







Spot Market Operations Timetable



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Current version release details

Version	Effective date	Summary of changes
1.9	3 June 2024	Minor and administrative changes to reflect National Electricity Amendment (Integrating energy storage systems into the NEM) Rule 2021 No.13 and National Electricity Amendment (Implementing integrated energy storage systems) Rule 2023 No.2. Updated template.

Note: There is a full version history at the end of this document.



1. Introduction

1.1. Purpose and scope

This is the *spot market* operations *timetable* (**Timetable**) made under clause 3.4.3 of the National Electricity Rules (**NER**).

The Timetable specifies who must do what by when in the *spot market*. The Timetable applies to AEMO and all *Registered Participants*.

This Timetable has effect for only the purposes set out in the NER. The NER and the National Electricity Law prevail over this Timetable to the extent of any inconsistency.

1.2. Definitions and interpretation

1.2.1. Glossary

Terms defined in the National Electricity Law and the NER have the same meanings in this Timetable unless otherwise specified in this clause.

Terms defined in the NER are intended to be identified in this Timetable by italicising them, but failure to italicise a defined term does not affect its meaning.

In addition, the words, phrases and abbreviations in the table below have the meanings set out opposite them when used in this Timetable.

Term	Definition
AEST	Australian Eastern Standard Time
CIR	Congestion information resource
EAAP	Energy adequacy assessment projection
EFT Provider	Electronic Funds Transfer provider
GELF	Generator Energy Limitation Framework
NER / Rules	National Electricity Rules
PASA	Projected assessment of system adequacy process
RSIG	AEMO's Reliability Standard Implementation Guidelines
RTGS System	Real-Time Gross Settlement system
Timetable	Spot market operations timetable
TNSP	Transmission Network Service Provider
Trading day	The 24-hour period from 0400 hrs to 0400 hrs the following day

1.2.2. Interpretation

The following principles of interpretation apply to this Timetable unless otherwise expressly indicated:

(a) This Timetable is subject to the principles of interpretation set out in Schedule 2 of the National Electricity Law.

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- (b) References to time are references to Australian Eastern Standard Time (**AEST**) in 24-hour format.
- (c) References to days are references based on *trading days*. "Day 0" refers to an arbitrary *trading day*. "Day ±x" refers to the *trading day*, or the calendar day that forms the major part of the *trading day*, which is x days after (+) or before (-) Day 0.

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2. Spot market operations timetable

2.1. Bids

Day	Time of Day (AEST)	Event	Provided by	Provided to	Period covered	Frequency	Comments	NER requirement
June		Provide bid validation data in accordance with Schedule 3.1 of the Rules.	Market Participants	AEMO	Next financial year	At least annually	Provide details of any changes to the data used to validate <i>dispatch bids</i> and <i>market ancillary service bids</i> . Note that any changes require notification to AEMO at least 6 weeks in advance.	Schedule 3.1
Day -2	12:30	Capacity notification for Day 0: capacity profile self-commitment/ de-commitment times energy availability ramp rates	Market Participants	AEMO	Day 0	Daily	Capacity profiles have a trading interval resolution. Only energy constrained scheduled generating units, energy constrained scheduled bidirectional units and energy constrained scheduled loads are required to provide energy limits. Only slow start scheduled generating units are required to provide estimated commitment / decommitment times. Scheduled bidirectional units are required to provide separate ramp rates for generation and consumption.	3.8.4, 3.8.17, 3.8.18
Day -1	12:30	Bidding closes for Day 0. Bids contain the quantities specified under clauses 3.8.6, 3.8.6A, 3.8.7, 3.8.7A and 3.8.7B of the Rules, including: • prices for each band • quantities in each band	Market Participants	AEMO	Day 0	Daily	Price bands in bids for Day 0 cannot be changed after 12:30 Day -1.	3.8.5, 3.8.6, 3.8.6A, 3.8.7, 3.8.7A, 3.8.7B
Day -1 to Day 0	From 12:30 Day -1 to the end of Day 0	Rebidding.	Market Participants	AEMO	Day 0	Ongoing	Rebids must include a brief, verifiable and specific reason for the rebid and the time of the event cited as the cause of the rebid.	3.8.22



Day	Time of Day (AEST)	Event	Provided by	Provided to	Period covered	Frequency	Comments	NER requirement
Ongoing		Acknowledge receipt of a valid dispatch bid or market ancillary service bid, and the data contained in the bid as it will be used in dispatch. Provide the reason(s) for rejection if the bid is invalid.	AEMO	Market Participants		Ongoing	Without delay on receipt of a bid or rebid.	3.8.8
Ongoing		Default dispatch bids or market ancillary service bids to the last valid bid.	Market Participants	AEMO	Trading days where no valid daily bid has been submitted for.	Ongoing		3.8.9
Ongoing		Submit each semi-scheduled generating unit plant availability if it differs more than 6 MW from the nameplate rating. Subsequent notification to advise its return to within 6 MW of the nameplate rating.	Market Participants	AEMO	Day 0 to period covered by medium term PASA.	As frequently as changes occur.	As soon as the Semi-Scheduled Generator becomes aware of the change.	3.7B(b)

2.2. PASA

Day	Time of day (AEST)	Event	Provided by	Provided to	Period covered	Frequency	Comments	NER requirement
Ongoing		Submit data for short term PASA, including: scheduled generating unit, scheduled bidirectional unit, wholesale demand response unit, scheduled load, and scheduled network service PASA availability planned network outages.	Market Participants	AEMO	6 trading days from the end of the trading day covered by the most recent 30-minute predispatch schedule.	As frequently as changes occur.	30-minute resolution. AEMO converts network outage information into constraints.	3.7.3(e), (f), (g)
Daily	14:00	Publish short term PASA, including load forecasts for each region.	AEMO	Registered Participants	6 trading days from the end of the trading day	Daily as a minimum Rules requirement.	Short term PASA is provided in 30-minute resolution.	3.7.3(a), (b), (h), 3.13.4(d), 4.9.1(a)(2)



Day	Time of day (AEST)	Event	Provided by	Provided to	Period covered	Frequency	Comments	NER requirement
					covered by the most recent 30-minute predispatch schedule.	Current system target is hourly.		
Ongoing		Submit data for medium term PASA, including: scheduled generating unit, scheduled bidirectional unit, scheduled load, and scheduled network service PASA availability planned network outages	Market Participants	AEMO	Up to 36 months from the Sunday after the day of publication.	As frequently as changes occur.	Daily resolution. Scheduled generating units and scheduled bidirectional units provide 36 months of data. Scheduled loads and scheduled network services provide 24 months of data. AEMO converts network outage information into constraints.	3.7.2(d), (e)
Tuesday	16:00	Publish <i>medium term PASA</i> outputs, including <i>load</i> forecasts for each <i>region</i> .	AEMO	Registered Participants	24 months from the Sunday after the day of publication.	Weekly as a minimum Rules requirement. More frequently if a materially significant change exists.	Medium term PASA is provided in daily resolution.	3.7.2(a), (b), (f)(1)-(6), 3.13.4(b), 4.9.1(a)(3)
Monday to Saturday	Generally 9:00, 12:00, 15:00, 18:00	Publish aggregate PASA availability of generating units and bidirectional units to produce electricity for each region and PASA availability of each scheduled generating unit and scheduled bidirectional unit.	AEMO	Registered Participants	36 months from the Sunday after the day of publication.	Weekly as a minimum Rules requirement. Current system target is four times each day from Monday to Saturday	Medium term PASA is provided in daily resolution.	3.7.2(f)(5), 3.13.4(b)

2.3. Dispatch and pre-dispatch

Day	Time of day (AEST)	Event	Provided by	Provided to	Period covered	Frequency	Comments	NER requirement
Day -1	After 12:30, and no later than 16:00	Prepare the 30-minute period pre-dispatch schedule.	AEMO	Registered Participants	Current 30- minute period until end of Day 0.	Each 3 hours as a minimum Rules requirement. Current system	30-minute <i>pre-dispatch schedule</i> is provided in half hourly resolution.	3.8.204.9.1(a)(1)



Day	Time of day (AEST)	Event	Provided by	Provided to	Period covered	Frequency	Comments	NER requirement
						target is half hourly.		
Day 0	Every 5 minutes	Run dispatch.	AEMO	Market Participants	Current trading interval	Every 5 minutes.	Dispatch uses latest bids and rebids.	3.8.21
Day 0	Every 5 minutes	Prepare the five-minute <i>pre-dispatch schedule</i> .	AEMO	Registered Participants	At least the next hour	Every 5 minutes.	Five-minute <i>pre-dispatch schedule</i> is provided in <i>trading interval</i> resolution.	3.8.20

2.4. Market information

Day	Time of day (AEST)	Event	Provided by	Provided to	Period covered	Frequency	Comments	NER requirement
Tuesday	16:00	Publish outcome of <i>medium term PASA</i> .	AEMO	Registered Participants	24 months from the Sunday after the day of publication.	Weekly as a minimum Rules requirement.	Medium term PASA is provided in daily resolution.	3.13.4 (a)
Day 0	14:00	Publish outcome of short term PASA.	AEMO	Registered Participants	6 trading days from end of trading day covered by most recent 30-minute pre- dispatch schedule.	Daily as a minimum Rules requirement. Current system target is hourly.	Short term PASA is provided in half-hourly resolution.	3.13.4 (c)
Day -1	After 12:30 and no later than 16:00	Publish 30-minute <i>pre-dispatch</i> schedule, including forecast spot prices and ancillary service prices at each regional reference node.	AEMO	Registered Participants	Current 30- minute period until end of Day 0	Every 3 hours as a minimum Rules requirement. Current system target is half hourly.	30-minute <i>pre-dispatch</i> schedule is provided in half-hourly resolution.	3.13.4 (e) - (g), (i), (j), 3.13.4A(a), (c)
Day -1	After 12:30 and no later than 16:00	Publish expected sensitivity of the forecast <i>spot prices</i> to changes in the forecast <i>load</i> or <i>generating unit or bidirectional unit</i> availability.	AEMO	Registered Participants	Current 30- minute period until end of Day 0	Every 3 hours as a minimum Rules requirement. Current system target is half hourly.	Sensitivity forecast of spot prices is based on the 30-minute pre-dispatch schedule and provided in half-hourly resolution.	3.13.4 (h)



Day	Time of day (AEST)	Event	Provided by	Provided to	Period covered	Frequency	Comments	NER requirement
Day 0	Every 5 minutes	Publish 5-minute pre-dispatch schedule, including forecast spot prices and ancillary service prices at each regional reference node.	AEMO	Registered Participants	At least the next hour	Every 3 hours as a minimum Rules requirement. Current system target is every 5 minutes.	Five-minute <i>pre-dispatch schedule</i> is provided in <i>trading interval</i> resolution.	3.13.4 (f), (g), 3.13.4A(a)
Day 0	Within 5 minutes of AEMO running dispatch algorithm	Publish inter-regional flows and spot prices and ancillary service prices for each regional reference node.	AEMO	Registered Participants	Current trading interval	Every 5 minutes.		3.13.4 (I), (n1)
Day 0	Within 5 minutes after start of last trading interval in a 30-minute period	Publish 30-minute prices for each regional reference node.	AEMO	Registered Participants	Current 30-minute period	Every half hour.		3.13.4(I1)
Day 0	Within 5 minutes of conclusion of trading interval	Publish regional reference prices for each region.	AEMO	Registered Participants	Last trading interval	Every 5 minutes.		3.13.4 (m)
Day +1	At start of trading day	Publish regional reference prices, ancillary service prices, MW load and generation for each region and the power system, interregional loss factors, and network constraints for Day 0.	AEMO	Registered Participants	Day 0	Daily	5-minute resolution.	3.13.4(n)
Day +1	At start of trading day	Publish dispatch bids and market ancillary services bids received, as well as actual availabilities of scheduled resources and market ancillary services and telemetered ramp rates for Day 0.	AEMO	Registered Participants	Day 0	Daily		3.13.4 (p)



Day	Time of day (AEST)	Event	Provided by	Provided to	Period covered	Frequency	Comments	NER requirement
Day +1	At start of trading day	Publish dispatched generation, dispatched wholesale demand response, dispatched network service or dispatched load for each scheduled resource, and any application of a semi-dispatch cap to each semi-scheduled generating unit, for Day 0.	AEMO	Registed Participants	Day 0	Daily	5-minute resolution.	3.13.4 (q)
Day 0	After start of trading interval	Publish: actual generation for each scheduled generating unit, semi-scheduled generating unit, scheduled bidirectional unit, non-scheduled generating unit, non-scheduled generating system, non-scheduled bidirectional unit or non-scheduled integrated resource system; actual network service for each scheduled network service; and actual load for each scheduled bidirectional unit and scheduled load.	AEMO	Registered Participants	Current trading interval	Every 5 minutes	Actual values are measured at the start of each trading interval. Only data available to AEMO is published.	3.13.4(r)-(t)
Day +1		Publish operational irregularities.	AEMO	Registered Participants	Day 0	Daily		3.13.4 (w)
Day -1	After 12:30 and no later than 16:00	Provide unconstrained intermittent generation forecasts for semi-scheduled generating units.	AEMO	Semi- Scheduled Generators	Current 30- minute period until end of Day 0	Every 3 hours as a minimum Rules requirement. Current system target is half hourly.	Half-hourly resolution. Provided in confidence to Semi-Scheduled Generators.	3.13.4 (y)
Ongoing		Publish the historical data used in determining the 'causer pays' factors for each <i>Market Participant</i> at least 8 business days prior to the application of these factors.	AEMO	Registered Participants	'Causer pays' sample period	Every 4 weeks	4 weekly resolution.	3.15.6A(n)



Day	Time of day (AEST)	Event	Provided by	Provided to	Period covered	Frequency	Comments	NER requirement
Ongoing		Publish the 'causer pays' factors at least 10 <i>business days</i> prior to the application of those factors.	AEMO	Registered Participants	'Causer pays' sample period	Every 4 weeks	4 weekly resolution.	3.15.6A(na)

2.5. Settlements

Day	Time of day (AEST)	Event	Provided by	Provided to	Period covered	Frequency	Comments	NER requirement
End of billing period +5 business days	By 18:00	Publish the carbon dioxide equivalent intensity index for the days of the billing period.	AEMO	Registered Participants	Billing period	Weekly	Daily resolution.	3.13.14(f)
End of billing period +5 business days	Approxima tely 12:00 Sydney time, no later than 18:00	Issue preliminary statements.	AEMO	Market Participants	Billing period containing Day 0	Weekly		3.15.14(a)
End of billing period +18 business days	Approxima tely 12:00 Sydney time, no later than 18:00	Issue final statements.	AEMO	Market Participants	Billing period containing Day 0	Weekly		3.15.15(a)
End of billing period +20 business days	By 10:30 Sydney time.	Market Participants pay to AEMO in cleared funds the amount stated to be payable in the relevant final statement.	Market Participants	EFT Provider	Billing period containing Day 0	Weekly	Times must align with EFT Provider and RTGS System deadlines.	3.15.16
End of billing period +20 business days	By 14:00 Sydney time.	AEMO pays to Market Participants in cleared funds the amount stated to be payable in the relevant final statement.	AEMO	EFT Provider	Billing period containing Day 0	Weekly	Subject to all payments to AEMO being cleared by 10:30 Sydney time and <i>Market Participants</i> ' Exigo transactions entered and matched by 13:00 Sydney time	3.15.17



Day	Time of day (AEST)	Event	Provided by	Provided to	Period covered	Frequency	Comments	NER requirement
End of billing period +20 weeks	Approxima tely 12:00 Sydney time, no later than 18:00	Issue routine revised statements.	AEMO	Market Participants	Billing period containing Day 0	Weekly	Based on amended metering data, trading amounts, Participant fees or other amounts payable or receivable by the Market Participant.	3.15.19(b)
End of billing period +30 weeks	Approxima tely 12:00 Sydney time, no later than 18:00	Issue routine revised statements.	AEMO	Market Participants	Billing period containing Day 0	Weekly	Based on amended metering data, trading amounts, Participant fees or other amounts payable or receivable by the Market Participant.	3.15.19(b)
End of billing period +20 business days	By 16:00 Sydney time.	AEMO pays to Market Participants in cleared funds to the value of the maximum total payment.	AEMO	EFT Provider	Billing period containing Day 0	Weekly, if required.	Not required if all payments to AEMO are cleared by 10:30. <i>Maximum total payment</i> includes late payments and <i>credit support</i> drawings received prior to 14:00.	3.15.22
After end of financial year		AEMO determines payment adjustments to <i>Market Participants</i> .	AEMO	Market Participants	Financial year containing Day 0	Yearly, if required.	Only required if AEMO receives late payment for a payment default that occurred in the <i>financial year</i> .	3.15.23 to 3.15.25

2.6. **EAAP**

Day	Time of day (AEST)	Event	Provided by	Provided to	Period covered	Frequency	Comments	NER requirement
Within 3 weeks from the time AEMO issues an AEMO Communication for annual EAAP reporting	By 16:00	Submission of <i>GELF</i> parameters for annual <i>EAAP</i> reporting.	Scheduled Generators or Scheduled Integrated Resource Providers	AEMO	Information to cover the 24 months	Annually	Information must be provided consistent with the <i>EAAP guidelines</i> .	3.7C(b)(6)(D), (e), (f)



Day	Time of day (AEST)	Event	Provided by	Provided to	Period covered	Frequency	Comments	NER requirement
By 31 August each year		Publish <i>EAAP</i> .	AEMO	Registered Participants	Information to cover the next 24 months	Annually		3.7C(d)
Within 3 weeks from the time AEMO issues an AEMO Communication that a GELF update is required for additional EAAP reporting, as determined by AEMO.	By 16:00	Submission of <i>GELF</i> parameters for additional <i>EAAP</i> reporting.	Scheduled Generators or Scheduled Integrated Resource Providers	AEMO	Information to cover the next 24 months.	Determined by AEMO in considering the relevant factors for additional EAAP reporting under the RSIG.	Information provision must be consistent with the EAAP guidelines.	3.7C(h)(2)
As soon as practicable after receipt of the <i>GELF</i> parameters for additional <i>EAAP</i> reporting, making AEMO aware of new information that may materially alter the most recently published <i>EAAP</i> .		Publish <i>EAAP</i>	AEMO	Registered Participants	Information to cover the next 24 months.	As soon as practicable after receipt of the <i>GELF</i> parameters for additional <i>EAAP</i> reporting, making AEMO aware of new information that may materially alter the most recently published <i>EAAP</i> .		3.7C(d)(2)



2.7. CIR

Day	Time of day (AEST)	Event	Provided by	Provided to	Period covered	Frequency	Comments	NER requirement
Each day	Every 4 hours commencing midnight	Publish Network Outage Schedule.	AEMO	Registered Participants	Up to two years in advance	Every 4 hours		3.7A(b)(1), (e), (f) 3.13.4 (z)
By the fifth business day of each month	By 16:00	Provide planned network outage information.	TNSPs	AEMO	Up to 13 months in advance	Monthly as a minimum as well as material changes	The 13 month data is published as a part of the Network Outage Schedule	3.7A(b)(1), (e), (f) 3.13.4 (z)
By the fifteenth business day of each month	By 16:00	Publish planned network outage information.	AEMO	Registered Participants	Up to 13 months in advance	Monthly as a minimum	The 13 month data is published as a part of the Network Outage Schedule	3.7A(b)(1), (e), (f) 3.13.4 (z) 3.7A(b)(1), (f)



Version release history

Version	Effective Date	Summary of Changes
1.9	3 June 2024	Minor updates to reflect the National Electricity Amendment (Integrating energy storage systems into the NEM) Rule 2021 No.13 and National Electricity Amendment (Implementing integrated energy storage systems) Rule 2023 No.2. Updated template.
1.8	24 April 2023	Updated to reflect changes to EAAP timing as part of the Reliability Forecasting Guideline and Methodology Consultation
1.7	1 November 2021	Updated to reflect the wholesale demand response mechanism rule change and implementation of the five-minute settlement rule change. Removed NMAS reporting in section 2.4. Corrected information in section 2.7 PASA to reflect the current practice and the AEMO's obligation. Added comments to section 2.7 CIR
1.6	30 Jun 2021	Increased frequency of ST PASA publication. Deferred 5-Minute Settlement start date. Corrected Rules reference for forecast market ancillary services requirements.
1.5	7 Sep 2020	Changes in relation to the Improving transparency and extending duration of MT PASA rule change, and incorporating changes from consultation.
1.4	16 Aug 2019	Added 5MPD in accordance with National Electricity Amendment (Five Minute Settlement) Rule 2017 No. 15. Removed references to interim nature of CIR. Corrected minor errors. Added GELF to glossary.
1.3	28 Oct 2016	Accepted all changes made to V1.2.
1.2	9 Sep 2016	Accepted all changes made to V1.1.
1.1	2 Jun 2016	Updated in accordance with Schedule 2 of the National Electricity Amendment (Energy Adequacy Assessment Projection timeframes) Rule 2016 No. 3.
1.0	13 Dec 1998	Original version.

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