|  |
| --- |
| APPLICATION FORM |
| Application for Transfer of Generator Registration in the NEM by Transferee |

Please complete this Application Form using the appropriate Application Guide, and any other documents and information sources mentioned in this document.

The information in this Application Form is not to be altered without the prior written consent of Australian Energy Market Operator Ltd (AEMO).

Rules terms

Terms defined in the *National Electricity Rules* (*NER* or *Rules*) have the same meanings in this Application Form (this Form) unless otherwise specified. Those terms are intended to be identified in this Form by italicising them, but failure to italicise such a term does not affect its meaning.

Application Form submission

To submit an application to AEMO:

* Complete this Application Form, please ensure all required sections are complete and any prerequisites are met.
* Sign the form, if using a digital signature please ensure the signatory is copied into the submission email.
* Ensure any required letter of authority is in place. For more information and a template letter of authority please see [AEMO’s website.](https://aemo.com.au/energy-systems/electricity/national-electricity-market-nem/participate-in-the-market/registration)
* Email a copy of the completed, signed form including all attachments to the AEMO Market Registration Team via email to onboarding@aemo.com.au.

**Note:** AEMO’s Market Registration team is unable to access external file share links. Please attach all documentation you wish to submit to AEMO, and if files are over 10MB please use a zip file. Multiple emails are acceptable. If sending multiple emails, please number each email.

Contents

[Application Overview 1](#_Toc96355842)

[Section A. Participant Category 1](#_Toc96355843)

[Section B. Application Details 1](#_Toc96355844)

[B.1. Transferee details 1](#_Toc96355845)

[B.2. Transferee association 1](#_Toc96355846)

[B.3. Consent to act as an intermediary 2](#_Toc96355847)

[B.4. Evidence of nomination 2](#_Toc96355848)

[B.5. Transferor details 2](#_Toc96355849)

[B.6. Declaration 3](#_Toc96355850)

[Section C. Transferee Contact Details 3](#_Toc96355851)

[C.1. Registration contact 3](#_Toc96355852)

[C.2. Head office and branch contact details 4](#_Toc96355853)

[C.3. Operational contact details 4](#_Toc96355854)

[C.4. Personnel contacts 5](#_Toc96355855)

[Section D. Required Information 6](#_Toc96355856)

[D.1. Partnership status 6](#_Toc96355857)

[D.2. Trust status 6](#_Toc96355858)

[D.3. Organisational capability 6](#_Toc96355859)

[D.4. Regulatory compliance 7](#_Toc96355860)

[D.5. Financial viability 7](#_Toc96355861)

[D.6. Credit support 7](#_Toc96355862)

[D.7. Recipient Created Tax Invoice 8](#_Toc96355863)

[D.8. Settlement Revisions Liability Deed 8](#_Toc96355864)

[D.9. Austraclear 8](#_Toc96355865)

[Section E. Local Black System Procedures 8](#_Toc96355866)

[Section F. Facility Information 9](#_Toc96355867)

[F.1. Generating unit details 9](#_Toc96355868)

[F.2. Performance standards 10](#_Toc96355869)

[F.3. Operational and System Readiness 11](#_Toc96355870)

[F.4. Energy dispatch instructions 12](#_Toc96355871)

[Section G. Ancillary Services 12](#_Toc96355872)

[G.1. Ancillary services generating unit 12](#_Toc96355873)

[G.2. Controls, communications and telemetry information 13](#_Toc96355874)

[G.3. FCAS dispatch instructions 14](#_Toc96355875)

[Section H. Metering 15](#_Toc96355876)

[H.1. Connection point checklist 15](#_Toc96355877)

[Section I. IT Systems 15](#_Toc96355878)

[I.1. MarketNet connection 15](#_Toc96355879)

[I.2. IT Notifications email address 16](#_Toc96355880)

Application Overview

Complete this Application Form (this Form) for a transfer of registration as a *Generator* in the *National Electricity Market* (*NEM*) where you are the *Transferee*.

Where a requirement for information is ‘Not Applicable’, please put “NA” in the field.

For help in completing this Form, refer to the [NEM Generator Transfer Guide](http://www.aemo.com.au/-/media/Files/Electricity/NEM/Participant_Information/Application-forms-and-supporting-documentation/NEM-GENERATOR-TRANSFER-GUIDE.pdf).

Direct any questions regarding your application to the AEMO Registration Team email: onboarding@aemo.com.au.

# Participant Category

The Transferee is applying to become a *Registered Participant* in the *NEM* in respect of the *facility* listed in this document and currently registered by the *Transferor* as identified in sections F and G of this Form.

# Application Details

Please clearly mark all attachments as "Attachment to Section B“ and number each page consecutively.

## Transferee details

|  |  |
| --- | --- |
| Entity Name:  |       |
| Trading Name:  |       |
| ABN:  |       | ACN:  |       |
| Participant ID[[1]](#footnote-2): |       |
| Expected date of transfer:       |

## Transferee association

The Transferee’s association with the *facility* is as follows (mark ALL that apply):

[ ]  Controller

[ ]  Operator

[ ]  Owner

[ ]  Other - Sources electricity from the *generating system*

[ ]  If so, I have provided evidence of the entitlement to electricity (e.g. a power purchase agreement)

[ ]  Intermediary (please complete the following Sections B.3 and B.4).

## Consent to act as an intermediary

The Transferee consents to act as an *intermediary* for the following persons who own, control and/or operate the *facility* and who have nominated the Transferee to act as their *intermediary*.

|  |  |  |
| --- | --- | --- |
| Nominator name | ABN | Relationship with the generating system (controller, operator and/or owner) |

|  |  |  |
| --- | --- | --- |
|       |       |  |
|       |       |  |
|       |       |  |
|       |       |  |

## Evidence of nomination

The following documentation is required to support your *intermediary* nomination:

[ ]  Each person who has nominated the Transferee to be their *intermediary* must apply to be exempt from registering as a Generator.

## Transferor details

The Transferee wishes to have the facility transferred from the following person whom has applied as the Transferor.

|  |  |  |
| --- | --- | --- |
| Transferor name | ABN | Relationship with the facility |
|       |       |   |

## Declaration

The Transferee is applying to become a *Registered Participant* in the *NEM* in respect to the facility listed in Section F of this document.

The Transferee has read the ‘[Guide to market systems – NEM change of ownership’](https://aemo.com.au/-/media/files/electricity/nem/participant_information/registration/guide-to-market-systems-nem-change-of-ownership.pdf) and;

* understands the AEMO NEM system cycle, including:
	+ ownership transfer becomes effective at 00:00hrs (midnight) starting on the effective registration date; while
	+ the beginning of the trading day for the wholesale electricity markets is 4:00am.
* will have processes and agreements in place with the Transferor allowing communication of data reports and bids, when applicable.

The Transferee declares they are not in breach of any of its obligations under the *Rules* with respect to the facility listed in Section D in this Form, or any other facility.

The Transferee authorises AEMO to contact any organisation named in any information provided in support of this Application and any regulatory authority[[2]](#footnote-3)[2] to enable AEMO to satisfy itself that the Transferee is able to meet its obligations under the *Rules*, including the prudential and other requirements established in accordance with the *Rules*.

I, <Full Name>, <Position>, declare that I am authorised by the Transferee to submit this Application on the Transferee's behalf and certify that the contents of this Application and any further submissions are complete, true and correct and that the Transferee is not in breach of any of its obligations under the *Rules* with respect to any facility.

|  |  |  |  |
| --- | --- | --- | --- |
| Signature: |  | Date: | 25/08/2023 |

By signing this Form, the signatory warrants that the signatory is duly authorised to sign this document on behalf of the Transferee and to make the declarations set out in this document on the Transferee’s behalf.

# Transferee Contact Details

Please clearly mark all attachments as "Attachment to Section C" and number each page consecutively.

You must provide contact details to assist with communication between AEMO and your organisation. Provide contact details for your head office, any branch offices, and all relevant personnel.

## Registration contact

Please provide contact details for all questions regarding this Application.

|  |  |
| --- | --- |
| Name: |       |
| Position: |       | Email: |       |
| Phone: |       | Mobile: |       |

## Head office and branch contact details

|  |  |
| --- | --- |
| Office Name\*: |       |
| Street address: |       |
| State: |  | Postcode: |       |
| Postal address: |       |
| State: |  | Postcode: |       |
| Phone: |       |  |
| Email: |       |
| \* Type “Head Office” or the name of the branch |

## Operational contact details

|  |
| --- |
| Control Room (physical plant operations, must be contactable 24/7) |
| Primary phone: |       | Backup phone:       |
| Other:       | Email:       |

|  |
| --- |
| Trading Room (24/7 bidding operations, must be contactable 24/7) |
| Primary phone: |       | Email:       |

| Emergency Messaging System Contacts |
| --- |
| Name: |       | Mobile: |       | Email: |       |
| Name: |       | Mobile: |       | Email: |       |
| Name: |       | Mobile: |       | Email: |       |
| Name: |       | Mobile: |       | Email: |       |
| Name: |       | Mobile: |       | Email: |       |

## Personnel contacts

Provide details for the following roles in your desired format, for example, a list exported from Microsoft Outlook, Excel, or Word and check each checkbox in the lists below to confirm details have been provided.

The minimum details required are role(s), name, position, phone number, mobile number, 24/7 contact number for all 24/7 contacts, and an email address.

Each contact can have more than one role.

| Generators |  |  | Market generators |  |
| --- | --- | --- | --- | --- |
| CEO / Head of Organisation | [ ]  |  | Clearing – Primary | [ ]  |
| Company Secretary | [ ]  |  | Clearing – Secondary | [ ]  |
| Corporate Relations Manager | [ ]  |  | IT Security – Primary | [ ]  |
| Dispute Management | [ ]  |  | IT Security – Secondary | [ ]  |
| Local Black System Procedures | [ ]  |  | IT Technical Network | [ ]  |
| SCADA | [ ]  |  | Metering Coordinator | [ ]  |
|  |  |  | Metering Responsible Person | [ ]  |
|  |  |  | Prudentials – Primary | [ ]  |
|  |  |  | Prudentials – Secondary | [ ]  |
|  |  |  | Settlements – Primary | [ ]  |
|  |  |  | Settlements – Secondary | [ ]  |

| Generators that require an energy conversion model |  | Scheduled or semi-scheduled generators |
| --- | --- | --- |
| Intermittent Generator Availability [ ]  |  | Operations – Trading Manager (24/7) | [ ]  |
|  |  |  | Operations – Bidding Contact (24/7) | [ ]  |

|  |  |  |
| --- | --- | --- |
| Generating system exceeds 5 MW |  | Generating system is within an embedded network |
| Operations – Manager (24/7) [ ]  |  | Embedded network manager | [ ]  |
| Operations – Shift Supervisor (24/7) [ ]  |  |  |

|  |  |
| --- | --- |
| Reason if not attached: |       |

# Required Information

Include the following information (where relevant) and ensure the information is attached to this application. Check each checkbox to indicate that you have attached the information required. If you have not addressed all necessary items, please provide a reason in the field provided.

Please clearly mark all attachments as "Attachment to Section D" and number each page consecutively.

## Partnership status

Is the Applicant applying on behalf of a partnership? [ ]  Yes [ ]  No

If Yes,

[ ]  I have provided a copy of the partnership agreement.

|  |  |
| --- | --- |
| Reason if not attached: |       |

## Trust status

Is the Applicant applying for registration on behalf of a Trust? [ ]  Yes [ ]  No

If Yes,

[ ]  I have provided a copy of the Trust Deed establishing the Applicant trust.

[ ]  I have provided an executed Trustee Deed in favour of *AEMO*.

|  |  |
| --- | --- |
| Reason if not attached: |       |

## Organisational capability

Please confirm you have provided the following information:

[ ]  An organisation chart and other documents (such as the résumés of key managers) detailing the necessary expertise to comply with the *Rules*, where relevant, carry out electricity industry operations, including operations management, settlements and risk management.

[ ]  A corporate structure chart explaining any links with parent and other organisations that provides evidence of your ability to comply with the *Rules*.

[ ]  A document that demonstrates the *NEM*-related policies and procedures which are already in place or under development (do not submit the documents to *AEMO*, simply advise that they exist or are being developed).

[ ]  Evidence of the IT systems in place to support *NEM* activities.

[ ]  If the Applicant has not participated in the *NEM* before, evidence they have brought in expertise to ensure they can meet their obligations.

|  |  |
| --- | --- |
| Reason if not attached: |       |

## Regulatory compliance

Does the Applicant require a jurisdictional licence or authorisation to carry out the activity of a *Generator*?

 Yes Provide a copy of the jurisdictional electricity licence or authorisation.

 No Provide evidence of exemption from the requirement to hold a jurisdictional electricity licence, authorisation or, if relevant, explain why no such requirement applies. Include copies of any applicable exemption or derogation.

Are there any outstanding non-compliances with regulatory obligations in respect of existing or proposed activities as a *Generator* by any person associated with this application?

 Yes Provide details of any non-compliance.

 No

Note: The Transferee and the Transferor must have no outstanding non-compliances. This will demonstrate they can comply with the Rules. If there are outstanding non-compliances an application for transfer of registration will be rejected.

|  |  |
| --- | --- |
| Reason if not attached: |       |

## Financial viability

**Note:** This section is for *Market Participant* applicants only.

Please confirm you have provided the following information:

[ ]  Copies of recently audited financial statements.

[ ]  An explanation of financial links with parent organisations and other organisations that may improve the financial viability of the Applicant.

|  |  |
| --- | --- |
| Reason if not attached: |       |

## Credit support

Does the Applicant meet the *acceptable credit criteria* detailed in clause 3.3.3 of the *Rules*?

 Yes Please provide evidence it meets the criteria.

 No The Applicant is required to provide credit support.

Note: Applicants applying to register as a Market Participant and do not meeting the *acceptable credit criteria* must provide credit support equal to or greater than their maximum credit limit (MCL). On receipt of your application, AEMO will request an estimate of the Applicant’ s daily energy usage in MWh during the first 3 months of operation to determine the MCL. A guarantee is required from your financial institution and must be in the AEMO [Guarantee Pro Forma](https://aemo.com.au/-/media/Files/About_AEMO/AEMO-Bank-Guarantee-Pro-Forma---editable-form.docx) format available on the AEMO website.

For further assistance with financial guarantees, see the [Credit Support Management Guide](https://www.aemo.com.au/-/media/Files/About_AEMO/Guide_to_AEMO_Credit_Support_Management_April_2014.pdf) on the *AEMO* website.

|  |  |
| --- | --- |
| Reason if not attached: |       |

## Recipient Created Tax Invoice

If your company (having the same ABN as this application) has signed a current version of the Recipient Created Tax Invoice Agreement (RCTI), you do not need to complete a new one. To see if your previously signed agreement is still current, check the Last Updateddate in the latest Agreement's "notes for completion".

If you need to complete an RCTI, submit your application with a completed copy of the [RCTI](https://aemo.com.au/-/media/files/about_aemo/recipient-created-tax-invoice-agreement.docx?la=en) available from the AEMO website.

|  |  |
| --- | --- |
| Reason if not attached: |       |

## Settlement Revisions Liability Deed

A Settlement Revisions Liability Deed (SRLD) may be required and signed by both the Transferor and Transferee. This deed is used when one entity wishes to take liability for the settlement revisions of another. For example in the event of an acquisition, and/or when the Transferor is to deregister from the NEM as a result of the transfer.

If you need to complete a SRLD, submit you application with a completed copy of the [SRLD](https://aemo.com.au/-/media/files/electricity/nem/participant_information/current-participants/nem-settlements-revisions-liability-deed.docx) available from the AEMO website.

|  |  |
| --- | --- |
| Reason if not attached: |       |

## Austraclear

AEMO uses an external electronic funds transfer system provided by [Austraclear](https://www.asx.com.au/services/settlement/austraclear.htm). Please apply directly to Austraclear for membership. Membership approvals can take up to five weeks to process and charges are payable direct to Austraclear. *See* <https://www.asx.com.au/services/settlement/austraclear.htm>.

|  |  |
| --- | --- |
| Austraclear Membership Number: |       |

Is the Applicant the Austraclear Account Holder?

 Yes

 No Provide evidence of permission from an authorised officer on behalf of the Austraclear account holder for the Applicant to use this Austraclear account.

|  |  |
| --- | --- |
| Reason if not attached: |       |

# Local Black System Procedures

Please enclose an updated version of the *local black system procedures* in the name of the Transferee and any new contact details.

Please clearly mark all attachments as "Attachment to Section E" and number each page consecutively.

# Facility Information

Please clearly mark all attachments as "Attachment to Section F" and number each page consecutively.

## Generating unit details

If the Transferee is applying to vary the classification and/or aggregation of *generating units*, the Transferee must submit a new application to apply to register as a *Generator* and re-classify the *generating* *units*.

If the classification and aggregation, if applicable, of the following *generating unit(s)* has previously been approved by AEMO in accordance with the *NER*, provide the following information:

|  |  |
| --- | --- |
| Facility name: |       |
| Site location: |       |
| Nameplate rating of generating system (MW)[[3]](#footnote-4): |       |
| Maximum capacity of *generating system* at connection point (MW)[[4]](#footnote-5): |       |

|  |  |  |
| --- | --- | --- |
| Dispatchable Unit Identifier (DUID):      Note: If there is more than one DUID, please complete this section in a new form (one for each additional DUID) and attach as an addition to ‘Section F’ in the main application. | *Nameplate rating* of dispatchable unit at the *connection point* (MW)[[5]](#footnote-6): |       MW |
| Maximum Capacity of the dispatchable unit at the *connection point* (MW)[[6]](#footnote-7): |       MW |
|  | Generating unit(s) classification: | [ ]  Scheduled: [ ]  Fast start [ ]  Slow start[ ]  Semi-Scheduled: [ ]  Non-Scheduled[ ]  Market Generating Unit[ ]  Non-Market Generating Unit |
|  | Number of physical units |       |
|  | Aggregation of generating units for the purpose of central dispatch (scheduled generating units or semi-scheduled generating units). Yes No |
|  | Two or more semi-scheduled generating units are registered as one semi-scheduled generating unit. Yes No |
|  | Commissioned: |  Yes Not yet | Expected commissioning date: |       |
| [ ]  For Scheduled or Semi-Scheduled Generators, acknowledge that you must provide the *expected closure year*14 via the AEMO Supply Forecasting Generator Survey application on the AEMO Electricity Market Management System (EMMS) portal and provide updated information (via that portal or by other means notified to you by AEMO) if there is a change to the *expected closure year*.Note: In accordance with the *Rules*, commissioning plans must be submitted,* three (3) months prior to commencement of commissioning for transmission-connected systems, and
* one (1) month prior to commencement of commissioning for distribution-connected systems.
 |

Add more unit details as required by completing this section in a new form and attaching it to this document.

## Performance standards

Do the technical requirements of Schedule 5.2 of the *NER* apply to the *facility* to which the Application relates?

 No Please provide all of the following information:

 Evidence to support that the Transferee is eligible for exemption from registration for this *generating system*; and

 A letter from the connecting *Network Service Provider* confirming that the generating system is connected or intended for use in a manner it considers unlikely to cause a material degradation in the quality of supply to other Network Users.

 If the technical requirements of Schedule 5.2 of the *Rules* do apply, you must submit the performance standards for each generating unit or generating system (as applicable) that have previously been registered by AEMO identifying you as the registered *Generator*

 If a performance standards compliance program has been established, you must also provide the compliance program. The performance standards for each generating unit or generating system (as applicable) should not have been varied in any other manner. If a variation is required, you will need to submit a new application to be registered as a *Generator* in respect of the relevant units.

 Connection Point NMIs along with metering installation test results that show compliance with S7.2.3 and S7.3 of the *Rules*. The *responsible person* must also be nominated together with service providers for meter provision and meter data provision

 Ancillary services generating unit information, including capabilities and confirmation of any providers of communications or telemetry to AEMO (such as a *Network Service Provider*).

AEMO may clarify any of the above information and require evidence to support changes if the information does not correspond to AEMO’s records

 Yes Please complete and attach the *performance standards* that have previously been registered by *AEMO* applicable to the *facility* to which the application relates identifying the Transferee as the registered *Generator*.

If the Transferee is applying to vary the *performance standards* themselves, the Transferee must submit a new application to be registered as a *Generator*.

## Operational and System Readiness

Are you applying as a Transferee in respect to generating units whose classifications have previously been approved by AEMO as scheduled or semi-scheduled? [ ]  Yes [ ]  No

If Yes, I have provided the following (indicate agreement by checking the appropriate checkboxes):

[ ]   A diagram showing the roles of the individuals responsible for daily bidding and physical control of the *generating system* and a description of the prior experience of bidding and dispatch operational staff.

[ ]  A description of how 24/7 operational coverage will be maintained, to ensure appropriate personnel are available at all times to receive and immediatelyact upon dispatch instructions issued by AEMO, including (without limitation),

* how the Transferee will receive and immediately act upon dispatch instructions for physical plant operations on a 24/7 basis,
* how the Transferee will submit bids and ensure it is able to comply with the latest generation offer, and
* the systems in place for 24-hour access to AEMO systems, in particular AEMO’s MMS portal.

[ ]  Details of the primary and backup voice and data communication facilities established for the *generating system*.

[ ]  A completed and signed [Applicant Capability Declaration](https://aemo.com.au/-/media/Files/Electricity/NEM/Participant_Information/Application-forms-and-supporting-documentation/Capability-Declaration-Generator-Application.docx).

[ ]  I understand and acknowledge the following:

Evidence is required to show you can use AEMO’s pre-production systems once you have been configured to do so. You will be required to submit screenshots of the following:

* Likely first bid once your generator is commissioned
* MT PASA data (generator/turbine/inverter availabilities as appropriate)
* Intermittent generator availability submission (upper MW limit and turbine/inverters unavailable) and acknowledgment of successful submission (for intermittent generating units required to submit an energy conversion model), for both energy availability (HH) and MTPASA availability (daily) [for semi-scheduled generating units]
* Receipt of dispatch target (MW) [for scheduled generating units]
* Receipt of semi-dispatch cap (MW and flag) [for semi-scheduled generating units]’

|  |  |
| --- | --- |
| Reason if not attached: |       |

## Energy dispatch instructions

Please complete this section if the generating units are classified as *scheduled generating units* or *semi-scheduled generating units*.

Do you wish to receive energy *dispatch instructions* via SCADA in addition to instructions provided via the Electricity Market Management System (MMS) Data Interchange[[7]](#footnote-8)? [ ]  Yes [ ]  No

If Yes, please acknowledge the following by checking the checkbox below.

[ ]  I understand and acknowledge the following:

AEMO’s primary interface for energy *dispatch instructions* is either AEMO’s *automatic generation control system* (AGC) or the MMS Data Interchange. *Market Participants* may choose to receive *dispatch instructions* via SCADA but must be aware that AEMO considers this a secondary system and cannot monitor successful transmission of SCADA signals.

|  |  |
| --- | --- |
| Reason if not attached: |       |

# Ancillary Services

## Ancillary services generating unit

Note: The Transferee cannot apply to classify ancillary service generating units or to modify the current classification using this form. The Transferee must wait until they are the registered *Market Generator* for the *generating units* specified in Section F before they can apply.

The classification as *ancillary services generating unit*, provided by the generating units specified in Section F.1, has previously been approved by AEMO in accordance with the *NER?*

 Yes Complete all of Section G

 No Skip this section.

If there is more than one *ancillary service generating unit*, please complete this section in a new form (one for each additional unit) and attach as an addition to ‘Section G’ in the main application.

|  |  |
| --- | --- |
| DUID (from Section F.1): |       |
| Frequency Control Ancillary Service | Service provided (Y/N) | Switching controller (Y/N) | Maximum market ancillary service capacity (MW) | Minimum enablement level (MW) | Maximum enablement level (MW) | Maximum lower angle (Deg) | Maximum upper angle (Deg) |
| Very Fast Raise Service(RAISE1SEC) | [ ]  Yes[ ]  No | [ ]  Yes[ ]  No |       |       |       |       |       |
| Very Fast Lower Service(LOWER1SEC) | [ ]  Yes[ ]  No | [ ]  Yes[ ]  No |       |       |       |       |       |
| Fast Raise Service(RAISE6SEC) | [ ]  Yes[ ]  No | [ ]  Yes[ ]  No |       |       |       |       |       |
| Fast Lower Service(LOWER6SEC) | [ ]  Yes[ ]  No | [ ]  Yes[ ]  No |       |       |       |       |       |
| Slow Raise Service(RAISE60SEC) | [ ]  Yes[ ]  No | [ ]  Yes[ ]  No |       |       |       |       |       |
| Slow Lower Service(LOWER60SEC) | [ ]  Yes[ ]  No | [ ]  Yes[ ]  No |       |       |       |       |       |
| Delayed Raise Service(RAISE5MIN) | [ ]  Yes[ ]  No | [ ]  Yes[ ]  No |       |       |       |       |       |
| Delayed Lower Service(LOWER5MIN) | [ ]  Yes[ ]  No | [ ]  Yes[ ]  No |       |       |       |       |       |
| Regulating Raise Service(RAISEREG) | [ ]  Yes[ ]  No | [ ]  Yes[ ]  No |       |       |       |       |       |
| Regulating Lower Service(LOWERREG) | [ ]  Yes[ ]  No | [ ]  Yes[ ]  No |       |       |       |       |       |

## Controls, communications and telemetry information

### Dispatch instructions

Please describe the facilities installed to receive *dispatch instructions* for the *enablement* of each *ancillary service* from AEMO’s market systems. For example, how will the plant operator find out when the *ancillary services* are *enabled* by AEMO’s market systems? Does the plant operator have access to AEMO’s market systems, or does the plant operator rely on someone else telling them when necessary?

|  |
| --- |
|       |

### Communications and telemetry

Please describe the control facilities installed for each *ancillary service* in accordance with the *market ancillary service specification*, including communications and telemetry, where applicable. For example, are the fast and slow services to be provided by governor systems or under- or over-frequency relays? Are the regulating services to be provided in response to generation setpoints or raise/lower pulses? Is the plant controlled from a location other than the power station to provide these services?

|  |
| --- |
|       |

### Generating units

Please identify any *generating units* with switching controllers that share frequency comparison equipment such that they cannot use separate frequency settings. For example, which *generating units* (if any) share the same under- or over-frequency relay for initiating the *ancillary service* response?

|  |
| --- |
|       |

### Monitoring and recording

Please describe the monitoring and recording facilities installed for each *ancillary service* in accordance with the *market ancillary service specification*, including communications and telemetry, where applicable. What is the sampling interval of *active power* and *frequency* records?

|  |
| --- |
|       |

## FCAS dispatch instructions

Do you wish to receive 5-minute FCAS enabled dispatch instructions via SCADA in addition to instructions provided via the MMS Data Interchange[[8]](#footnote-9)? [ ]  Yes [ ]  No

If Yes, please acknowledge the following by checking the checkbox below.

[ ]  I understand and acknowledge the following:

AEMO’s primary interface for ancillary services dispatch instructions is either AEMO’s automatic generation control system (AGC) for regulation services only, or the MMS Data Interchange. Market Participants may choose to receive dispatch instructions via SCADA but must be aware that AEMO considers this a secondary system and cannot monitor successful transmission of SCADA signals.

|  |  |
| --- | --- |
| Reason if not attached: |       |

# Metering

Please clearly mark all attachments as "Attachment to Section H" and number each page consecutively.

Is the Applicant applying to be registered in respect of a *market generating unit*?

 Yes Complete the rest of this section

 No

## Connection point checklist

Ensure the Metering – Technical contact details have been completed and attached in Section C.

|  |  |
| --- | --- |
| General and technical details |  |
| Connection point NMI(s): |       |
| Date of last metering equipment test: |       |
| Copy of valid metering equipment test report: | [ ]  Attached |
| Person responsible for connection point: | Name:       Phone:      Email:      Participant ID:      Participant Name:       |
| Service providers: | Role ID | Participant ID | Participant Name |
| MDP / MPC |       |       |
| MPB |       |       |

If the metering equipment testing occurred over time, please specify the date each piece of the metering equipment was tested and identify each piece of equipment (e.g. meter, CT, VT).

# IT Systems

To allow connectivity to AEMO IT systems, you must provide the following information.

## MarketNet connection

For details regarding AEMOs private data network connection (MarketNet), options and entitlements, see the [Guide to Information Systems](https://www.aemo.com.au/-/media/Files/IT_Changes/Guide-to-Information-Systems.pdf) on AEMO’s website.

Do you require a new MarketNet connection? [ ]  Yes [ ]  No

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Connection types: | Primary: |  | Backup: |  |
| IT Technical Network Contact:       |
| Contact number:       | Email:       |

## IT Notifications email address

It is important to receive AEMO notifications regarding IT changes or outages that may impact your business.

Please have your IT staff set up and maintain a group email address with an appropriate distribution list of members for this to occur (individual email addresses are not accepted).

|  |  |
| --- | --- |
| IT Notifications email address: | <e.g. AEMOIT@yourdomain.com.au> |

1. Enter your preferred Participant ID. If already taken or if the field is left blank, one will be provided by AEMO. [↑](#footnote-ref-2)
2. [2] Australian Energy Regulator, Independent Pricing and Regulatory Tribunal of New South Wales, Essential Services Commission for Victoria, Queensland Competition Authority, Essential Services Commission for South Australia, Independent Competition and Regulatory Commission for the Australian Capital Territory, Economic Regulation Authority (Western Australia), Office of the Tasmanian Economic Regulator and Queensland Government - The Department of Natural Resources, Mines and Energy. [↑](#footnote-ref-3)
3. Decimal number must match the generating system nameplate rating recorded in the generator performance standard. Please note for photovoltaic systems, this is the sum of the AC nameplate ratings of the system’s inverters. [↑](#footnote-ref-4)
4. Maximum generation to which the generating unit may be dispatched, rounded down to the nearest whole MW and must match the generating system maximum capacity recorded in the generator performance standard. [↑](#footnote-ref-5)
5. Scalar decimal number, for *semi-scheduled generating units* must match the nameplate rating value recorded in the associated energy conversion model. [↑](#footnote-ref-6)
6. Scalar integer number, for *semi-scheduled generating units* must match the maximum capacity value recorded in the associated energy conversion model. [↑](#footnote-ref-7)
7. Generating units on remote AGC will receive AGC set-points via SCADA every control cycle (e.g. 4 seconds) and must respond to AGC set-points whenever enabled for Regulation FCAS. When a unit is enabled for both regulation and contingency FCAS, contingency FCAS takes priority over AGC set-points if a contingency event occurs until frequency has recovered. Refer to Section 6.9 of the Market Ancillary Service Specification (MASS). [↑](#footnote-ref-8)
8. Generating units on remote AGC will receive AGC set-points via SCADA every control cycle (e.g. 4 seconds) and must respond to AGC set-points whenever enabled for Regulation FCAS. When a unit is enabled for both regulation and contingency FCAS, contingency FCAS takes priority over AGC set-points if a contingency event occurs until frequency has recovered. Refer to Section 6.9 of the MASS. [↑](#footnote-ref-9)