

# Standing information request for 2024

January 2024

Information request to registered participants in accordance with NER clause 3.13.3A(d)





# Important notice

## Purpose

Under the National Electricity Rules (NER), AEMO must, by 31 August each year, prepare and publish a statement of opportunities for the NEM for the subsequent 10 year period, addressing specified information, including any update(s) (ESOO).

AEMO may, by written request, require Registered Participants to provide information that AEMO reasonably requires for it to prepare the ES00.

A Registered Participant must:

- comply with an information request in accordance with the Reliability Forecast Guidelines;
- ensure that: (i) the information provided is not false or misleading in a material particular; and (ii) technical information is prepared in accordance with good electricity industry practice; and
- advise AEMO as soon as practicable after becoming aware of any material change to any information AEMO requires for publication.

Consistent with the Reliability Forecast Guidelines, AEMO has prepared this document as a standing request published on AEMO's website to outline the information AEMO is requesting from Registered Participants (including when Registered Participants must provide the information to AEMO) for AEMO to prepare the 2024 ES00.

## Disclaimer

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# 1 Background

## 1.1 Purpose

To facilitate the accuracy of the Electricity Statement of Opportunities (ESOO), including the reliability forecast requirements under the National Electricity Rules (NER), AEMO requests information from Registered Participants in accordance with NER clause 3.13.3A. Information required to support the ESOO is requested and collected through a number of processes, including generation surveys and key connection information<sup>1</sup>, the demand side participation information portal<sup>2</sup>, this Standing Information Request and potential ad-hoc information requests.

This 2024 Standing Information Request asks for the same information from Network Service Providers (NSPs) and registered Generators as the 2022 and 2023 Standing Information Requests.

Since 2022, AEMO has requested additional information to address emerging information needs, to be provided on a voluntary basis; that is, without the compliance requirements listed below. The responses showed that processes for collecting this information are still under development in many places. As result, these requests remain voluntary in 2024. For transparency, the voluntary information requested is listed in this document.

## 1.2 Compliance requirement

The standing information in this document is requested in accordance with NER clause 3.13.3A(d) and section 3.3.2 of the Reliability Forecast Guidelines.<sup>3</sup>

Under NER clause 3.13.3A(e), a Registered Participant must comply with an information request in accordance with section 3.3.3 of the Reliability Forecast Guidelines. This includes responding within the relevant time specified in this request, identifying any confidential information, and taking steps to ensure the information complies with NER clause 3.13.3A(g), namely that it is:

- (1) not false or misleading in a material particular;
- (2) in relation to information of a technical nature, is prepared in accordance with good electricity industry practice; and
- (3) represents the Registered Participant's current intentions and best estimates.

## 1.3 Structure of this document

In this document:

- Section 2 presents the 2024 standing information sought from registered NSPs.

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<sup>1</sup> In accordance with the Generation Information Guidelines available at: <https://www.aemo.com.au/energy-systems/electricity/national-electricity-market-nem/nem-forecasting-and-planning/forecasting-and-planning-data/generation-information>.

<sup>2</sup> In accordance with the Demand Side Participation Information Guidelines available at: <https://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Planning-and-forecasting/Demand-Side-Participation-Information-Guidelines>.

<sup>3</sup> Available at: [https://aemo.com.au/-/media/files/electricity/nem/planning\\_and\\_forecasting/rsig/reliability-forecast-guidelines.pdf](https://aemo.com.au/-/media/files/electricity/nem/planning_and_forecasting/rsig/reliability-forecast-guidelines.pdf)

## *Background*

- Section 3 presents the 2024 standing information sought from registered Generators.
- Section 4 presents information on which AEMO in 2024 is seeking voluntary responses from registered NSPs.

## 2 Information request for registered NSPs

The following outlines the information requested under NER clause 3.13.3A(d) from registered network service providers (NSP).

### 2.1 Large transmission/distribution connected load information

#### 2.1.1 Information requested

AEMO will send all NSPs a list of its current information about their large customers. AEMO requests that each NSP:

- Validates AEMO's list of existing large customers (>5 MW potential peak<sup>4</sup>)
- Informs AEMO of changes to this list (prospective loads or closures)
- Ensures that data on loads from emerging technology categories such as hydrogen electrolysers and data centres, and loads due to electrification from other fuels are included in the data submitted (detailed notes are provided in the Excel list)

*Note that for Jurisdictional Planning Bodies, the information is requested under NER clause 3.13.3A(c).*

#### 2.1.2 Timeline for providing this information to AEMO

AEMO will provide the NSPs with its current list by **31 January 2024** and requests the information above by **29 February 2024**.

#### 2.1.3 Reason for the request

This information is requested to improve the quality of AEMO's large industrial load forecast, in particular by acting as a key source of information for ensuring that AEMO includes all known changes to large customer loads.

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<sup>4</sup> This will include large loads like desalination plants that may not operate all years, but has the potential to exceed this level when operating.

## 3 Information request for registered generators

The following outlines the information requested under NER clause 3.13.3A(d) from registered scheduled and/or semi-scheduled generators as specified below.

The main reason for this request is for AEMO to collect and use information about generating unit auxiliary loads and unplanned outage rates and publish information about these in accordance with NER 3.13.3A(a)(8).

### 3.1 Unplanned outage information

#### 3.1.1 Information requested

AEMO requests the historical unplanned outage information as has been requested since 2021, that is for scheduled generators to provide the timing and classification of unplanned outages at each scheduled unit over the previous 12 months.

As it has done since the 2021 ESOOs, AEMO will be including forward-looking projections of generator performance in the 2024 ESOO. For coal-fired generators and some gas-fired generators, participants will again be requested to provide forward-looking unplanned outage projections over the next 10 years, alongside a justification or evidence for these projections where they vary from historical parameters. Participants required to submit forward-looking projections will be contacted separately.

AEMO will be providing a template for this submission.

After receiving this information, AEMO will update its calculations of unplanned outage parameters and provide this information back to each generator participant to provide an opportunity to propose amendments to the calculated and projected outage parameters.

#### 3.1.2 Timeline for providing this information to AEMO

AEMO requests that scheduled generators provide the requested information, including forward looking projections (where required), by **3 May 2024**.

#### 3.1.3 Reason for the request

Unplanned outage information is requested in order to provide the data required to assess plant specific reliability. Forward-looking projections requested for nominated generators are required to allow AEMO to assess the potential changes to forward-looking plant reliability, where there is reason to believe it could differ from recent historically observed reliability.

## 3.2 Generating unit auxiliary load

### 3.2.1 Information requested

AEMO is requesting all existing and committed scheduled generators to provide an expected auxiliary load (as a percentage of generation). This value should reflect expected auxiliary load when a generator is at maximum output.

### 3.2.2 Timeline for providing this information to AEMO

The information is to be provided through AEMO's generator survey process<sup>5</sup>, and must be submitted before **5 April 2024** to feed into AEMO's April Generation Information Page update.

### 3.2.3 Reason for the request

Auxiliary load percentage is used in AEMO's PLEXOS market modelling process to simulate auxiliary load at any point in time across the forecast horizon, and therefore determine the volume of generation available to be "sent-out" to the grid.

This is also used to convert AEMO's demand forecasts that are prepared on "sent-out" demand to "as-generated" demand (the definitions used in the one-in-two year peak demand forecast AEMO must provide under the RRO).

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<sup>5</sup> For more information, see 3.1(d) in the Generation Information Guidelines available at: [https://www.aemo.com.au/-/media/files/electricity/nem/planning\\_and\\_forecasting/generation\\_information/final-generation-information-guidelines.pdf](https://www.aemo.com.au/-/media/files/electricity/nem/planning_and_forecasting/generation_information/final-generation-information-guidelines.pdf).



## 4 Information requested on a voluntary basis

The following represents emerging needs which are not listed as mandatory data requirements as:

- Data may not yet be collected and the feasibility and cost of collecting it is uncertain, or
- It is unclear if alternative data sources are available that can be used instead.

AEMO is asking for this information to be provided on a best-endeavours basis, or alternatively—if data is not available—with commentary about the feasibility about providing this information in the future or pointers to alternative data sources, which can address the data need listed.

### 4.1 Emerging information needs from DNSPs

AEMO is seeking the following information from DNSPs:

#### 4.1.1 Residential/business consumption and customer numbers

##### Information requested

AEMO is asking DNSPs to provide AEMO with customer volumes and numbers by customer group. This request covers historical actuals as well as estimates for 2023-24 and forecasts for 2024-25. The customer groups should align with tariff classes adopted in the AER's Annual Standard Control Services pricing models that support DNSP's annual pricing proposals.

##### Timeline for providing this information to AEMO

AEMO is seeking this information by **29 February 2024**.

##### Reason for the request

AEMO forecasts consumption separately for residential and business load. AEMO relies on the published consumption split from the AER for validation of these forecasts' starting point. Unfortunately, the AER reporting is 18 months old when published. It would improve the quality of AEMO's forecasts if more recent data could be made available.

#### 4.1.2 Electric Vehicle consumption and charge profiles

##### Information requested

AEMO is aware that some DNSPs are allowing electric vehicle (EV) owners to register their ownership with them. To help AEMO improve the forecasts of EV uptake and charging behaviours, AEMO is seeking detailed information and data on EVs where available. The data request is aligned with the priority 1 recommendations for individual devices from the Distributed Energy Integration Program (DEIP) EV Data Availability Taskforce<sup>6</sup>. Requested data is outlined below:

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<sup>6</sup> See [deip-ev-data-availability-taskforce-report.pdf \(aemo.com.au\)](https://www.aemo.com.au/deip-ev-data-availability-taskforce-report.pdf)

- A list of known NMIs of residential/commercial customers with an EV and, if available, when the EV was purchased.
- A list of known NMIs for EV fast charging stations (current or under construction). This should be limited to charging stations that are individually metered, rather than embedded for example under a larger load (such as a shopping centre or airport).
- A list of known NMIs for bus depots with known electric buses, and if possible, the year when electric buses were introduced.
- For the sites provided in the three bullet points above, if available, any of the following data:
  - The kW rating of the EV charger(s) associated with each NMI
  - The import/export capacity (and associated limits imposed on each EV charger).
  - The total number of EV chargers associated with each EV charging station.

### Timeline for providing this information to AEMO

AEMO is seeking this information by **29 February 2024**.

### Reason for the request

This information will allow validation of the charging profiles provided by AEMO's consultant (currently largely based on assumptions and overseas data) for both residential cars, buses and fast/highway charging on real Australian-specific observations.

## 4.1.3 Gas to electricity fuel switching

### Information requested

AEMO is asking DNSPs to provide overviews of any research or analysis they have undertaken into the replacement of gas appliances with electric appliances and its impacts on the usage of electricity in the residential and commercial sectors.

Examples of information that is of interest to AEMO includes:

- In areas supplied by reticulated gas, the proportion of new housing estates that are 'all electric', i.e., not connecting to the reticulated gas network
- Analysis of load profiles for customers connected to gas v. customers in the same geographic area not connected to gas
- Outcomes of gas and electric appliance surveys and how these may be changing over time
- Any examples of large commercial gas users switching their fuel source to electricity.

### Timeline for providing this information to AEMO

AEMO is seeking this information by **29 February 2024**.

### Reason for the request

This information will inform AEMO's short to medium-term non-transport sector electrification forecasts for energy consumption, maximum demand and minimum demand. Currently, there is limited information that compares households with all electric appliances to households in the same spatial location that have a mix of gas and electric appliances. Obtaining access to data-driven analysis on this topic will improve the quality of AEMO's forecasts.