|  |
| --- |
| APPLICATION FORM |
| Application for Registration as a Generator in the NEM |

Please complete this Application Form using the corresponding 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 (*Rules* or NER) 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](mailto: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.

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Application overview

Complete this Application Form (this Form) to apply for registration in the National Electricity Market (*NEM*) as a *Generator*.

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

For help in completing this Form, refer to the appropriate [Application Guide](https://aemo.com.au/-/media/files/electricity/nem/participant_information/registration/generator/nem-generator-registration-guide.pdf?la=en) available on the AEMO website.

# Participant Category

This Form is for those who want to register as a *Generator* or classify a *generating unit* in the *NEM*.

|  |  |
| --- | --- |
| New *Generator*[[1]](#footnote-2) | The Applicant is applying to register as a *Generator* in the *NEM*.  (Complete sections A–J) |
| Existing *Generator* applying to classify *generating unit* | The Applicant is a registered *Generator* in the *NEM* and is applying to classify a *generating unit*. (Complete sections A–F and J) |

# Application Details

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

## Applicant details

|  |  |  |  |
| --- | --- | --- | --- |
| Entity Name: |  | | |
| ABN: |  | ACN: |  |
| Participant ID[[2]](#footnote-3): |  | | |
| Expected Date of activity commencement: |  | | |

## Applicant association

The Applicant’s association with the *generating system* is as follows (mark all that apply):

Controller

Operator

Owner

Otherwise sources electricity from the *generating system*

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

Intermediary (complete information in B.3)

## Consent to act as an intermediary

The Applicant consents to act as an *Intermediary* for the following persons who own, control and/or operate the *generating system*, and who have nominated the Applicant to act as its *Intermediary*. Each party for which the Applicant is acting as an *intermediary* will need to submit an exemption application form.

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

## Applicant declaration

The Applicant is applying to become a *Registered Participant* in the NEM being managed by AEMO under the NER.

The Applicant declares that the Applicant authorises, approves and accepts that, in respect of this application and any related future application:

* AEMO may communicate with any person, as appropriate, including to verify information.
* AEMO may treat any communication on the Applicant’s behalf, whether physical, or electronic through a login to AEMO’s systems (including using access rights given by a Participant Administrator), as being by or to a person who is the Applicant’s:
  + authorised officer;
  + delegate, appointed by the Applicant’s authorised officer; or
  + agent, appointed by the Applicant’s authorised officer (including as registration contact in respect of the application), without AEMO requiring a separate letter of authority in this regard.
* AEMO may rely on any such communication, as being:
  + given by the Applicant, when given by the person;
  + given to the Applicant, when given to the person;
  + the Applicant’s in respect of any acts, omissions, statements, representations and notices;
  + instructed by the Applicant, regardless of whether any such instruction has been given, or its terms; and
  + complete, true and correct.

I, <Full Name>, <Position>, declare that I am authorised by the Applicant to submit this Application on the Applicant's behalf and certify that the contents of this Application and any further submissions are true and correct.

|  |  |  |  |
| --- | --- | --- | --- |
| Signature: |  | Date: | 28/02/2024 |

# Contact Details

Please clearly mark all attachments as "Attachment to 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: | |  | | | Fax: | |  | |
| Backup phone: | |  | | | Other: | |  | |
| Email: | |  | | | | | | |
| Trading Room (24/7 bidding operations, must be contactable 24/7) | | | | | | | | |
| Primary phone: | |  | | | Fax: | |  | |
| 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 |  |
| Registration |  |  | Metering Coordinator |  |
| SCADA |  |  | Metering Responsible Person |  |
|  |  |  | Prudentials – Primary |  |
|  |  |  | Prudentials – Secondary |  |
|  |  |  | Settlements - Manager |  |
|  |  |  | Senior to Settlements manager |  |

| 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 >5 MW | |  |
| Operations – Manager (24/7) |  |  |
| 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: |  |

## Financial viability

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: |  |

## 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

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

## Market Participant Criteria

The Applicant declares that it is:

A resident in, or have permanent establishment in Australia

Not immune from suit in respect of the obligations of the Market Participant under the Rules; and

Capable of being sued in its own name in the court of Australia.

## 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 that do not meet 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

Complete this [Recipient Created Tax Invoice agreement](https://www.aemo.com.au/-/media/files/about_aemo/recipient-created-tax-invoice-agreement.docx?la=en) for the issue of recipient-created tax invoices. Provide two original signed copies of this agreement.

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

## Austraclear

AEMO uses an external electronic funds transfer system provided by Austraclear. 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: |  |

# 

# Generating System

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

## System details

Please refer to the [Application Guide](https://aemo.com.au/-/media/files/electricity/nem/participant_information/registration/generator/nem-generator-registration-guide.pdf?la=en) when completing this section.

Go to Appendix A: Additional Generating System Information to add more generating system information.

Note: the table below is formatted for a *generating system* containing two dispatchable units with a single generating unit set within each dispatchable unit.

|  |  |  |  |
| --- | --- | --- | --- |
| Power station Name |  | | |
| Station ID[[3]](#footnote-4) (Max 8 characters) |  | | |
| Site location | Address: | | |
| City: | State: | Postcode: |
| Nameplate rating of *generating system* (MW)[[4]](#footnote-5) |  | | |
| Maximum capacity of *generating system* at connection point (MW)[[5]](#footnote-6) |  | | |

Does the *generating system* meet the definition of an *integrated resource system* under the *National Electricity Amendment (Integrating energy storage systems into the NEM*) Rule 2021.[[6]](#footnote-7)That is, does it contain one or more *bidirectional units* as defined in that amending rule?

Note:Before completing your response, please ensure you check and understand the definition of an ‘integrated resource system’ and a ‘bidirectional unit’ in the amending rule.

Yes

No

If yes, please either:

* identify any *bidirectional units* in the information provided under **E.1.2**; and/or
* indicate whether any *generating units* will include non-scheduled *load* behind the *meter* at the same *connection point* (other than *auxiliary load*).  Yes, or  N/A

By submitting this application form, you are taken to request AEMO’s approval to classify those units, from the ‘effective date’ referred to in clause 11.145.3 of the *Rules*[[7]](#footnote-8), as *bidirectional units* with the same scheduling and market classifications as approved on registration. On registration as a *Generator* in respect of the *integrated resource system*, you will be a ‘New IRS Participant’ for the purposes of clause 11.145.3.

### DUID

|  |  |  |
| --- | --- | --- |
| Dispatchable unit name (Max 20 characters) |  |  |
| Dispatchable unit identifier (DUID, max 8 characters)[[8]](#footnote-9) |  |  |
| *Nameplate rating* of dispatchable unit (MW)[[9]](#footnote-10) |  |  |
| Maximum Capacity of the dispatchable unit at *dispatch point* (MW)[[10]](#footnote-11) |  |  |
| *Maximum ramp rate* targetof the dispatchable unit (MW/min)[[11]](#footnote-12) |  |  |
| Classification of *generating unit* | Scheduled  Fast start  Slow start  Semi-Scheduled  Non-Scheduled | Scheduled  Fast start  Slow start  Semi-Scheduled  Non-Scheduled |

### Generating unit sets

|  |  |  |
| --- | --- | --- |
| Generating unit set ID3 (max 8 characters) |  |  |
| Number of physical units in this generating unit set |  |  |
| *Nameplate rating* of each unit in this generating unit set (MW)[[12]](#footnote-13) |  |  |
| Maximum capacity of each unit in this generating unit set (MW)12 |  |  |
| Type | Generator  Bidirectional  Aux Load | Generator  Bidirectional  Aux Load |
| Classification (Market / Non-Market) | Market  Non-Market | Market  Non-Market |
| Metering installation NMI |  |  |
| Connection point voltage (kV) |  |  |
| Primary fuel source[[13]](#footnote-14) |  |  |
| Primary fuel source13 descriptor |  |  |
| Primary technology |  |  |
| Primary technology descriptor |  |  |

## Scheduled generating units

Please complete this section if any of the dispatchable units above comprise of one or more *scheduled generating units*.

Do you wish to aggregate any of the *scheduled generating units* for the purpose of *central dispatch* in accordance with NER clause 3.8.3?

Yes, please complete section E.2.1

No, continue to section E.3

### Aggregated scheduled generating units

If any of the dispatchable units above contain multiple *scheduled generating units*, please mark to confirm you have attached information in support of each of the following requirements:

Aggregated *generating units* are connected at a single site with the same intra-regional loss factor and operated by a single *Scheduled* *Generator*

*Power system security* will not be materially affected by aggregation of *generating units*

*Control systems* will satisfy the *Rules*

Communication protocolsfor operational control between *AEMO* and the proposed aggregated *generating units* will satisfy the *Rules*

## Semi-scheduled generating units

If you intend to classify units as *semi*-*scheduled generating units,* please provide an *energy conversion model* in accordance with the guidelines available on the AEMO website.

I have provided an *energy conversion model*

If any of the dispatchable units above contain multiple *semi-scheduled generating units,* please mark to confirm you have attached information in support of each of the following requirements:

Units are *connected* at a single site with the same *intra-regional loss factor*

Each unit has a capacity of not more than 6 MW

Each unit has a similar *energy conversion model*

## Non-scheduled generating units

Please complete this section only if you intend to classify units as *non*-*scheduled generating units*.

On what basis are you applying to classify *generating units* as *non-scheduled*?

Do the *generating units* being classified as *non-scheduled* have *nameplate ratings* less than 30 MW or less than 5 MW if they are part of a battery system? Or;

Supporting evidence is attached

The physical and technical attributes of the *generating unit* are such that it is not practicable for it to participate in central dispatch.

Supporting evidence is attached

Please note, *Non-Scheduled Generators* may be required to comply with some obligations of *Scheduled Generators* or *Semi-Scheduled Generators* as a condition of registration. For example, if the *generating unit* output is *intermittent*, you may be required to provide an *energy conversion model*.

## Status and duration

|  |  |
| --- | --- |
| Has all or part of the *generating system* been previously commissioned? | Yes No |
| Expected date of first energisation at *connection point*: |  |
| Target registration date: |  |

For Scheduled or Semi-Scheduled Generators, acknowledge that you must provide the *expected closure year* [[14]](#footnote-15) 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*.

Please note in accordance with the *Rules*, commissioning plans must be submitted:

* 3 months prior to commencement of commissioning for transmission-connected systems
* 1 month prior to commencement of commissioning for distribution-connected systems

## Operational and system readiness

Are you applying to classify generating units as scheduled or semi-scheduled?  Yes  No

If Yes, I have provided the following:

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 Applicant will receive and immediately act upon dispatch instructions for physical plant operations on a 24/7 basis,
* how the Applicant 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).

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

## Energy dispatch instructions

Please complete this section if you intend to classify units 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[[15]](#footnote-16)?  Yes  No

If Yes,

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: |  |

## Aggregated dispatch conformance

Please complete this section if you intend to register two or more DUIDs within a *generating system* or part of a *generating system* as an Aggregate System, in accordance with AEMO’s [SO\_OP\_3075 Dispatch Procedure](https://aemo.com.au/-/media/files/electricity/nem/security_and_reliability/power_system_ops/procedures/so_op_3705-dispatch.pdf?la=en), for the purpose of aggregated dispatch conformance (ADC). If you are registering a *generating system* that only comprises batteries classified as a *scheduled generating unit* and *scheduled load* pair, you must complete this section.[[16]](#footnote-17)

I understand and acknowledge the following:

In accordance with SO\_OP\_3075 Dispatch Procedure, AEMO will determine whether the Aggregate System is a Cap Aggregate, a Mixed Aggregate or a Target Aggregate.

All units in the Aggregate System must be capable of linear ramping, in aggregate and individually, if individual dispatch conformance is required.

All units in the Aggregate System must be part of the same *generating system*.

Will the *generating system* comprise one aggregate dispatch group (ADG)?

Yes

Will the ADG comprise of more than four DUIDs?

No, complete section E.8.1 only.

Yes, complete section E.8.1 with four of the constituent DUIDs and Appendix A.3 with the other DUIDs, using the same ADGID.

No, complete section E.8.1 for the first ADG and Appendix A.3 for each additional ADG and if required, additional DUIDs for section E.8.1.

### ADG details

|  |  |  |  |
| --- | --- | --- | --- |
| Aggregate Dispatch Group identifier (ADGID)[[17]](#footnote-18) |  | | |
| ADG constituent DUIDs[[18]](#footnote-19) | DUID Name | DUID | DUID Classification |
|  |  | Scheduled generating unit  Semi-scheduled generating unit  Scheduled load |
|  |  | Scheduled generating unit  Semi-scheduled generating unit  Scheduled load |
|  |  | Scheduled generating unit  Semi-scheduled generating unit  Scheduled load |
|  |  | Scheduled generating unit  Semi-scheduled generating unit  Scheduled load |
| Primary DUID for causer pays factor[[19]](#footnote-20) |  | | |

# Classification as a Market Generating Unit

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

## Registration category

*Non-Market Generator*

I declare that the electricity generated by the *generating system* will not be *sent out* to the *spot market*

Go to Section G.

*Market Generator*

I declare that I will sell all sent out generation through the spot market and accept payments from AEMO for sent out generation at the spot price applicable at the connection point; and purchase all electricity supplied through the national grid to the Market Generator at that connection point from the spot market and make payments to AEMO for such electricity supplied at the connection point as determined for each trading interval.

Continue to Section F.2.

## Use of electricity purchased from the NEM

Will electricity drawn from the *NEM* be used only for the purposes of generation in connection with the *generating system*? Refer to Appendix 1 of the [Application Guide](https://aemo.com.au/-/media/files/electricity/nem/participant_information/registration/generator/nem-generator-registration-guide.pdf?la=en)toselect the relevant example that demonstrates the situation in which the *Generator* consumes electricity. This information is used to determine if *Market Customer* registration is also required.

Yes Provide supporting documentation and continue to Section F.3

No Complete Section F.4

## Connection to the network

Are all the *generating system’s connection points* part of its connection to the *network*?

Yes Provide supporting documentation and then go to Section G

No Complete Section F.4

## Financially Responsible Market Participant

(Only required if answers in Sections F.2 or F.3 is ‘No’)

|  |
| --- |
| Name of the person who will be financially responsible for *load*: |

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

# Compliance with Technical Requirements

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

## Exemption from technical requirements of Chapter 5

Is the Applicant claiming exemption from the technical requirements of Chapter 5?

Yes Provide evidence that the Applicant is eligible for the standing exemption from registration for this *generating system* (refer to AEMO’s [Guide to Generator Exemptions and Classification of Generating Units](https://aemo.com.au/-/media/Files/Electricity/NEM/Participant_Information/New-Participants/Generator-Exemption-and-Classification-Guide.docx)).

No

## Existing generating systems

Is the *generating system* currently classified by a *Registered Participant* in the *NEM*?

Yes

No

## Technical information submission

For existing *generating system*,

Please attach the current registered *performance* *standards* for the *generating system* and provide at least one of the following:

historical evidence such as performance during power system incidents; or

power system studies (e.g. computer simulations).

For new generating system or addition of new generating units to existing generating system,

Please attach the *performance* *standards* for the new or modified *generating system.*

Please confirm the R1 technical information for the new or modified *generating system* has been submitted to *Network Service Provider* and AEMO.

Date sent:

# Local Black System Procedures

Please enclose an updated version of the *local black system procedures* for each relevant *generating system* as an attachment to this section.

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

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

# Connection point, Metering and Network Connection

## Connection point Details

Please refer to the [Application Guide](https://aemo.com.au/-/media/files/electricity/nem/participant_information/registration/generator/nem-generator-registration-guide.pdf?la=en) when completing this section.

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

Connection point details

|  |  |
| --- | --- |
| Connection point NMI(s) |  |
| Are there Special Site or Technology Related Conditions? | Yes  No  (If Yes, provide details -  Attached) |
| Physical address of connection point |  |
| Physical location of connection point |  |
| Single line (schematic) diagram of the installation showing the connection point and revenue metering installation | Drawing number:  Attached |
| The distance between the Connection point and the revenue metering installation |  |
| Detailed wiring diagram of the metering installation | Drawing number:  Attached |
| Distribution or transmission area diagram showing the generation system’s relativity to TNI | Drawing number:  Attached |

Distribution loss factor (if generating system is >10 MW and connected to the distribution network)

|  |  |
| --- | --- |
| DLF Code: |  |
| DLF Value: |  |
| AER Approval letter | Attached |

Generation capacity

|  |  |
| --- | --- |
| Feeder capacity | MVA or       Amps |
| Transformer capacity | MVA |
| Generator capacity | MVA        MW        pf |
| Annual Energy Generation | MWh |

## Network Connection Details

|  |  |
| --- | --- |
| Is the Connection Point connected to a Network other than a Registered Transmission or Distribution Network? | Yes  No  If Yes, state what type of Network: |
| Is this generating system connected to a Dedicated Connection Asset (DCA)? | Yes  No |
| Is this generating system connected to an existing Dedicated Connection Asset? | Yes  No  If Yes: has the connection point been negotiated within the existing DCA or is it at the existing DCA connection to the regulated transmission network? |
| Is this generating system connected to a Designated Network Asset (DNA)? | Yes  No  If Yes: please provide an SLD illustrating both the point of connection to the DNA and the boundary point (point where DNA meets regulated transmission network). |
| Regulated transmission node location name and voltage level |  |
| If generating system is connected to a distribution network or non-transmission Network type, provide the NMI(s) located at the Transmission node |  |

## Metering Details

### Revenue metering installation details

Metering Coordinator

|  |  |
| --- | --- |
| Detail |  |

Metering Installation

|  |  |
| --- | --- |
| Metering Installation Type (S7.2.3): |  |

Meter Details

|  |  |
| --- | --- |
| Meter serial number |  |
| Meter make and model |  |
| Pattern approval certification number |  |
| Meter class accuracy |  |
| Is meter bi-directional | Yes  No |
| Current rating: | Amps |
| Meter test results | Attached |

Current transformer (CT) details

|  |  |
| --- | --- |
| CT serial number | 1  2  3 |
| CT ratios available |  |
| CT connected ratio |  |
| CT burden (rated) | VA |
| CT class |  |
| CT test results | Attached |

Voltage transformer (VT) details

|  |  |
| --- | --- |
| VT arrangement | 3 x 1 Ph VT or  3 Ph VT |
| VT serial number | 1  2  3 |
| VT ratio | KV /       V |
| VT burden (rated) | VA |
| VT class |  |
| VT test results | Attached |

### Check metering installation details

Meter Details

|  |  |
| --- | --- |
| Meter serial number |  |
| Meter make and model |  |
| Pattern approval certification number |  |
| Meter class accuracy |  |
| Is meter bi-directional | Yes  No |
| Current rating | Amps |
| Meter test results | Attached |

Current transformer (CT) details

|  |  |
| --- | --- |
| CT serial number | 1  2  3 |
| CT ratios available |  |
| CT connected ratio |  |
| CT burden (rated) | VA |
| CT class |  |
| CT test results | Attached |

Voltage transformer (VT) details

|  |  |
| --- | --- |
| VT arrangement | 3 x 1 Ph VT or  3 Ph VT |
| VT serial number | 1  2  3 |
| VT ratio | KV /       V |
| VT burden (rated) | VA |
| VT class |  |
| VT test results | Attached |

### Participant relationships in MSATS

|  |  |  |
| --- | --- | --- |
| Role ID | Participant ID | Participant name |
| FRMP |  |  |
| LNSP |  |  |
| LR |  |  |
| MDP / MPC |  |  |
| MPB |  |  |
| MC |  |  |
| ROLR |  |  |

## Attachments

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

* Logical NMI – Algorithm
* Single Line (Schematic)
* Detailed Wiring diagram of the Metering Installation
* Distribution or transmission area drawing
* Distribution Loss Factor from the Australian Energy Regulator (AER)
* Meter Test Result
* Current Transformer Test Results
* Voltage Transformer Test Results

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

# IT Systems

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

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

## 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/market-it-systems/guide-to-information-systems.pdf?la=en) 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> |

## e-Hub Access

Note:All *Generators* must complete this section.

For details regarding access to the e-Hub (using APIs), obtaining new certificates and submitting a Certificate Signing Request (CSR), please see the [TLS Certificate Management](https://portal.aemo.com.au/help/Content/TLSCertificateManagement/TLSCertificateManagement.html) guide.

Access to e-Hub GeneratorRecall is optional for *Scheduled Generators*.

Access to e-Hub selfForecast is optional for *Semi-Scheduled Generators*.

Access to e-Hub NEMDispatchBidding is optional for all generators or loads that are required to participate in central dispatch.

Do you require e-Hub access?  Yes  No

|  |
| --- |
| Inbound IP range: |

1. Additional Generating System Information

Use this section if you are unable to show all details in Section E.1 System details.

Please refer to the [Application Guide](https://aemo.com.au/-/media/files/electricity/nem/participant_information/registration/generator/nem-generator-registration-guide.pdf?la=en) when completing this section.

|  |  |  |  |
| --- | --- | --- | --- |
| Power station Name |  | | |
| Station ID[[20]](#footnote-21) (Max 8 characters) |  | | |
| Site location | Address: | | |
| City: | State: | Postcode: |
| Nameplate rating of generating system (MW)[[21]](#footnote-22) |  | | |
| Maximum capacity of *generating system* at connection point (MW)[[22]](#footnote-23) |  | | |

* 1. DUID

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Dispatchable unit name (Max 20 characters)  Note: Please copy this section if more DUID are required |  |  |  |  |
| Dispatchable unit identifier (DUID, max 8 characters)[[23]](#footnote-24) |  |  |  |  |
| *Nameplate rating* of dispatchable unit at the *connection point* (MW)[[24]](#footnote-25) |  |  |  |  |
| Maximum Capacity of the dispatchable unit at the *connection point* (MW)[[25]](#footnote-26) |  |  |  |  |
| *Maximum ramp rate* targetof the dispatchable unit (MW/min)[[26]](#footnote-27) |  |  |  |  |
| Classification of *generating unit* | Scheduled  Fast start  Slow start  Semi-Scheduled  Non-Scheduled | Scheduled  Fast start  Slow start  Semi-Scheduled  Non-Scheduled | Scheduled  Fast start  Slow start  Semi-Scheduled  Non-Scheduled | Scheduled  Fast start  Slow start  Semi-Scheduled  Non-Scheduled |

* 1. Generating unit sets

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Generating unit set ID3 (max 8 characters) |  |  | |  |  |
| Number of physical units in this generating unit set |  |  | |  |  |
| *Nameplate rating* of each unit in this generating unit set (MW)[[27]](#footnote-28) |  |  | |  |  |
| Maximum capacity of each unit in this generating unit set (MW)12 |  |  | |  |  |
| Type | Generator  Bidirectional  Aux Load | Generator  Bidirectional  Aux Load | | Generator  Bidirectional  Aux Load | Generator  Bidirectional  Aux Load |
| Classification (Market / Non-Market) | Market  Non-Market | Market  Non-Market | | Market  Non-Market | Market  Non-Market |
| Metering installation NMI |  |  | |  |  |
| Connection point voltage (kV) |  |  | |  |  |
| Primary fuel source[[28]](#footnote-29) |  |  | |  |  |
| Primary fuel source13 descriptor |  |  | |  |  |
| Primary technology |  |  | |  |  |
| Primary technology descriptor |  |  | |  |  |
| Do you want this generating system to respond to Automatic Generation Control (AGC) set-points from AEMO for the purposes of Regulation FCAS? | | | Yes  No | | |

* 1. Additional ADG details

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Aggregate Dispatch Group identifier (ADGID)[[29]](#footnote-30) |  | | |  | | |
| ADG constituent DUIDs[[30]](#footnote-31) | DUID Name | DUID | DUID Classification | DUID Name | DUID | DUID Classification |
|  |  | Scheduled generating unit  Semi-scheduled generating unit  Scheduled load |  |  | Scheduled generating unit  Semi-scheduled generating unit  Scheduled load |
|  |  | Scheduled generating unit  Semi-scheduled generating unit  Scheduled load |  |  | Scheduled generating unit  Semi-scheduled generating unit  Scheduled load |
|  |  | Scheduled generating unit  Semi-scheduled generating unit  Scheduled load |  |  | Scheduled generating unit  Semi-scheduled generating unit  Scheduled load |
|  |  | Scheduled generating unit  Semi-scheduled generating unit  Scheduled load |  |  | Scheduled generating unit  Semi-scheduled generating unit  Scheduled load |
| Primary DUID for causer pays factor[[31]](#footnote-32) |  | | |  | | |

1. New Generators cannot classify generating units as ancillary services generating units until after registration. [↑](#footnote-ref-2)
2. If you are not using an existing Participant ID, enter your preferred Participant ID (maximum 8 characters). If already taken or if the field is left blank, one will be provided by AEMO. NOTE: If an additional Participant ID is required, an additional fee will be charged per the Electricity Market Revenue Requirement and Fee Schedule. [↑](#footnote-ref-3)
3. Please suggest an ID on initial form submission. AEMO will request you update this field if necessary. [↑](#footnote-ref-4)
4. 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-5)
5. 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-6)
6. As made by the AEMC on 2 December 2021 with transitional provisions effective from 9 December 2021. Rule available at: <https://aemc.gov.au/rule-changes/integrating-energy-storage-systems-nem> [↑](#footnote-ref-7)
7. As at the time of last publishing this form, the effective date is 3 June 2024. [↑](#footnote-ref-8)
8. Please suggest an ID on initial form submission. AEMO will request you update this field if necessary. [↑](#footnote-ref-9)
9. Scalar decimal number, for *semi-scheduled generating units* must match the nameplate rating value recorded in the associated energy conversion model. [↑](#footnote-ref-10)
10. Scalar integer number, for *semi-scheduled generating units* must match the maximum capacity value recorded in the associated energy conversion model. [↑](#footnote-ref-11)
11. Scalar integer number. [↑](#footnote-ref-12)
12. Scalar decimal number. [↑](#footnote-ref-13)
13. A list of fuel sources and technologies is included in appendix 3 of the [Application Guide](https://aemo.com.au/-/media/files/electricity/nem/participant_information/registration/generator/nem-generator-registration-guide.pdf?la=en) [↑](#footnote-ref-14)
14. Refer to *Rules* clause 2.2.1(e)(2A) [↑](#footnote-ref-15)
15. 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-16)
16. In accordance with AEMO’s SO\_OP\_3075 Dispatch Procedure, AEMO will automatically register as a Target Aggregate a *generating system* that only comprises batteries classified as a *scheduled generating unit* and *scheduled load* pair for the purpose of dispatch conformance monitoring. [↑](#footnote-ref-17)
17. Record your ADGID, as your Station ID appended by \_ADG1. For each additional ADG, the associated ADGID must follow the same format and the appended number should increase sequentially. AEMO will request you update this field if necessary. [↑](#footnote-ref-18)
18. Where relevant, add DUID details from:

    section E.1.1 DUID of this application form; and

    section F.2 Dispatchable load details from your Customer registration form. [↑](#footnote-ref-19)
19. Causer pays system will aggregate all DUIDs within this application to the Primary DUID listed. [↑](#footnote-ref-20)
20. Please suggest an ID on initial form submission. AEMO will request you update this field if necessary. [↑](#footnote-ref-21)
21. 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-22)
22. 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-23)
23. Please suggest an ID on initial form submission. AEMO will request you update this field if necessary. [↑](#footnote-ref-24)
24. Scalar decimal number, for *semi-scheduled generating units* must match the nameplate rating value recorded in the associated energy conversion model. [↑](#footnote-ref-25)
25. Scalar integer number, for *semi-scheduled generating units* must match the maximum capacity value recorded in the associated energy conversion model. [↑](#footnote-ref-26)
26. Scalar integer number. [↑](#footnote-ref-27)
27. Scalar decimal number. [↑](#footnote-ref-28)
28. A list of fuel sources and technologies is included in appendix 3 of the [Application Guide](https://aemo.com.au/-/media/files/electricity/nem/participant_information/registration/generator/nem-generator-registration-guide.pdf?la=en) [↑](#footnote-ref-29)
29. Record your ADGID, as your Station ID appended by \_ADG1. For each additional ADG, the associated ADGID must follow the same format and the appended number should increase sequentially. AEMO will request you update this field if necessary. [↑](#footnote-ref-30)
30. Where relevant, add DUID details from section E.1.1 DUID of this application form and section F.2 Dispatchable load details from your Customer registration form. [↑](#footnote-ref-31)
31. Causer pays system will aggregate all DUIDs within this application to the Primary DUID listed. [↑](#footnote-ref-32)