation Facility Registration required by the <i>PSO</i> (as described in <b>Appendix C</b> of this application form) for your facility.</li> <li>•</li> </ul>
<b>E</b> <b>Registration as a generation settlement facility</b>	<p>Your facility will be registered as a <i>generation settlement facility</i> if the <i>EMC</i> 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 <i>EMC</i> will notify you of the terms and conditions of the registration in an official notice to you. If your application is declined, the <i>EMC</i> 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 may check one or more of the following boxes indicating the type of activities authorised under your *electricity licence(s)*.

- generate electricity*
- retail electricity*
- transmit electricity*
- transmit electricity for or on behalf of a transmission licensee*
- import electricity*
- export electricity*
- trade in wholesale electricity market*

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

State activities exempted from licensing requirement: \_\_\_\_\_

Exemption order number(s): \_\_\_\_\_  
\_\_\_\_\_

2. **What type of facility registration are you applying for?**

- generation registered facility*       *generation settlement facility*

3. **Derogation requested:**                       Yes                       No

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

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

### C. FACILITY DETAILS

5. **Name of the facility:** \_\_\_\_\_

6. **Name of owner of the facility:** \_\_\_\_\_

7. **Location of the facility:** \_\_\_\_\_  
\_\_\_\_\_

8. **Meter ID number(s):** \_\_\_\_\_  
(Please also complete **Appendix A** of this application form.)

9. **Dispatch coordinator for the facility:** \_\_\_\_\_  
(This is only applicable if the facility is to be registered as a *generation registered facility*.)

10. **Contacts of the dispatch coordinator for the facility:**  
(This is only applicable if the facility is to be registered as a *generation registered facility*.)

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

11. **Physical service intended to be provided from the facility:**

*Energy*

*Reserve*  (Primary  Secondary  Contingency )

*Regulation*

(In the case of a facility to be registered as a *generation settlement facility*, please tick "energy" only.)

12. **Other authorisations/approvals granted by the Authority**  
(For facilities other than *intermittent generation facilities*.)

- Approval for classification of your facility as an *embedded generation facility* for the purposes of net treatment on non-reserve charges:  Yes  No

(If the answer to the above is no, is such approval being sought?  Yes  No)

- Approval for your facility to be assigned to an *EGF group* to be, or an *EGF group* which has been, granted *price neutralisation*:  Yes  No

(If the answer to the above is no, is such approval being sought?  Yes  No)

**13. Intermittent generation facilities**

(For registration of *generation settlement facility* that is comprised of one or more *intermittent generation facilities*.)

- Is your facility comprised of one or more *intermittent generation facilities*?  Yes  No  
(If yes, is your facility comprised only of *intermittent generation facilities*?  Yes  No)
  
- Is your facility comprised only of embedded *intermittent generation facilities*?  Yes  No

**D. STANDING OFFER DATA**

(This section is only applicable if your facility is to be registered as a *generation registered facility*.)

Please provide a *standing offer* for each *physical service* to be provided from your facility to be registered as a *generation registered facility*. Each such *standing offer* for your facility 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, Offer Variations and Standing Data (Chapter 6 Market Rules).

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

Please complete the *PSO* Data Form for Generation 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 duly executed *connection agreement* with the *transmission licensee* for your facility.
- A certified true copy of your duly executed *market participant - market support services licensee agreement* with the *market support services licensee* for your facility, if required by the *EMC*.
- 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 Generation Facility Registration required by the *PSO* (as described in **Appendix C** of this application form) for your facility.

=====

**FOR EMC OFFICIAL USE**

1. Assigned MNN number(s) for this facility: \_\_\_\_\_

***INFORMATION PROVIDED BY THE MSSSL TO THE EMC***

2. Respective RQM (as defined by MSSSL) ID Number(s): \_\_\_\_\_

2.1. Location of the facility: \_\_\_\_\_

## 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 either as a *generation registered facility* or a *generation settlement 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 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.

# Generation Facility Registration

## Appendix A : Metering Details

S/No	Generation Facility Name	Meter Type (Main, Check or Auxiliary)	Meter Serial Number	Station Load Meter Name (Please show tagging, if any)	Station Load Meter Serial Number	Market Network Node (assigned by the EMC)
1						
2						
3						
4						

Note:

Please tag the station loads (if any) to the generation facility.

## 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 Generation Facility Registration by a Market Participant dated [■state date] for the registration of [■identify the relevant *generation facility* here] ("the Facility") as a [*generation registered facility / generation settlement 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 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: \_\_\_\_\_

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\* Delete where inapplicable.

## Appendix C

### Power System Operator (PSO) Data Form for Generation 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).
- For registration of a generation registered facility, please use Appendix 3A of the form.
- For registration of a generation settlement facility, please use Appendix 3C of the form.
- For registration of an intermittent generation facility (PV), please use Appendix 3D of the form.
- 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.