

RERT Panel Agreement

Australian Energy Market Operator Limited

and

[name]

Australian Energy Market Operator Limited

Level 22, 530 Collins Street

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Details

|  |  |
| --- | --- |
| **Parties** |  |
| ***AEMO*** | Name | **AUSTRALIAN ENERGY MARKET OPERATOR LIMITED**  |
|  | ABN | 94 072 010 327 |
|  | Address | Level 22, 530 Collins Street, Melbourne, Victoria |
|  | Telephone | (03) 9609 8000  |
|  |  |  |
|  | Email | rert@aemo.com.au  |
|  | Attention | [insert]  |
| ***Reserve Provider*** | Name |  |
|  | ABN |  |
|  | Address |  |
|  | Telephone |  |
|  |  |  |
|  | Email |  |
|  | Attention |  |
| **Recitals** | **A** *AEMO* is responsible for managing the *National Electricity Market* in accordance with the *Rules*. |
|  | **B** *AEMO* has selected the *Reserve Provider* to be a member of a *Panel* from whom AEMO may seek tenders for the provision of *short notice reserve* from time to time.  |
|  | **C** This Agreement sets out the terms and conditions for a being a panel member and provides a framework for the parties to enter into *reserve contracts* for the provision of *reserve* from time to time. |
| **Governing law** | New South Wales |
| **Date of Agreement** | See signing page |

Operative Provisions

# Interpretation and Incorporation of Schedules

## Definitions

Unless a contrary intention appears, these meanings apply in this document:

“*authority*” means any Commonwealth, State, Territory or local government or regulatory department, body, instrumentality, minister, agency or other authority, but does not include *AEMO*.

“*available*” means, in respect of each *reserve* at any time, that the *reserve* is, or under this Agreement is taken to be, capable of being provided by the *Reserve Provider* at all of the *contracted levels of performance*.

“*billing period*” means a period of 7 days commencing with the *trading interval* ending at 00:30 hours (*Eastern Standard Time*) on Sunday, provided that:

the first *billing period* commences when this Agreement commences; and

the last *billing period* ends when this Agreement ends.

*“charges”* means the *usage charge* or *pre-activation charge*, as applicable.

“*claims*” means all claims, losses, liabilities, costs or expenses, whether arising in contract, tort (including negligence), equity or otherwise.

*“commencement date”* means the date this Agreement comes into effect under **clause 4.1**.

“*communication*” means any notice, demand, approval, consent, request or other communication required or given by a party to another party under this Agreement or a *reserve contract*.

 “*Confirmation*” for a particular *reserve contract*, means the confirmation notice for the provision of a particular *reserve* for an agreed period given by *AEMO* to the *Reserve Provider* substantially in the form contained in**Attachment 1** or such other form as *AEMO* requires.

“*contracted levels of performance*” are specified in **Item 6** of each **Schedule**.

“*Corporations Act*” means the Corporations Act 2001 (Cth).

“*datastream*” means a stream of *metering data* associated with a *connection point* as represented by a *NMI*. A *NMI* can have multiple *datastreams* (e.g. from one or more meters, or from one or more channels or registers that comprise a single meter).

“*datastream suffix*” means the unique suffix which identifies a *datastream* and which is associated with the *NMI* to which it belongs.

“*dispose*” means assign, transfer or otherwise dispose of any legal or equitable estate, whether by sale, lease, declaration or creation of trust or otherwise.

“*EST*” means *Eastern Standard Time.*

“*event of force majeure*”means in respect of a party (in this definition called the *“affected party”*) an act of God, lightning strike, earthquake, flood, drought, storm, tempest, mudslide, explosion, fire or any other natural disaster, an act of war, act of public enemies or terrorists, riot, civil commotion, malicious damage, sabotage, blockade or revolution, an act or omission of any *authority*, or a *labour dispute*, that:

is beyond the reasonable control of the *affected party*;

is not the result of a breach of this Agreement, a *reserve contract, legislation* or the *Rules* by the *affected party,* or of an intentional or negligent act or omission of the *affected party* (or of any other person over which the *affected party* should have exercised control); and

results in the *affected party’s* being unable to observe or perform on time and as required any obligation (other than an obligation to pay money) under this Agreement or a *reserve contract*.

For the avoidance of doubt, the inability of a *generating unit* comprising the *reserve equipment* to *supply* electricity to the *regional reference node* in the *region* where the *reserve* is or may be required due to a *constraint* on a *network* is not an *event of force majeure*.

“*first stage dispute resolution processes*” means the procedures set out in Rule 8.2.4.

*“GST*” has the meaning given to it in the *A New Tax System (Goods and Services Tax) Act 1999* (Cth).

“*insolvency event*” means, in relation to a party, the happening of any of these events:

it is (or states that it is) insolvent or under administration; or

it has a controller (as defined in the *Corporations Act*) appointed, is in liquidation, in provisional liquidation, under administration or wound up or has had a receiver (or receiver and manager) appointed to any part of its property;

it is subject to any arrangement, assignment, moratorium or composition, protected from creditors under any statute or dissolved (in each case, other than to carry out a reconstruction or amalgamation while solvent on terms approved by the other party);

an application or order has been made (and, in the case of an application, it is not stayed, withdrawn or dismissed within 30 days), resolution passed, proposal put forward, or any other action taken, in each case in connection with that party, which is preparatory to or could result in any of the events detailed in **paragraphs (a), (b)** or **(c)**;

it is otherwise unable to pay its debts when they fall due; or

something having a substantially similar effect to the events detailed in **paragraphs (a)** to **(e)** happens in connection with that party under the law of any jurisdiction.

“*labour dispute*” means a strike, lockout, ban, “go‑slow” activity, stoppage, restraint of labour or other similar act that is not directed primarily at a party to this Agreement.

“*legislation*” means Acts of Parliament, regulations, statutory instruments and codes, and includes any licence, order, official policy, directive, request, requirement or guideline of an *authority* whether or not it has the force of law.

*“minimum technical requirements”* are specified in **item 6.1** of each **Schedule**.

*“Panel”* means the panelto provide *short notice reserve* (as the case may be) to which the *Reserve Provider* has been appointed by *AEMO.*

“*pre-activation charge*” is specified in **Item 9** of a **Schedule** providing for *unscheduled reserve*.

“*representative*”, in relation to a party, means any officer, employee, agent, adviser, trustee, permitted assignee, liquidator, administrator, or third party contractor of that party or of a related body corporate(as that term is defined in the *Corporations Act*) of that party.

“*Request for Tender*” means a request by *AEMO* to the *Reserve Provider* for *reserve* substantially in the form contained in **Attachment 2** or such other form as *AEMO* requires.

“*reserve*” is described in **item 3** of each **Schedule** as amended in accordance with this Agreement or a *reserve contract*.

*“reserve contract”* means, in respect of a particular *reserve*, the contract governing the provision of that *reserve* created in accordance with **clause 3.2**.

“*reserve equipment*” means any equipment specified in **Item 4** of each **Schedule** (other than those Schedules providing for *reserve* through the reduction of *load*) and, in respect of *reserve* through the reduction of *load,* any equipment used to provide the *reserve* including any *standby generating unit*.

*“Reserve Provider”* is specified in the **Details**.

“*Rules*” means the National Electricity Rules.

*“short notice reserve”* means the provision of *reserve* in response to a ‘short-notice situation’, as that term is described in the *RERT guidelines* and the provision of *reserve* in response to situations where AEMO has less than three hours notice of a projected shortfall in reserves.

“*second stage dispute resolution processes*” means the procedures set out in Rule 8.2.5.

“*term*” means the period during which this Agreement is in effect.

*“usage charges”* are specified in **item 9** of each **Schedule**.

*“Web Portal”* means the Reserve Trading (RERT) web portal accessable through *AEMO* market systems established by *AEMO* to allow reserve providers to confirm *available reserve* and provide *NMI* information and other functions.

All terms in italics not defined in this Agreement have the meaning given to that term in the *Rules*.

## Interpretation

Unless a contrary intention appears in this document, a reference to:

* + 1. this Agreement includes any schedules and annexures;
		2. a document (including this Agreement) includes the document as novated, varied, or replaced, and despite any change in the identity of the parties;
		3. a clause, paragraph, schedule, or annexure is a reference to a clause, paragraph, schedule, or annexure to this Agreement;
		4. a clause is a reference to all its subclauses;
		5. an “Item” is a reference to a provision in a **Schedule**;
		6. legislation includes subordinate legislation and other instruments under them, and consolidations, amendments, re-enactments or replacements of any of them;
		7. the word “**Rule**” followed by a number refers to provisions in the *Rules*;
		8. the singular includes the plural and vice versa and a gender includes all genders;
		9. the word “**person**” includes a firm, a body corporate, a partnership, joint venture, trust, an unincorporated association and any *authority*  and any successor entity to those persons;
		10. the word “**includes**” or “**including**” or “**such as**” are not words of limitation, and when introducing an example, do not limit the meaning of the words to which the example relates to examples of a similar kind;
		11. a person includes a reference to the person’s executors, administrators, successors, substitutes (including persons taking by novation) and assigns;
		12. a party includes, where the context requires it, that person’s directors, officers, employees, contractors, agents and any other persons authorised by that party;
		13. an agreement, representation or warranty:

(i) in favour of two or more persons is for the benefit of them jointly and each of them severally;

(ii) by two or more persons binds them jointly and each of them severally;

* + 1. a thing (including an amount) is a reference to the whole and each part of it and a reference to a group of persons is a reference to all of them collectively, to any two or more of them collectively, and to each of them individually;
		2. writing includes any mode of representing or reproducing words in tangible and permanently visible form;
		3. a month is a reference to a calendar month;
		4. a day is a reference to a period of time commencing at midnight and ending the following midnight; and
		5. a period of time and the period dates from a given day or the day of an act or event, it is to be calculated exclusive of that day and, if a period of time is specified as commencing on a given day or the day of an act or event, it is to be calculated inclusive of that day.

## Construction

* + 1. Headings are inserted for convenience and do not affect the interpretation of this Agreement.
		2. If a word or phrase is defined in this Agreement, other parts of speech and grammatical forms of that word or phrase have corresponding meanings.
		3. No rule of construction will apply to a clause to the disadvantage of a party merely because that party put forward the clause or would otherwise benefit from it.

## Symbols

A symbol in column 1 of the table below has the meaning set out opposite that symbol in column 2:

| **1** | **2** |
| --- | --- |
| **SYMBOL** | **MEANING** |
| MW | Megawatt |
| MWh | Megawatt hour |
| $ | Australian dollars |
|  |

## Schedules

If a **Schedule** contains any provisions that impose additional obligations to those set out in the **Operative Provisions**, the provisions in the **Schedule** apply in respect of the *reserve* the subject of that **Schedule**, as if the provision was an **Operative Provision**.

## Priority

To the extent of any inconsistency:

### a **Schedule** prevails over the **Operative Provisions**; and

### for a *reserve contract,* the *Confirmation*prevails over this Agreement.

## *Rules* prevail

If, and to the extent of, any inconsistency between an obligation of *AEMO* under this Agreement and an obligation of *AEMO* under the *Rules*, the obligation of *AEMO* under the *Rules* will prevail over the obligation of *AEMO* under this Agreement.

# Not used

# Panel membership

## Appointment and Acceptance

### *AEMO* appoints the *Reserve Provider* as a member of the *Panel* for provision of *short notice reserve* in accordance with this Agreement and the *Reserve Provider* accepts that appointment.

## Creation of *reserve contracts*

### From time to time, *AEMO* may issue a *Request for Tender* to the *Reserve Provider* to provide *short notice reserve* for specified periods.

### Subject to clause **5.5** or **Item 2.2**, on receipt of a *Request for Tender,* the *Reserve Provider* must use reasonable endeavours to make an offer to provide *reserve* in response to a *Request for Tender.*

### Any offer under **clause 3.2(b)** must be substantially in the form contained in **Attachment 3** to the relevant **Schedule**, or such other form as *AEMO* requires.

### The parties agree that if *AEMO* accepts an offer by the *Reserve Provider* to provide *reserve* in response to a *Request for Tender* by sending the *Reserve Provider* a *Confirmation*, a separate *reserve contract* is formed for that *reserve* comprising **clauses 1** to **16** of this Agreement, the relevant **Schedule** and the terms of the *Confirmation*.

## No Obligation to Procure from Panel Members

The *Reserve Provider* acknowledges that:

### *AEMO* is not required by anything in this Agreement, any legislation, or requirement of any *government authority* to procure any *reserve* from the *Reserve Provider*, or any other member of the *Panel*; and

### this Agreement is not exclusive and *AEMO* may procure *reserve* from persons who are not members of the *Panel*.

# Term

## Term of this Agreement

### This Agreement comes into effect at the time when the last party to execute this Agreement does so.

### Subject to earlier termination in accordance with this Agreement, this Agreement continues until midnight at the end of the day that is 12 months after the *commencement date.*

## Period of Reserve Contracts

### A *reserve contract* comes into effect on the date specified in the *Confirmation*.

### A *reserve contract* continues until the date specified in the *Confirmation*, unless it is terminated earlier in accordance with this Agreement.

# Provision of Reserve

## Obligation to comply with contracted levels of performance

The *Reserve Provider* must ensure that the *reserve* is *available* and provided at the relevant *contracted levels of performance* and with due care and skill.

## Reserve Provider Undertakings

### Except in accordance with this Agreement, the *Reserve Provider* undertakes that the *reserve* to be provided to *AEMO* under this Agreement will not be:

### offered to the *market* through any means;

### provided or available to be provided pursuant to any other arrangement or agreement, including any demand side management arrangement or agreement,

### during the periodfor which *reserve* is contracted under a *reserve contract*.

## Requests for Reserve

### During the period for which *reserve* is contracted under a *reserve contract*, *AEMO* may (but is not obliged to) request the *reserve* be provided by the *Reserve Provider* in accordance with **item 8** of the relevant **Schedule**.

### The *Reserve Provider* must comply with a request under **paragraph (a)**.

## Unavailability of Reserve

If, at any time (whether during the currency of a *reserve contract* or otherwise), the *Reserve Provider* considers that *reserve* *equipment* is, or will become, incapable of providing *reserve* in accordance with the *contracted levels of performance*, it must notify *AEMO* immediately specifying:

### which *reserve* the notice applies to;

### when the *reserve* *equipment* became, or will become, incapable of providing the *reserve*;

### how long the *Reserve Provider* expects the incapability to continue; and

### the cause of the incapability.

## Spot Market Transactions

Neither the *Reserve Provider*, nor any other party, will be entitled to *spot market* revenue associated with the provision of *reserve*. If requested by *AEMO*, the *Reserve Provider* will participate in the *spot market* as *AEMO’s* agent and account to *AEMO* for any *spot market* revenue associated with the *reserve*, or *AEMO* may set off that *spot market* revenue against an amount due to the *Reserve Provider* under a *reserve contract*.

## Third party reserve

### The *Reserve Provider* must obtain written confirmation from each third party and end user contracted by the *Reserve Provider* to provide *load* r*eduction* or *generation increase* for the purpose of the *Reserve Provider* providing *reserve* confirming that the *load* *reduction* or *generation* *increase* is not and will not be:

#### offered to the *market* through any other means;

#### provided or available to be provided pursuant to any other arrangement or agreement, including any demand side management arrangement or agreement,

### during the period for which *reserve* is contracted under a *reserve contract*.

### In respect of *reserve* through the reduction of *load*, every 3 months (or earlier on AEMO’s request) from the *commencement date* the *Reserve Provider* must provide to *AEMO* an updated list of *NMI*’s and *datastreams* to be used to provide *reserve* in accordance with this Agreement.

# Measurement and verification

## Measurement

### Measurement of each *reserve* provided under a *reserve contract* must be made in accordance with the **Schedule** relevant to each *reserve*, and as provided by *AEMO’s* records and the *Reserve Provider’s* *metering*, measurement, supervisory and electronic data processing systems.

## Verification

*AEMO* may verify that *reserve* is being provided in accordance with a *reserve contract* using the process contemplated by a relevant **Schedule**.

# Records, audits and inspections

## Type of Records

The *Reserve Provider* must compile and maintain records concerning this Agreement, including the provision of *reserve* under a *reserve contract*, the operation and maintenance of *reserve* *equipment,* any procedures used in the performance of this Agreement or a *reserve contract* and all notices given or received by telephone in relation to this Agreement or a *reserve contract* and*,* in respect of *reserve* through the reduction of *load*, records of electricity supply and demand side management agreements or arrangements or any network support agreements or arrangements affecting the *reserve* including the time, duration, quantity and amount of demand response or other services supplied or activated under any such agreement or arrangement.

## Form and Retention

### The records referred to in **clause 7.1** may be maintained in writing or electronically.

### The *Reserve Provider* must maintain a record referred to in **clause 7.1** for at least 7 years from the date it was created.

## Right to Inspect Records

### *AEMO* may request a copy of any of the records maintained under **clause 7.1** or any other information in connection with *reserve* at any time.

### The *Reserve Provider* must comply with a request from *AEMO* under **paragraph (a)** within 5 *business days* of receipt.

## Audits by AEMO

* + 1. *AEMO* may audit any of the records maintained under **clause 7.1** by givingthe *Reserve Provider* at least 5 *business days'* notice. A notice under this **paragraph (a)** must include the following information:

#### the nature of the audit;

#### the *reserve* concerned;

#### the name of any *representative* appointed by *AEMO* to conduct the audit; and

#### the date on which the audit will commence.

### Unless the *Reserve Provider* agrees otherwise, an audit under this **clause 7.4** may only occur during normal business hours on a *business day*.

### On request from AEMO, the *Reserve Provider* must procure the disclosure of records and information from any party to an electricity supply and demand side management agreements or arrangements or any network support agreements or arrangements affecting the *reserve* including the time, duration, quantity and amount of demand response or other services supplied or activated under any such agreement or arrangement and the *Reserve Provider* consents to the disclosure to *AEMO* of any such records and information.

## Conduct of Audit

Audits will occur at the site at which the relevant records are maintained by the *Reserve Provider* and the *Reserve Provider* must provide the *representatives* conducting the audit with all assistance those *representatives* may require to conduct it, including access to all relevant records (including computer records or systems) and any interpretation or explanation required.

## Inspections

* + 1. At a date and time convenient to both parties, *AEMO* may inspect any of the *reserve* *equipment* to determine whether the *Reserve Provider* is complying with this Agreement or a *reserve contract*.
		2. Where any *reserve equipment* is located on a third party or end user’s property, the *Reserve* Provider will use all commercially reasonable endeavours to procure consent for AEMO to inspect such equipment at a date and time convenient to both parties and the end user, such that *AEMO* may inspect any of the *reserve* *equipment* to determine whether the *Reserve Provider* is complying with this Agreement or a *reserve contract*.
		3. At least 5 *business days* prior to the date on which *AEMO* wishes to make an inspection, *AEMO* must deliver a notice to the *Reserve Provider* detailing the following information:

#### the *reserve* *equipment* to be inspected;

#### the *representatives* who will be conducting the inspection on behalf of *AEMO*; and

#### the date and time when *AEMO* proposes to commence the inspection and the expected date and time when the inspection will conclude.

* + 1. The *Reserve Provider* must not unreasonably refuse access and must procure that all necessary third party consents to the access required by *AEMO* to conduct the inspection are secured in time for the inspection to commence as agreed between the parties.
		2. If *AEMO* conducts an inspection under this **clause 7.6**, the *Reserve Provider* must designate *representatives* to accompany *AEMO’s* *representatives* and answer any questions and assist with the conduct of the inspection.

## Conduct of Inspection

### *AEMO* must not carry out any inspection of *reserve* *equipment* under **clause 7.6** within 6 months of a previous inspection under this Agreement of the same *reserve* *equipment*.

### Unless otherwise agreed by the *Reserve Provider*, an inspection under **clause 7.6** may take as long as reasonably necessary, provided it is no longer than 24 hours. Any agreement to extend the period of the inspection must not be unreasonably withheld, considering the extent of the inspection proposed.

### Whilst carrying out an inspection in accordance with **clause 7.6**, *AEMO* must, and must procure that its *representatives*:

#### not cause any loss or damage to the *Reserve Provider’s* assets;

#### not interfere with the operation of the *Reserve Provider's* business (provided that the inspection itself does not constitute interference);

#### observe the *Reserve Provider’s* requirements relating to occupational health and safety and industrial relations matters that apply to all invitees of the *Reserve Provider*; and

#### not ask any question or give any direction, instruction, or advice to any *representative* of the *Reserve Provider* other than the *representative* designated by the *Reserve Provider* for this purpose.

# Maintenance & Repairs

## Maintenance of Reserve Equipment

### In respect of *reserve equipment* owned, operated or controlled by the *Reserve Provider*, the *Reserve Provider* must maintain the *reserve equipment* in accordance with *good electricity industry practice*.

### In respect of *reserve equipment* not owned, operated or controlled by the *Reserve Provider*, the *Reserve Provider* must:

#### ensure that each each third party and end user contracted by the *Reserve Provider* for the purposes of providing *reserve* maintains the reserve equipment applicable to that third party and end user in accordance with *good electricity industry practice*; and

#### notify *AEMO* promptly after becoming aware of a change or modification to any *reserve equipment* in a way that affects or could reasonably be expected to affect the ability of that *reserve equipment* to meet the *contracted levels of performance*

## Notice of Modifications to Reserve Equipment

### In respect of reserve equipment owned, operated or controlled by the Reserve Provider, the Reserve *Provider* must notify *AEMO* promptly after changing or modifying any *reserve equipment* in a way that affects or could reasonably be expected to affect the ability of that *reserve equipment* to meet the *contracted levels of performance.*

### In respect of reserve equipment not owned, operated or controlled by the Reserve Provider, the Reserve Provider must ensure that each third party and end user contracted by the *Reserve Provider* for the purposes of providing *reserve* notifies the *Reserve Provider* as soon as the *reserve equipment* applicable to that third party and end user is, or will become, incapable of providing *reserve* in accordance with the *contracted levels of performance.*

## Ad Hoc Maintenance & Repairs

(a) If any maintenance or repair to the *reserve equipment* is required after entering into a *reserve contract* that could affect the provision of the *reserve* in accordance with that *reserve contract*, the *Reserve Provider* must notify *AEMO* of the need for that maintenance or repair as soon as possible before any maintenance or repair occurs. The notice must include the following information:

(A) the reason for the maintenance or repair;

(B) the proposed date and time of the maintenance or repair;

(C) the expected impact of the maintenance or repair on the *reserve* during the maintenance or repair period; and

(D) the *Reserve Provider’s* assessment of the urgency of the maintenance or repair.

(b) The *Reserve Provider* must not commence the proposed maintenance or repair unless *AEMO* agrees that the maintenance or repair take place as proposed.

(c) Despite agreeing to the maintenance or repair, *AEMO* may at any time request the *Reserve Provider* to defer it if *AEMO* considers it is likely that the *reserve* will needto be *activated* at or about the time of the proposed maintenance or repair. If requested by *AEMO*, the *Reserve Provider* must make a good faith assessment of the risks associated with the deferral of the relevant maintenance or repair in relation to the ability of the *reserve* to meet the *contracted levels of performance* and notify *AEMO* of that assessment as soon as possible.

(d) The *Reserve Provider* must comply with a request by *AEMO* to defer the maintenance or repair, unless, in the *Reserve Provider’s* reasonable opinion, damage to the *reserve equipment* is imminent, or the deferral of the maintenance or repair significantly increases the risk of imminent danger to the safety of personnel.

(e) The *Reserve Provider* must notify *AEMO* of any deviation from the advice provided under **paragraph (a)** as soon as possible.

(f) *AEMO* will not be liable to reimburse any costs of the *Reserve Provider* incurred in respect of deferral of maintenance or repair if *AEMO* notifies the *Reserve Provider* of the intended deferral at least 24 hours before the proposed commencement of the maintenance or repair, or within two hours after *AEMO’s* receipt of the *Reserve Provider’s* notice of the maintenance or repair, whichever is the later.

If *AEMO* gives a notice to defer maintenance or repair at a time that is:

(a) less than 24 hours prior to the planned commencement of the maintenance or repair; or

(b) more than two hours after *AEMO’s* receipt of the *Reserve Provider’s* notice of the maintenance or repair,

whichever is the later:

(c) the *Reserve Provider* must use reasonable endeavours to defer the maintenance*;* and

(d) *AEMO* must reimburse the *Reserve Provider* for any reasonable expenses the *Reserve Provider* incurs that cannot be avoided and are directly attributable to the deferral, upon the *Reserve Provider’s* provision of evidence of incurring of the expense.

# Payments

## Calculation of Payments

### The *charges* owed by *AEMO* for *reserve* provided under each *reserve contract* are to be determined in accordance with **item 9** of the relevant **Schedule**.

## Final Statements

### Subject to clause **Error! Reference source not found.**, not later than 60 *business days* after the end of each *billing period*, *AEMO* must give the *Reserve Provider* a final statement stating the net amount payable by one party to the other in respect of that *billing period* (*“final statement*”).

## Disputes over Statements

### Disputes in relation to a *final statement* must be raised within 6 months of the date of the *billing period* to which the statement relates. If a party does not raise a dispute within that period, the party will be taken to have agreed to the way in which that matter is dealt with in the *final statement*.

## Payment

### If a *final statement* indicates that a party must pay the other party a net amount, that party must pay the net amount specified in the *final statement* to the other party (whether or not there is a dispute in relation to the amount payable) on the later of:

### the 20th *business day* after the end of the *billing period*; and

### the 2nd *business day* after *AEMO* gives the *final statement*.

## Adjustment

### Where the parties agree that the *charges* or any other amounts specified in a *final statement* are incorrect, or it is determined in accordance with **clause 14** that they were incorrect or not payable, or the quantity of *reserve* is amended in accordance with this Agreement or a *reserve contract, AEMO* must issue a replacement statement for the *billing period* stating the correct *charges* or any other amounts payable.

### If a payment has already been made, the party advantaged must pay the other party the amount required to put the other party in the position it would have been in at the time payment was due under **clause 9.5** plus interest on the difference between the amount paid to the party advantaged and the amount that should have been paid. The interest accrues daily at the *bank bill rate* on the relevant day for each day from the date on which payment was made under **clause 9.5** until payment is made under this **paragraph (b)**.

### Payment under **paragraph (b)** must be made on the same day as the next payment is made under **clause 9.5** or set off against an amount due to the party advantaged by the other party**,** or if no subsequent payments are to occur under **clause 9.5**,within 15 *business days* after the replacement statement is given under **paragraph (a)**.

## Set-Off

### (a) Without limiting *AEMO's* rights under this Agreement or any *reserve contract* or at law, *AEMO* may deduct from any money due to the *Reserve Provider* under this Agreement or a *reserve contract* any sum that is payable by the *Reserve Provider* to *AEMO* whether or not:

#### *AEMO's* right to payment arises by way of damages, debt, restitution or otherwise; or

#### the factual basis giving rise to *AEMO's* right to payment arises out of this Agreement, any other agreement, or is independent of any agreement.

### (b) If the money payable to the *Reserve Provider* under this Agreement or any *reserve contract* is insufficient to discharge the liability of the *Reserve Provider* to pay *AEMO* the amount under **paragraph (a)**, the excess will be a debt due and payable and *AEMO* may have recourse to any payments due to the *Reserve Provider* other than under this Agreement or a *reserve contract*. Nothing in **clause 9.7** affects *AEMO’s* rights to recover from the *Reserve Provider* such money, or any balance that remains owing.

## GST

### The *charges* and any other amounts payable to or by *AEMO* under this Agreement or a *reserve contract* exclude *GST*.

### Where a party is required under this Agreement or a *reserve contract* to reimburse or otherwise pay an amount to another party (“*reimbursed party*”) on account of a cost or expense incurred by that *reimbursed party*, the amount of the reimbursement will be reduced by the amount of any *input tax credit* to which the *reimbursed party* is entitled for an acquisition to which that cost or expense relates.

### If either party makes a *taxable supply* under thisAgreement or a *reserve contract*, the party receiving the *taxable supply* must also pay an additional amount equal to the consideration payable for the *supply* multiplied by the applicable *GST* rate.

### AEMO must include the additional amounts contemplated under **paragraph (c)** in statements issued under this Agreement and each party must assist the other party to claim *input tax credits* for *GST* where relevant.

### If the additional amount paid or payable to a party in respect of a *taxable supply* under **paragraph (c)** differs from the actual amount of *GST* payable, adjustments must be made in accordance with the adjustment procedures under **clause 9.8**.

(f) In **clause 9.7,** “*input tax credit*”, “*supply*” and “*taxable supply*” each have the meaning given to those terms in the A New Tax System (Goods and Services Tax) Act 1999 (Cth).

(g) AEMO will issue tax invoices and adjustment notes in respect of taxable supplies (including supplies taken to be taxable supplies under Subdivision 153-B of the GST Act) made by the Reserve Provider to AEMO under this Agreement, and the Reserve Provider will not issue tax invoices in respect of those supplies.

(h) The Reserve Provider acknowledges that it is registered for GST purposes on the date of this Agreement and that it will notify AEMO if it ceases to be so registered.

(i) AEMO acknowledges that it is registered for GST purposes on the date of this Agreement and that it will notify the Reserve Provider if it ceases to:

(i) be so registered; or

(ii) satisfy any of the requirements for issuing recipient created tax invoices listed in a relevant determination made under subsection 29-70(3) of the GST Act.

# Extent of liability

## AEMO Liability cap

### Subject to **paragraph (b)** and **clause 10.4,** the total amount recoverable from *AEMO* in respect of any and all *claims* arising out of any one or more events during any 12-month period with respect to, arising from, or in connection with, this Agreement, all *reserve contracts* and the provision of *reserve* under any of them is limited to a maximum aggregate amount of $5,000,000.

### Regardless of the nature of any *claim*, *AEMO* is not liable in any circumstances for any:

#### damages or losses that are not direct and do not flow naturally from a breach of this Agreement or a *reserve contract*, even if they may reasonably be supposed to have been in the contemplation of both parties as a probable result of the breach at the time they entered into this Agreement or a *reserve contract*;

#### loss of profit, business opportunity, production, revenue, contract or goodwill (whether direct or indirect); or

#### damages or loss to the extent that a claim results from the *Reserve Provider’s* failure to act in accordance with this Agreement or a *reserve contract*, *legislation* or *good electricity industry practice*.

## Reserve Provider Liability Cap

### Subject to **paragraph (b),** the total amount recoverable from the *Reserve Provider* in respect of any and all *claims* arising out of any one or more events during any 12-month period with respect to, arising from, or in connection with, this Agreement, all *reserve contracts* and the provision of the *reserve* under any of them is limited to a maximum aggregate amount of $5,000,000.

### Regardless of the nature of any *claim*, the *Reserve Provider* is not liable in any circumstances for any:

#### damages or losses that are not direct and do not flow naturally from a breach of this Agreement or a *reserve contract*, even if they may reasonably be supposed to have been in the contemplation of both parties as a probable result of the breach at the time they entered into this Agreement or a *reserve contract*;

#### loss of profit, business opportunity, production, revenue, contract or goodwill (whether direct or indirect); or

#### damages or loss to the extent that a claim results from *AEMO’s* failure to act in accordance with this Agreement or a *reserve contract*, *legislation* or *good electricity industry practice*.

## Indemnity

Subject to **clause 10.2,** the *Reserve Provider* indemnifies *AEMO* against any liability or loss arising from, and any costs, charges or expenses incurred in connection with, a *claim* by a third person against *AEMO* with respect to, arising from, or in connection with, any act or omission of the *Reserve Provider* in relation to the provision of *reserve*.

## National Electricity Law

This Agreement does not vary or exclude the operation of sections 116, 119 or 120 or 120A of the *National Electricity Law*.

## Civil Liability Act 2002

The parties agree that Part 4 of the Civil Liability Act 2002 (NSW) will not apply to any *claim*, action, suit or proceeding under or in connection with this Agreement or any *reserve contract*.

# Force majeure

## Effect on performance of obligation

A party’s obligation under this Agreement and any *reserve contract* (other than an obligation to pay money) shall be suspended during the time and to the extent that the party (“*affected party*”) is unable to comply with that obligation by reason of the occurrence of an *event of force majeure*.

## Obligation to Notify

If an *affected party* becomes aware of a circumstance itreasonably considers constitutes or is likely to constitute or result in an *event of force majeure*, itmust:

### immediately give the other party notice of the circumstances and of the obligations under this Agreement and any *reserve contract* that have been, or will be, or are likely to be, affected by that circumstance; and

### keep the other party informed both at reasonable intervals and upon request by the other party as soon as practicable following the receipt of that request of:

#### the *affected party’s* estimate of the likely and actual commencement (as appropriate) of and duration of the *event of force majeure*;

#### the action taken and the action proposed to be taken by the *affected party* in complying with **clause 11.3(a)**;

#### the cessation of the *event of force majeure* or the successful mitigation of the effects of the *event of force majeure*; and

#### any other matter the other party reasonably requests in connection with the occurrence of the *event of force majeure* and the matters referred to in **paragraph (b)**.

## Obligation to mitigate

### As soon as practicable after the occurrence of an *event of force majeure*, the *affected party* must use reasonable endeavours (including incurring any reasonable expenditure of funds and rescheduling manpower and resources) to mitigate the consequences of that *event of force majeure* and minimise any resulting delay in the performance of its obligations under this Agreement or a *reserve contract*.

### The suspension granted under **clause 11.1** does not include any delay in the performance of the affected obligation attributable to a failure by the *affected party* to comply with **paragraph (a)**.

### The *affected party* bears the onus of proving that it has complied with its obligations under **paragraph (a)**.

### Nothing in **clause 11** requires the *affected party* to settle or compromise a *labour dispute* where the *affected party*, in its sole and absolute discretion, considers that course to be inappropriate.

# Termination

## Termination for default

A party (*“terminating party”*) may immediately terminate this Agreement or any *reserve contract* by notice to the other party (*“defaulting party”*) if:

(a) the *defaulting party* does not pay any money due under this Agreement or any *reserve contract* on the due date and the *defaulting party* does not pay the money within a further period of 45 *business days* after the *terminating party* serves notice on the *defaulting party* requiring payment;

(b) subject to **clause 12.2** the *defaulting party* does not carry out or meet any other material obligation under this Agreement or any *reserve contract* and in the case of a default that is capable of remedy, does not remedy that default within 60 *business days* after the *terminating party* serves notice on the *defaulting party* requiring it to be remedied;

(c) any representation or warranty made by the *defaulting party* in this Agreement or any *reserve contract* is materially inaccurate or untrue; or

(d) an *insolvency event* occurs in relation to the *defaulting party*.

## Termination by AEMO

(a) *AEMO* may terminate this Agreement or any *reserve contract* by giving notice to the *Reserve Provider* if, after being required by *AEMO* to do so, the *Reserve Provider*:

#### fails to demonstrate that it is capable of meeting the *contracted levels of performance*; or

#### indicates that the *reserve equipment* might not be capable of providing the relevant *reserve* in accordance with the *contracted levels of performance*.

(b) *AEMO* may terminate this Agreement without charge by giving notice to the *Reserve Provider* if the *Reserve Provider* fails to *activate* the *reserve* in a *trading interval* to more than 80% of the amount specified in an *instruction* for that *trading interval*.

## Termination for convenience

(a) *AEMO* may terminate this Agreement by giving the *Reserve Provider* not less than 5 *business days’* notice.

(b) The *Reserve Provider* may terminate this Agreement by giving *AEMO* not less than 15 *business days’* notice.

## Effect of termination of Agreement on reserve contract

### Subject to paragraph (b), any *reserve contract* under this Agreement will terminate effective immediately upon the termination of this Agreement under **clause 12.1** or **12.2**.

### Termination of this agreement under **clause 12.3** or the expiry of this Agreement under **clause 4**, does does not affect the continuation of any *reserve contract*.

## Termination Notices

A notice to terminate issued under **clause 12.1, 12.2** or **12.3** takes effect on the later of:

### the time it is given; and

### the time specified in the notice.

## Survival

### Expiry or termination of this Agreement or any *reserve contract* for any reason does not affect:

#### any rights of either party against the other that:

##### arose prior to the time at which expiry or termination occurred; and

##### otherwise relate to or might arise at any future date from any breach of this Agreement or a *reserve contract* occurring prior to the expiry or termination; or

#### the rights and obligations of the parties under **clauses 7.1** to **7.5**, **9**, **10**, **14** and **17**.

## Effect of termination

Termination of this Agreement under **clause 12.1** or 1**2.2** also has the effect of terminating all *reserve contracts*.

## Reduction of Reserve

If *AEMO* can terminate a *reserve contract* under **clause 12.1,** or **12.2**, *AEMO* may instead elect to reduce the *reserve* to be provided under the *reserve contract* by specifying so in the notice issued under **clause 12.1** or **12.2** (as applicable).

## No other termination

Subject to any written law to the contrary, a party must not terminate this Agreement or any *reserve contract* other than for a ground provided for under this Agreement.

# Assignment and sub‑contracting

## Assignment

### The *Reserve Provider* must not *dispose* its rights in this Agreement or any *reserve contract* or, in respect of *reserve equipment* owned, operated or controlled by the *Reserve Provider*, *reserve equipment* without first obtaining *AEMO’s* consent, which must not be unreasonably withheld or delayed.

### *AEMO* must give its consent for the purposes of **paragraph (a)** if:

#### the *Reserve Provider* *disposes* of the *reserve equipment* to one person or a group of persons (“*assignee*”); and

#### the assignee executes and delivers to *AEMO* a deed (in form and substance satisfactory to *AEMO*) prior to the *disposal* by which the *assignee* agrees to assume obligations that are substantially equivalent to the *Reserve Provider’s* obligations under this Agreement or any *reserve contract*.

## Sub‑contracting

### If the *Reserve Provider* sub‑contracts the performance of obligations under this Agreement or any *reserve contract*, the *Reserve Provider* remains responsible for the performance of those obligations.

### If AEMO sub‑contracts the performance of obligations or rights under this Agreement or any *reserve contract*, AEMO remains responsible for the performance of those obligations and rights.

# Dispute resolution

## *Registered Participant* dispute resolution procedure

### If the Reserve Provider is a *Registered Participant*:

### If a dispute arises in relation to this Agreement or any *reserve contract*, the *first stage dispute resolution processes* and the *second stage dispute resolution processes* apply.

### A party must not have recourse to litigation or *second stage dispute resolution processes* unless it has either given or received a *DMS referral notice.*

### **Paragraph (b)** does not prevent a party seeking an urgent interlocutory injunction from a court of competent jurisdiction.

### Unless otherwise agreed or determined under the *first stage dispute resolution processes* or the *second stage dispute resolution processes*, the parties must continue to perform their obligations despite the operation of **clause 14**.

## General dispute resolution procedure

### If the Reserve Provider is not a *Registered Participant*:

### If a party claims that a dispute has arisen between the parties relating to or arising out of this Agreement or a *reserve contract* (“*dispute*”), they must give the other party a notice(“*dispute notice*”).

### A *dispute notice* must include details of:

#### the nature of the dispute and the circumstances giving rise to the *dispute*;

#### the party’s proposed resolution of the *dispute*; and

#### contact details of the relevant delegate of that party with authority to resolve the *dispute* (“*delegate*”).

### Upon provision of a *dispute notice*, the procedure that is to be followed to settle a *dispute* is as follows:

#### first, negotiation under **paragraph (d)**;

#### second, if the *dispute* is not resolved by negotiation, mediation under **paragraphs (e)** and **(f)**;

#### third, if the *dispute* is not resolved by mediation within one month of the appointment of the mediator, the parties agree that either party may commence proceedings in court.

### Within 7 days after the date of the *dispute notice*, the *delegates* must meet and use their best endeavours to agree to a resolution of the *dispute*.

### If the *dispute* is not resolved by the *delegates* within 7 days of their first meeting or by such other timeframe as the parties agree, either party may refer the *dispute* to mediation by a single mediator appointed by agreement of the parties or if they fail to agree within 30 days of referral to mediation, a mediator appointed by the President of the Institute of Arbitrators and Mediators Australia (“*IAMA*”) acting on the request of either party.

### Unless the parties agree otherwise:

#### the mediation will be conducted by a mediator under the *IAMA* Mediation Rules (whether or not the mediator is a legal practitioner), except that to the extent of any inconsistency between this Agreement and the *IAMA* Mediation Rules, this Agreement will prevail;

#### each party may appoint a person, including a legally qualified person, to represent it or assist it in the mediation;

#### each party will bear their own costs relating to the preparation for and attendance at the mediation; and

#### the costs of the mediator and any other incidental costs will be borne equally by the parties.

### **Clause 14** does not prevent a party seeking an urgent interlocutory injunction from a court of competent jurisdiction.

### Unless otherwise agreed, the parties must continue to perform their obligations under this Agreement and any *reserve contract* despite the existence of a *dispute*.

# Warranties

### The *Reserve Provider* represents and warrants to *AEMO* as at the date of this Agreement and at all times after the date of this Agreement that:

#### during the period of *activation* of the *reserve* there will not be an increase in the demand or consumption of electricity from the *network* by any other equipment, plant or process owned, contracted or controlled directly or indirectly by the *Reserve Provider;*

#### it and its *representatives* are duly qualified and skilled to provide *reserve*;

#### it will provide *reserve* in accordance with all relevant *legislation*, *good electricity industry practice* and relevant Australian Standards and codes of practice;

#### it will ensure that data of the provision of *reserve* provided to *AEMO* for *AEMO’s* use in calculating payments and issuing statements in accordance with **clause 9** will be in a form suitable for use in *AEMO’s* systems, and will accurately reflect the level of provision of *reserve*;

#### the quantity of *reserve available* as notified by the *Reserve Provider* to *AEMO* from time to time including any quantity notified in the *Web Portal* is true and correct;

#### the *Reserve Provider’s* obligations under this Agreement and any *reserve contract* are enforceable in accordance with their terms;

#### if *reserve* is being provided under a *reserve contract*:

##### through the reduction of *load*, any relevant end users of electricity have agreed in writing to reducing their consumption of electricity or having their supply of electricity interrupted for the *Reserve Provider* to provide the *reserve* in accordance with a *reserve contract*; or

##### by *generation increase*, the owners of the *generating units* have agreed in writing with the *Reserve Provider* that the *generating units* may be utilised to enable the *Reserve Provider* to provide the *reserve* in accordance with a *reserve contract*; and

#### the *Reserve Provider* is entitled to carry out its obligations under this Agreement and any *reserve contract*.

### *AEMO* represents and warrants to the *Reserve Provider* as at the date of this Agreement and at all times after the date of this Agreement that its obligations under this Agreement and any *reserve contract* are enforceable in accordance with their terms.

# Compliance with Legislationand the Requirementsof an Authority

### Each party must comply with *legislation* in any way affecting this Agreement and any *reserve contract*.

### Each party must procure that all notices required to be given, all consents required to be obtained and any form of authorisation, registration or certification required by *legislation* for the purpose of complying with its obligations under this Agreement and any *reserve contract* are given or obtained.

### Each party must pay all fees and bear all costs connected with such notices, consents, authorisations, registrations and certifications.

### Each party must, upon demand by the other party (“*requesting party*”) at any time, provide to the *requesting party* all information necessary to establish to the satisfaction of the *requesting party* that the requirements of **paragraph (b)** have been complied with.

# General

## Notices

### Subject to **paragraph (b)** and the **Schedules**, all *communications* to a party must be:

#### in writing;

#### marked to the attention of the person named in respect of that party in the **Details**; and

#### left at, sent by ordinary pre-paid post (airmail if posted to or from a place outside Australia), or in electronic form, to the address, number, or electronic mail address of the addressee specified in respect of that party in the **Details**.

### Subject to the *Rules*, any:

#### *communications* given in the course of the day-to-day running of the *national grid* or the *national electricity market* by or on behalf of a party to the other including *instructions*;

#### request for *reserve* made by *AEMO* and *Confirmations* from *AEMO*;

#### offers to provide *reserve* in accordance with a *Request for Tender*; or

#### notifications of availability of the *reserve* and *NMIs* and *datastream suffixes* by the *Reserve Provider* in accordance with this Agreement*,*

must be made by automated electronic process, telephone or other instantaneous means of *communication* as notified by *AEMO*.

### Unless *communications* under **paragraph (b)** are recorded in some other way satisfactory to both parties, the parties must ensure that logs are kept in which persons or electronic systems giving and receiving those *communications* record brief details of their substance and timing.

### Unless a later time is specified in it, a *communication* takes effect from the time it is received.

### A *communication* is taken to be received:

#### in the case of a posted letter, on the 3rd (7th, if posted to or from a place outside Australia) *business day* after posting;

#### in the case of an electronic message, on production of a report by the computer from which the electronic message was sent that indicates that the message was received in its entirety at the electronic mail address of the recipient; and

#### in the case of *communications* under **paragraph (b)**, instantaneously.

### Other than *communications* given under **paragraph (b)**, if a *communication* is received, or deemed to be received, on a day that is not a *business day,* or after 4:00pm *EST* on a *business day*, it is taken to be received on the next *business day*.

### A party may at any time by notice given to the other party designate a different person, address or electronic mail address for the purposes of **clause 17.1** and the **Details** and any **Schedule**.

### If the automated electronic process, telephone or other instantaneous means of *communication* notified by *AEMO* for the purposes of clause 17.1(b) requires a data network connection to MarketNet, the *Reserve Provider* agrees to comply with the AEMO terms of use applicable to such connection as notified by *AEMO* from time to time.

## Exercise of Rights

Subject to the express provisions of this Agreement or a *reserve contract*, a party may exercise a right, power or remedy at its discretion, and separately or concurrently with another right, power or remedy. A single or partial exercise of a right, power or remedy by a party does not prevent a further exercise of that or of any other right, power or remedy. Failure by a party to exercise or delay in exercising a right, power or remedy does not prevent its exercise.

## No Waiver or Variation

### A right may only be waived in writing, signed by the party giving the waiver and:

### no other conduct of a party (including a failure to exercise, or delay in exercising, the right) operates as a waiver of the right, or otherwise prevents the exercise of the right;

### a waiver of a right on one or more occasions does not operate as a waiver of that right if it arises again; and

### the exercise of a right does not prevent any further exercise of that right or of any other right.

## Amendment

An amendment to this Agreement or a *reserve contract* will be effective only if made in writing and signed by the parties.

## Approvals and Consents

Subject to the express provisions of this Agreement or a *reserve contract*, a party may give conditionally or unconditionally or withhold its approval or consent in its absolute discretion.

## Continuing Indemnities

Each indemnity in this Agreement or a *reserve contract* is a continuing obligation, separate and independent from the other obligations of the parties and survives the end of this Agreement or a *reserve contract*.

## Payment not necessary before Claim

It is not necessary for a party to incur expense or make payment before enforcing a right of indemnity conferred by this Agreement or a *reserve contract*.

## Costs and Expenses

Costs, fees and expenses of a party covered by a right of indemnity include legal expenses, fees and charges incurred by the indemnified party on a solicitor‑own client basis and are not subject to taxation on a party‑and‑party or any other basis.

## Further Assurances

Each party agrees, at its own expense, on the request of another party to:

### do everything reasonably necessary to give effect to this Agreement and any *reserve contract* and the transactions contemplated by them (including the execution of documents); and

### use reasonable endeavours to cause relevant third parties to do likewise if necessary or desirable.

## Supervening Legislation

Any present or future *legislation* that operates to vary an obligation or right, power or remedy of a person in connection with this Agreement or a *reserve contract* is excluded to the extent permitted by law.

## Severability

If a provision of this Agreement or a *reserve contract* is void, unenforceable, or illegal in a jurisdiction, it is severed for that jurisdiction. The remainder of this Agreement or the *reserve contract* remains effective and the validity or enforceability of that provision in any other jurisdiction is not affected. This **clause 17.11** has no effect if the severance alters the basic nature of this Agreement or the *reserve contract* or is contrary to public policy.

## Entire Agreement

(a) Subject to the *Rules,* this Agreement constitutes the entire agreement of the parties in connection with membership of the Panel and any previous agreements, understandings and negotiations on that subject matter cease to have any effect.

(b) Subject to the *Rules*, each *reserve contract* constitutes the entire agreement of the parties in connection with the supply of *reserve* for the period covered by the *reserve contract* and any previous agreements, understandings and negotiations on that subject matter cease to have any effect.

## Confidential Information

All information exchanged between the parties under this Agreement or a *reserve contract* or during the negotiations preceding such agreements is declared by *AEMO* to be *confidential* *information* and must not be disclosed to any person except:

(a) for the purpose of assessing the viability and deliverability of the *reserve*, in which case the *Reserve Provider* hereby grants its consent to any relevant disclosures;

(b) in accordance with the *Rules*; and

(c) to persons nominated by participating jurisdictions for the purpose of AEMO consulting with participating jurisdictions and agreeing cost-sharing arrangements between regions (if applicable) as required under the National Electricity Rules in which case the *Reserve Provider* hereby grants its consent to any relevant disclosures;

(d) as contemplated by for the purpose complying with the *Rules,* the *RERT guidelines* and any relevant procedures published by *AEMO* in accordance with the *Rules* in which case the *Reserve Provider* hereby grants its consent to any relevant disclosures; and

(e) *AEMO* may publish the name of the *Reserve Provider*, the *reserve* volume (MW) and the *term* of this Agreement at the same time as it publishes details of agreements for long notice reserve (being *reserve* in response to a ‘long-notice situation’, as that term is described in the *RERT guidelines)* in accordance with the *RERT guidelines* in which case the *Reserve Provider* hereby grants its consent to any relevant disclosures.

## No other representations or warranties

Each party acknowledges that, in entering into this Agreement or a *reserve contract* it has not relied on any representations or warranties about its subject matter except as provided in this Agreement or the *reserve contract*.

## Counterparts

This agreement may be executed in counterparts. All counterparts when taken together are deemed to constitute one instrument. The counterparts may be executed and delivered by email or other electronic signature by one or more of the parties and the receiving party or parties may rely on the receipt of such document so executed and delivered electronically as if the original had been received.

## Governing Law & Jurisdiction

This Agreement, each *reserve contract* and the transactions contemplated by them are governed by the laws in force in the jurisdiction referred to in the **Details**. Each party submits to the non-exclusive jurisdiction of the courts of that place.

## No partnership, agency or trust

Nothing contained or implied in this Agreement or a *reserve contract*:

### constitutes or may be deemed to constitute a party the partner, agent or legal representative of any other party for any purpose whatsoever, or create or be deemed to create any partnership; or

### creates or may be deemed to create any agency or trust.

## Role of *AEMO*

### Nothing in this Agreement will oblige *AEMO* to grant or exercise any administrative or regulatory discretion, or otherwise fetter, constrain or otherwise impair the due exercise of any administrative or regulatory discretion exercisable by *AEMO*.

### Anything which *AEMO* does, fails to do or purports to do pursuant to its statutory rights, duties, powers and functions conferred by or under any law will not be deemed to be an act or omission of *AEMO* under this Agreement.

**EXECUTED** as an agreement

 Schedule 1 – Short-Notice Reserve – Unscheduled Reserve (Generation Increase)

1. Definitions

In this **Schedule**:

“*activation*” means *synchronising* the *reserve equipment* where required and increasing its output to the *firm capacity*.

“*activation constraints*” are detailed in the table in **Item 5.1**.

*“activation end time”* means the time the *activation* of the *reserve* must cease*.*

“*activation instruction*” means an instruction from *AEMO* for the *reserve* to become *activated* or *de-activated* (as the case may be)*.*

“*activation lead time*” means the maximum period required by the *Reserve Provider* to *activate* *reserve* in response to an *activation instruction* and is specified in **Item 4.**

*“activation start time”* means the time by which the *reserve* specified in an *activation instructions* is to be *activated.*

“*block*” means the minimum amount of *reserve* that can be *activated* by *AEMO.*

“*de-activation*” means reducing the output of the *reserve equipment* to the *network* as quickly as practicable until it is below its *market capacity* or is *de-synchronised*.

“*de-activation lead time*” means the maximum period required to *disable* the *reserve equipment*and is specified in **Item 4**.

“*firm capacity*” means the *reserve equipment* *loading level* specified in **Item 3**.

“*instruction*” means any notification by *AEMO* to the *Reserve Provider* in respect of the provision of *reserve* in accordance with a *reserve contract*.

“*market capacity*” means the *loading level* specified in **Item 3**, which is:

* + 1. is considered by *AEMO* to be likely to be available to the *market*; or
		2. provided, or will be provided, or made available for provision under any other arrangement or agreement.

"*minimum operating level*" means the minimum *loading level* at which the *reserve equipment* can operate continuously and is specified in **Item 4**.

*“NMI Notification Date”* means 1 November 2020.

“*pre-activation*” means preparing the *reserve equipment* for *activation.*

“*pre-activation instruction*” means an *instruction* to *pre-activate* the *reserve equipment*.

“*pre-activation lead time*” means the maximum period required to prepare the *reserve equipment* for *activation* and is specified in **Item 4**.

“*Vic AMI meter*“ means a smart meter installed in Victoria as part of the Victorian Government's Advanced Metering Infrastructure (AMI) Program

*“weekday”* means a day that is not a Saturday or Sunday or observed as a public holiday in the *region* in which the *reserve* is located.

1. Tenders for the Provision of Reserve

**2.1 Contact Persons for Tenders**

Subject to clause 17.1(b), *Requests for Tender* will be given on behalf of *AEMO* and any communications concerning a *Request for Tender* and offers in response to a *Request for Tender,* must be submitted on behalf of the *Reserve Provider* by the persons nominated in the table below:

|  |
| --- |
| **AEMO** |
| **Contact Person at all times:****Name/Title:****Telephone No:****Email:** | Control Room Manager |
| **Reserve Provider** |
| **Contact Person at all times:****Name/Title:****Telephone No:****Email:** |  |
| **Backup Contact Person at all times:****Name/Title:****Telephone No:****Email:** |  |

**2.2 No obligation to make an offer**

 The *Reserve Provider* is not obliged to respond to a *Request for Tender* and offer the *reserve* to *AEMO* if the *Request for Tender* relates to a request for *reserve* during the following periods:

|  |  |
| --- | --- |
| **Date** | **Time** |
|  |  |
|  |  |

1. Description of Reserve

The *reserve* comprises the provision of *generation* as described below:

| **Name of Generating Unit** | ***Firm Capacity* (MW)** | ***Market Capacity* (MW)** | ***Reserve*****(MW)****(Firm Capacity – Market Capacity)**  |
| --- | --- | --- | --- |
|
|  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| **Total *Reserve*** |  |  | MW |

1. Reserve Equipment

|  |  |
| --- | --- |
| **Name of Generating Unit****[[1]](#footnote-1)** |  |
| **Registration Status**  | [market/non-market] |
| **Location** |  |
| ***Connection Point*** |  |
| ***Minimum Operating Level*** | [ ] MW |
| ***Pre-activation Lead Time*** | [ ] hours |
| ***Activation Lead Time*** | [ ] hours |
| ***De-Activation Lead Time*** | [ ] hours |

1. Capabilities of Reserve Equipment
	1. ActivationConstraints

The *reserve equipment* is subject to the following *activation* *constraints*:

|  |  |
| --- | --- |
| **Name of Generating Unit**1 |  |
| **Minimum run-time,** i.e. the minimum period the *generating unit* must *generate.*For the avoidance of doubt, *AEMO* may issue an *instruction* to *de-activate* the *reserve* while the *reserve* is within the minimum run-time so that the *de-activation lead time* and minimum run-time are satisfied concurrently at the end of the minimum run-time. | [ ] hours |
| **Minimum off-time,** i.e. the minimum period between the last time the *generating unit* was *generating* and the time at which the *generating unit* can re-commence *generating.* | [ ] hours |
| **Other *activation constraints*** |  |

1. Contracted Levels of Performance

The *contracted levels of performance* comprise the provision of *generation* by the *reserve equipment* up to the total *reserve* that conforms to the following requirements:

* 1. Minimum Technical Requirements
1. The *reserve* must be capable of being *activated* by *instructions* to a single point of contact with operational responsibility for the *reserve*;
2. The *reserve* must be capable of being *activated* as a *block* of not less than 10 MW, which may be made up of smaller components that are managed by the *Reserve Provider*;
3. The *reserve* must capable of remaining *activated* for **at least 1 hour**;
4. Each *generating unit* comprising the *reserve equipment* must have a type 1, 2, 3 or 4 *metering installation* as required by Schedule 7.2 of the *Rules* or a *Vic AMI meter* to measure the electrical output or change in electrical consumption as a result of an *activation*; and
5. Each *generating unit* comprising the *reserve equipment* must be capable of *supplying* electricity to the *regional reference node* in the *region* where the *reserve* is or may be required.
	1. Performance Criteria

The *Reserve Provider* must be capable of:

(a) upon receiving from *AEMO* a *pre-activation instruction,* *pre-activating* the *reserve equipment* within the *pre-activation lead time;*

(b) upon receiving from *AEMO* an *activation instruction, generating* at the rate of change of the level of *generation* required by the *activation instruction*;

(c) upon receiving from *AEMO* an *activation instruction* to *de-activate*, *de-activating* the *reserve equipment* within the *de-activation lead time*; and

(d) delivering at least 80% of the quantity of *reserve* specified in the *reserve contract* during each *trading interval* covered by an *activation instruction*.

* 1. Availability notification by the Reserve Provider

At all times during a *reserve contract*, the *Reserve Provider* must notify *AEMO* of the quantity of *reserve* (MW) *available*.

The *Reserve Provider* must notify *AEMO* of the quantity of reserve *available* by specifying the quantity of reserve a*vailable* (MW) in the *Web Portal*. The quantity specified by the *Reserve Provider* must not exceed the quantity specified in the *reserve contract.*

If the *Reserve Provider* becomes aware of a material change of circumstances following the entry into a *reserve contract*, the *Reserve Provider* must as soon as practicable after becoming aware of it advise *AEMO*.

1. Requests for Provision of Reserve
	1. What AEMO may Request

Subject to any advice from the *Reserve Provider* that the *reserve* is not *available*, at any time during a *reserve contract*, *AEMO* may request the provision of any level of *generation* between the *market capacity* and the *firm capacity*.

* 1. Method of Requests

*Instructions* will be given by telephone, which *AEMO* will record in accordance with Rule 4.11.4, or such other method as notified by AEMO.

* 1. Contact Persons for Operational Purposes

Subject to clause 17.1(b), *instructions* will be given and received and communications concerning *instructions* must be made by the following persons on behalf of each party:

|  |
| --- |
| **AEMO** |
| **Contact Person at all times:****Name/Title:****Telephone No:****Email:** | Control Room Operator on shift |
| **Reserve Provider** |
| **Contact Person at all times:****Name/Title:****Telephone No:****Email:** |  |
| **Backup Contact Person at all times:****Name/Title:****Telephone No:****Email:** |  |

* 1. Pre-Activation Instruction

Subject to any *activation constraints*, *AEMO* may issue a *pre-activation instruction* at any time during a *reserve contract* requiring the *Reserve Provider* to:

(a) increase the *reserve equipment’s* output to the *minimum operating level;* or

(b) prepare the *reserve equipment* to *activate* above its *market capacity.*

*AEMO* may also request a time earlier than the time contemplated in **Item 4** by which the *reserve equipment* is to reach its *minimum operating level* or *market capacity*. The *Reserve Provider* must use reasonable endeavours to comply with the request.

The issue of a *pre-activation instruction* does not imply that an *activation instruction* will be issued.

* 1. Activation Instruction

Subject to any *activation constraints*, *AEMO* may issue an *activation instruction* to the *Reserve Provider* at any time during a *reserve contract* requesting the *Reserve Provider* to *activate* or *de-activate* the *reserve.* An *activation instruction*:

(a) must specify the *activation start time* (taking into account the *activation lead time*) and the *activation end time* (taking into account the *de-activation lead time*);

(b) must specify the *reserve* to be *activated* for each *trading interval* (in MWh) from the *activation start time* to the *activation end time*, which unless agreed otherwise between the parties, must not be more than the *firm capacity;*  and

(c) must not require the *reserve equipment* to *generate* below the *minimum operating level* unless the *activation instruction* is an *instruction* to *de‑activate*.

The *Reserve Provider* must comply with an *activation instruction* that complies with these requirements.

* 1. Terminating *activation instruction*

(a) At any time prior to the *activation start time* (taking into account the *activation lead time*) specified in an *activation instruction* AEMO may issue an *instruction* to the *Reserve Provider* terminating that *activation instruction* if *AEMO* acting reasonably, considers that the *reserve* to be provided pursuant to that *activation instruction* is not required*.*

(b) Taking into account the *activation lead time,* the *Reserve Provider* must comply with an *instruction* under (a).

1. Measurement and Verification
	1. Measurement

Actual *interval metering data* (not *estimated metering data* or *substituted metering data*) will be used to determine the quantity of *reserve* *activated* by the *reserve equipment.*

### The *Reserve Provider* must provide to *AEMO* a list of *NMI*’s and *datastreams* used to provide *reserve* in response to *activation* within 2 *business days* after *activation*.

The *NMI*’s and *datastreams* provided in the list by the *Reserve Provider* must only be *NMI*’s and *datastreams* that were notified to *AEMO* by the *Reserve Provider* prior to the *NMI Notification Date*.

Any relevant *metering installation* must be installed by a *Metering Provider*, and data collected by an *AEMO* accredited Metering Data Provider (category MDP 1-4 or, in respect of *Vic AMI meters*, such category accredited by *AEMO* entitled to collect data for *Vic AMI meters*).

The maximum level at which the *reserve* is taken to have been *activated* will be the level specified in relevant *activation instruction*.

* 1. Verification

*AEMO’s* *market* systems and energy management systems will be used to verify the quantity of *reserve* *activated* in accordance with a *reserve contract*.

If *AEMO* requests further information relating to the measurement and determination of the *activated* *reserve*, the *Reserve Provider* must provide that information to *AEMO* within 2 *business days* of *AEMO’s* request.

### The *Reserve Provider* will not be entitled to be paid the *usage charge* in relation to *reserve* provided by a *NMI* that is also included as a *NMI* in a listby another reserve provider. *AEMO* will notify the *Reserve Provider* of any *NMI* included in a list provided by the *Reserve Provider* which is included in a list by another reserve provider.

### The *Reserve Provider* will only be entitled to be paid a *usage charge* in relation to *reserve* provided by *NMIs* that were notified to *AEMO* by the *Reserve Provider* prior to the *NMI Notification Date*.

1. Charges
	1. Billing Period

Subject to clause 8, for each *billing period,* the *Reserve Provider* will be entitled to charge *AEMO*

(a) a *pre-activation charge* equal to product of $XXand the number of times a *pre-activation instruction* (not including *instructions* amending previous *instructions*)is given during the *billing period*; and

(b) where *reserve* has been *activated* in accordance with a *reserve contract* during the *billing period*, a *usage charge,* which is equal to the product of $XX, and the quantity (in MWh) of the *reserve* *activated* by the *reserve equipment* as measured at its *connection point* during each *trading interval* as a result of an *activation instruction* under a *reserve contract*.

Not more than one *pre-activation charge* is payable in a 24 hour period.

* 1. Adjustment to *charges*

### If, in respect of an *activation instruction*, either:

(i) the *Reserve Provider* has not *activated* the *reserve* in accordance with an *activation instruction* by the *activation start time* and, prior to the *Reserve Provider* *activating* the *reserve* but after the *activation start time*, AEMO has initiated involuntary load shedding; or

(ii) the *Reserve Provider* has not *activated* the *reserve* within 10 minutes of the *activation start time* (irrespective of whether or not AEMO has initiated involuntary load shedding); or

(iii) the *Reserve Provider* *activates* the *reserve* before the *activation start time* or within 10 minutes of the *activation start time* but does not then keep the *reserve activated* in full until the *activation* end time (or any earlier time if AEMO has instructed, or consented to, the *Reserve Provider* *de-activating* the *reserve* prior to the *activation* end time),

(iv) the *Reserve Provider* was already *generating* when AEMO issued the *pre-activation instruction*,

then the *Reserve Provider* is not entitled to any *pre-activation charge* in respect of the *reserve contract* (and the *pre-activation charge* associated with that *reserve contract* will be $0).

* + 1. If the *Reserve Provider* has not *activated* the reserve in the amount required in the *activation instruction*:
			1. within 10 minutes of the *activation start time*; or
			2. AEMO has initiated involuntary load shedding between the *activation start time* and the *activation* in the amount required in the *activation instruction*,

then the *pre-activation charge* payable in respect of that *reserve contract* will be determined as follows:

A = B x (C / D MW)

where:

A = the *pre-activation charge* payable in respect of that *reserve contract*;

B = the *pre-activation charge* that would otherwise have been payable under that reserve contract as determined in accordance with **item 9.1(a) above**; and

C = the Firm Capacity (in MW) of any *reserve* which was activated by the *Reserve Provider* before the *activation start time* or within 10 minutes of the *activation start time* and prior to any involuntary load shedding by AEMO that was initiated after the *activation start time,* and that was then *activated* in full until the *activation end time* (or any earlier time if AEMO has instructed, or consented, to the *Reserve Provider* *de-activating* the *reserve* prior to the *activation end time*).

D = the quantity of *Reserve* specified in a *Request for Tender*.

* + 1. If the *Reserve Provider* has *activated* the reserve to a level that is no more than 80% of the amount required in the *activation instruction*, then the *pre-activation charge* payable in respect of that *reserve contract* will be determined as follows:

A = B x (C / D MW)

where:

A = the *pre-activation charge* payable in respect of that *reserve contract*;

B = the *pre-activation charge* that would otherwise have been payable under that reserve contract as determined in accordance with **item 9.1(a) above**; and

C = the Firm Capacity (in MW) of any *reserve* which was activated by the *Reserve Provider* before the *activation start time* or within 10 minutes of the *activation start time* and that was then *activated* in full until the *activation end time* (or any earlier time if AEMO has instructed, or consented, to the *Reserve Provider* *de-activating* the *reserve* prior to the *activation end time*).

D = the quantity of *Reserve* specified in a *Request for Tender*.

* + 1. If the *Reserve Provider* offers to provide a quantity of *reserve* that is less than the quantity of *Reserve* specified in a *Request for Tender,* and AEMO accepts that offer, then the *pre-activation charge* payable in respect of the resulting *reserve contract* will be determined as follows:

E = F x (G / H)

where:

E = the *pre-activation charge* payable in respect of that *reserve contract*;

F = the *pre-activation charge* that would otherwise have been payable under that *reserve contract* as determined in accordance with item 9.1(a) above; and

G = the aggregate Firm Capacity (in MW) of all *reserve* that is the subject of that *reserve contract*.

H = the quantity of *Reserve* (in MW) specified in a *Request for Tender*.

### The adjustments under this **Item 9.2** to a *pre-activation charge* do not affect any other provision of this Agreement, including the payment of the *usage charge* in respect of any *reserve* which is *activated* during a *Reserve Period*.

### To the extent that:

###  the adjustments under **Item 9.2(a)** applies and the adjustment under either or both of **Items 9.2(b)** and **(c)** also apply, only the adjustment under paragraph **(a)** is to be applied.

### the adjustments under both of **Items 9.2(b)** and **(c)** apply, only the adjustment under **Item 9.2(c)** is to apply.

 Schedule 2 – Short-Notice Reserve – Unscheduled Reserve (Load Reduction)

1. Definitions

In this **Schedule**:

“*activation constraints*” are detailed in the table in **item 4**.

*“activation end time”* means the time the *activation* of the *reserve* specified in an *activation instruction* must cease*.*

“*activation instruction*” means an instruction from *AEMO* for the *reserve* to be *activated* or *de-activated* (as the case may be).

“*activation lead time*” means the maximum period between the issue of an *activation instruction* and the time at which the *reserve* is *activated* and is specified in **Item 4**.

“*block*” means the minimum amount of *reserve* that can be *activated* by *AEMO.*

“*consumer*” means a person listed as such in **Item 3**.

“*de-activate*” means the cessation of the provision of *reserve* required by an *activation instruction* and resuming the taking of supply of electricity.

“*de-activation lead time*” means the maximum period required for the *reserve* to be *de-activated* and is specified in **Item 4**.

“*firm capacity*” means the *loading level* specified in **Item 3**.

“*instruction*” means any notification by *AEMO* to the *Reserve Provider* in respect of the provision of *reserve* in accordance with a *reserve contract*.

“*load reduction*” is the reduction (in MW) in the level at which electricity is taken from the *network* at the *connection points* specified in **Item 3***.*

“*market capacity*” means the *loading level* specified in **Item 3**, which is:

* + 1. considered by *AEMO* to be likely to be available to the *market*; or

(b) provided, or will be provided, or made available for provision under any other arrangement or agreement, including any demand side management arrangement or agreement.

*“NMI Notification Date”* means 1 November 2020.

*“pre-activation”* means preparing *reserve* for *activation*.

“*pre-activation instruction*” means an *instruction* to the *Reserve Provider* to prepare the *reserve* for *activation.*

“*pre-activation lead time*” means the maximum period required for the *reserve* to reach a state of readiness to act upon an *activation instruction* and is specified in **Item 4**.

“*standby generating unit*” means a *generating unit* that is not *connected* to the *network* and will *generate* in order for the *Reserve Provider* to provide the *reserve*.

“*Vic AMI meter*“ means a smart meter installed in Victoria as part of the Victorian Government's Advanced Metering Infrastructure (AMI) Program

*“weekday”* means a day that is not a Saturday or Sunday or observed as a public holiday in the *region* in which the *reserve* is located.

1. Tenders for the Provision of Reserve

**2.1 Contact Persons for Tenders**

Subject to clause 17.1(b), *Requests for Tender* will be given on behalf of *AEMO* and any communications concerning a *Request for Tender* and offers in response to a *Request for Tender,* must be submitted on behalf of the *Reserve Provider* by the persons nominated in the table below:

|  |
| --- |
| **AEMO** |
| **Contact Person at all times:****Name/Title:****Telephone No:****Email:** | Control Room Manager |
| **Reserve Provider** |
| **Contact Person at all times:****Name/Title:****Telephone No:****Email:** |  |
| **Backup Contact Person at all times:****Name/Title:****Telephone No:****Email:** |  |

**2.2 No obligation to make an offer**

 The *Reserve Provider* is not obliged to respond to a *Request for Tender* and offer the *reserve* to *AEMO* if the *Request for Tender* relates to a request for *reserve* during the following periods:

|  |  |
| --- | --- |
| **Date** | **Time** |
|  |  |
|  |  |

1. Description of Reserve

The *reserve* is comprised of *load reduction* at the locations and in the amounts detailed in the following table:

|  | **Name of Consumer** | **Location of *Reserve*** | ***Firm Capacity***(MW)**(7 am – 10 pm *EST* *weekdays*)** | ***Market Capacity***(MW)**(7 am – 10 pm *EST* *weekdays*)** | ***Reserve****(Firm Capacity – Market Capacity)*(MW)**(7 am – 10 pm *EST* *weekdays*)** | ***Firm Capacity***(MW)**(7 am – 10 pm *EST* *weekend days*)**  | ***Market Capacity***(MW)**(7 am – 10 pm *EST* *weekend days*)**  | ***Reserve****(Firm Capacity – Market Capacity)*(MW)**(7 am – 10 pm *EST* *weekend days*)**  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |  |
| 11 |  |  |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |
| **Total *Reserve*** |  |  MW |  |  |  |

1. Characteristics of Reserve

| ***Pre-activation lead time*** | Hours |
| --- | --- |
| ***Activation lead time*** | Hours |
| ***De-activation lead time*** | Hours |
| **Maximum continuous operation** ie the maximum time the *reserve* can be *activated* continuously. | Hours |
| **Minimum continuous operation** ie“the minimum time the *reserve* can be *activated* continuously.For the avoidance of doubt, *AEMO* may issue an *instruction* to *de-activate* the *reserve* while the *reserve* is within the minimum continuous operation so that the *de-activation lead time* and minimum continuous operation are satisfied concurrently at the end of the minimum continuous operation. | Hours |
| **Minimum time between *activations*** | Hours |
| **Hours of the day the *reserve*** **is available for *activation*** |  |
| **Days of the week the *reserve*** **is available for *activation*** |  |
| **Maximum number of consecutive days the *reserve* can be *activated* in a week** |  |
| **Maximum number of days per week of *activation***  |  |
| **Maximum number of activations over the *term***  |  |
| **Other *activation constraints*** |  |

1. Not used
2. Contracted Levels of Performance

The *contracted levels of performance* comprise the provision of *load reduction* up to the total *reserve* that conforms to the following requirements:

* 1. Minimum Technical Requirements

### The *reserve* must be capable of being *activated* by *instructions* to a single point of contact with operational responsibility for the *reserve*;

### The *reserve* must be capable of being *activated* as a *block* of not less than 10 MW, which may be made up of smaller components that are managed by the *Reserve Provider*;

### The *reserve* must capable of remaining *activated* for **at least 1 hour**; and

### Each *connection point* for the *reserve* must have a type 1, 2, 3 or 4 metering installation as required by Schedule 7.2 of the *Rules* or a *Vic AMI meter* to measure the electrical output or change in electrical consumption as a result of *activation*.

* 1. Performance Criteria

The *Reserve* *Provider* must be capable of:

(a) upon receiving from *AEMO* a *pre-activation instruction*, preparing the *reserve* for *activation* within the *pre-activation lead time*;

(b) upon receiving from *AEMO* an *activation instruction*, *activating* the *reserve* within the *activation lead time;*

(c) upon receiving a *de-activation instruction* from *AEMO*, *de-activating* within the *de-activation lead time*; and

(d) delivering at least 80% of the quantity of *reserve* specified in the *reserve contract* during each *trading interval* covered by an *activation instruction*.

No part of the *reserve* shall be *activated* prior to receipt of a relevant *activation instruction* without *AEMO’s* prior consent.

*Activation* of the *reserve* must not lead to any consequent increase in the rate at which electricity is taken from the *network* by any other equipment or process owned by a *consumer* unless this effect has been deducted from the *reserve*.

* 1. Availability Notification by the Reserve Provider

At all times during a *reserve contract*, the *Reserve Provider* must notify *AEMO* of the quantity of *reserve* (MW) *available*.

The *Reserve Provider* must notify *AEMO* of the quantity of reserve *available* by specifying the quantity of reserve a*vailable* (MW) in the *Web Portal*. The quantity specified by the *Reserve Provider* must not exceed the quantity specified in the *reserve contract.*

If the *Reserve Provider* becomes aware of a material change of circumstances following the entry into a *reserve contract*, the *Reserve Provider* must as soon as practicable after becoming aware of it advise *AEMO*.

1. Requests for Provision of Reserve
	1. What AEMO may Request

Subject to any advice from the *Reserve Provider* that the *reserve* is not *available*, at any time during a *reserve contract*, *AEMO* may request any *load reduction* between the *market capacity* and *firm capacity*.

* 1. Method of Requests

*Instructions* will be given by telephone, which *AEMO* will record in accordance with Rule 4.11.4, or such other method as notified by AEMO.

* 1. Contact Persons for Operational Purposes

Subject to clause 17.1(b), *instructions* will be given and received and communications concerning *instructions* must be made by the following persons on behalf of each party:

|  |
| --- |
| **AEMO** |
| **Contact Person at all times:****Name/Title:****Telephone No:****Email:** | Control Room Operator on shift |
| **Reserve Provider** |
| **Contact Person at all times:****Name/Title:****Telephone No:****Email:** |  |
| **Backup Contact Person at all times:****Name/Title:****Telephone No:****Email:** |  |

* 1. Pre-Activation Instruction

Subject to any *activation constraints*, *AEMO* may issue a *pre*-*activation instruction* at any time during a *reserve contract* requiring the *Reserve Provider* to prepare *reserve* for *activation.* A *pre-activation instruction* must specify:

(a) the proposed *activation start time* (taking into account the *activation lead time*) and the proposed *activation end time* (taking into account the *de-activation lead time*); and

(b) the amount of *reserve* (in MWh) that the *Reserve Provider* must prepare for *activation* for each *trading interval.*

For a *load reduction* with a *pre-activation lead time* of zero, a *pre-activation instruction* will not be required and the *load reduction* shall be taken to be constantly in a state of readiness to act on an *activation instruction* issued by *AEMO*.

The issue of a *pre-activation instruction* does not imply that an *activation instruction* will be issued.

* 1. Activation Instruction

Subject to any *activation constraints*, *AEMO* may issue an *activation instruction* to the *Reserve Provider* at any time during a *reserve contract* requesting the *Reserve Provider* to *activate,* vary or *de-activate* the *reserve.* The *activation instruction* must specify:

(a) the *activation start time* (taking into account the *activation lead time*) and the *activation end time* (taking into account the *de-activation lead time*); and

(b) the amount of *reserve* the *Reserve Provider* must *activate* for each *trading interval* from the *activation start time* to the *activation end time* (in MWh), which unless agreed otherwise between the parties, must not be greater than the level specified in the relevant *Day Ahead Availability Notice* for that *reserve* and *trading interval.*

The *Reserve Provider* must comply with an *activation instruction* that complies with these requirements.

* 1. Terminating *activation instruction*

(a) At any time prior to the *activation start time* (taking into account the *activation lead time*) specified in an *activation instruction* AEMO may issue an *instruction* to the *Reserve Provider* terminating that *activation instruction* if *AEMO* acting reasonably, considers that the *reserve* to be provided pursuant to that *activation instruction* is not required*.*

(b) Taking into account the *activation lead time,* the *Reserve Provider* must comply with an *instruction* under (a).

1. Measurement and Verification
	1. Measurement

Measurement of any *reserve activated* under this Agreement will be in accordance with the following:

(a) Actual *interval metering data* (not *estimated metering data* or *substituted metering data*) will be used to determine the quantity of load reduction.

### (b) The *Reserve Provider* must provide to *AEMO* a list of *NMI*’s and *datastream suffixes* used to provide *reserve* under a *reserve contract* within 2 *business days* after *activation*.

(c) The *NMI*’s and *datastreams* provided in the list by the *Reserve Provider* must only be *NMI*’s and *datastreams* that were notified to *AEMO* by the *Reserve Provider* prior to the *NMI Notification Date*.

### (d) The *NMI’s* and *datastream* *suffixes* provided by the *Reserve Provider* to *AEMO* must:

### be *NMI’s* and *datastream suffixes* in the Market Settlement and Transfer Solutions (MSATS) system; and

### have actual *interval metering data* (not *estimated metering data* or *substituted metering data*) for all *trading intervals* for at least 100 calendar days prior to [day/*weekday*]on which *reserve* was *activated* and for the period of *activation*.

(e) Any relevant metering installation must be installed by a Metering Provider, and data collected by an AEMO accredited Metering Data Provider (category MDP 1-4 or, in respect of *Vic AMI meters*, such category accredited by AEMO entitled to collect data for *Vic AMI meters*).

(f) The maximum level at which *reserve* is taken to have been *activated* is the level specified in a relevant *activation instruction*.

* 1. Verification

Verification of the measurement of any *reserve activated* under this Agreement will be in accordance with the following:

(a) AEMO’s market systems, metering systems and energy management systems will be used to verify the quantity of reserve activated under a reserve contract.

### (b) The *Reserve Provider* will not be paid the *usage charge* in relation to *reserve* provided by a *NMI* that is also included as a *NMI* in a listby another reserve provider. *AEMO* will notify the *Reserve Provider* of any *NMI* included in a list provided by the *Reserve Provider* which is included in a list by another reserve provider.

### (c) The *Reserve Provider* will only be entitled to be paid a *usage charge* in relation to *reserve* provided by *NMIs* that were notified to *AEMO* by the *Reserve Provider* prior to the *NMI Notification Date*.

(d) If *AEMO* requests further information relating to the measurement and determination of the *activated* *reserve*, the *Reserve Provider* must provide that information to *AEMO* within 2 *business days* of *AEMO’s* request.

* 1. Calculation

The calculation of the quantity of *reserve activated* under this Agreement will be in accordance with the following:

### The aggregated electricity demand of all *NMI*’s and *datastreams* in the list provided by the *Reserve Provider* to *AEMO* after *activation* will be used to calculate the baseline and the amount of *reserve* *activated*. Baselines and *reserve* *activated* will not be calculated for individual *NMIs* and *datastreams*.

**Unadjusted baseline calculation**

$$b\_{t}=\frac{1}{S}\sum\_{i=1,2,..,S}^{}c\_{ti}$$

Where:

𝑏 = unadjusted baseline MWh for a given time interval (t)

i = one of S selected days

S = the set of selected days in the 100 calendar days immediately preceding the [day/*weekday*]on which *reserve* was *activated* and for which the calculation is being made (the **45 day period**). The days in the 45 day period selected for the set will be based on [day/*weekdays*]on which *reserve* was not *activated* (Non-**Activated Days**) and [day/*weekdays*]on which *reserve* was *activated* (**Activated Days**) determined as follows:

Step 1 - This set of selected days will normally comprise the 10 Non-Activated Days immediately preceding the [day/*weekday*]on which *reserve* was *activated* and for which the calculation is being made.

Step 2 - If, in the 45 day period, there are less than 10 Non-Activated Days but 5 or more Non-Activated Days, then S comprises those Non-Activated Days.

Step 3 - If, in the 45 day period, there are less than 5 Non-Activated Days, then S comprises the Non-Activated Days plus one or more of the Activated Days in the 45 day period will added to the number of Non-Activated Days so that the total number of days in the set equals 5. The Activated Days added to the Non-Activated Days will be determined based on the level of demand during the *trading intervals* during the period of *activation* on the Activated Days (with the Activated Day with the highest demand during any *trading interval* during the period of *activation* on that Activated Day ranked highest and added to the Non-Activated Days, with the next highest ranked Activated Day added and so on, until the total number of days in the set equals 5). If 2 or more Activated Days are ranked the same based on the highest demand during any *trading interval* during the period of *activation*, the Activated Day closest in time to the [day/*weekday*]on which *reserve* was *activated* and for which the calculation is being made will be ranked higher.

𝑡 = *trading interval*.

𝑐 = MWh electricity demand for a given *trading interval* (t) occurring on one of the selected days i.

**Relative Root Mean Squared Error (RRMSE)**

AEMO may measure the accuracy of the unadjusted baseline by determining the unadjusted baseline’s relative root mean squared error (RRMSE) by comparing the Reserve Provider’s unadjusted baseline against the [100] days not being Activated Days immediately preceding the [day/*weekday*]on which *reserve* was *activated* and for which the calculation is being made and if they vary from each other by a value greater than or equal to [20%], AEMO may adjust the variables which are used to determine the unadjusted baseline to ones which AEMO determines, acting reasonably, more accurately reflects the Reserve Provider’s typical demand.

The RRMSE is calculated as follows:



Where:

* n is the set of *trading intervals* from which *metering data* is taken for the of the calculation.
* *N* is the number of elements in set n
*  is the calculated baseline load associated with a *trading interval* in set *n*.
*  is the actual metered load associated with a *trading interval* in set *n*.

**Adjustment factor calculation**

$$a=\frac{\sum\_{t=s-8}^{t=s-3}\left(c\_{t}-b\_{t}\right)}{6}$$

Where:

𝑎 = adjustment factor (this may be positive or negative)

𝑠 = the start of the *trading interval* (t) during which the *reserve* has been *activated* and for which the calculation is being made.

c = MWh electricity demand for a given time interval (t) during the period of *reserve activation* for which the calculation is being made.

𝑠−𝑛 = *trading interval* n 30-min intervals before *activation* start time

If the adjustment factor is a positive amount, the adjustment factor is limited to an amount equivalent to 20% of the amount of the *reserve.*

If the *reserve* is *activated* for 2 or more separate periods on the same day, the adjustment factor *a* for each period of *activation* will be the adjustment factor calculated for the first period of *activation* on that day.

**Adjusted baseline calculation**

$$B\_{t}=b\_{t} +a $$

𝐵 = adjusted baseline MWh for a given time interval (t)

**Delivered *reserve***

$$D\_{t}=B\_{t}-c\_{t}$$

𝐷 = quantity of *reserve activated* for a given time interval (t)

Where D is more than the level specified in the relevant *activation instruction*, D = the level specified in the relevant *activation instruction.*

Where D is less than zero, D = 0*.*

1. Charges
	1. Billing Period

Subject to **item 8**, for For each *billing period,* the *Reserve Provider* will be entitled to charge *AEMO*:

(a) a *pre-activation charge* equal to product of $XX and the number of times a *pre-activation instruction* (not including *instructions* amending previous *instructions*)is given during the *billing period*; and

(b) subject to the *reserve* being available if *activated* for the [day/*weekday*] for which the *pre-activation charge* relates, where *reserve* has been *activated* during a *trading interval* in accordance with a *reserve contract* during the *billing period*, a *usage charge* equal to the product $xx and the quantity (in MWh) of the *reserve* *activated* as measured, verified and calculated in accordance with the relevant *reserve contract*.

Not more than one *pre-activation charge* is payable in a 24 hour period.

9.2 **Adjustment to charges**

### If, in respect of an *activation instruction*, either:

(i) the *Reserve Provider* has not *activated* the *reserve* in accordance with an *activation instruction* by the *activation start time* and, prior to the *Reserve Provider* *activating* the *reserve* but after the *activation start time*, AEMO has initiated involuntary load shedding; or

(ii) the *Reserve Provider* has not *activated* the *reserve* within 10 minutes of the *activation start time* (irrespective of whether or not AEMO has initiated involuntary load shedding); or

(iii) the *Reserve Provider* *activates* the *reserve* before the *activation start time* or within 10 minutes of the *activation start time* but does not then keep the *reserve activated* in full until the *activation* end time (or any earlier time if AEMO has instructed, or consented to, the *Reserve Provider* *de-activating* the *reserve* prior to the *activation* end time); or

(iv) the *Reserve Provider* was already offline when AEMO issued the *pre-activation instruction,*

then the *Reserve Provider* is not entitled to any *pre-activation charge* in respect of the *reserve contract* (and the *pre-activation charge* associated with that *reserve contract* will be $0).

* + 1. If the *Reserve Provider* has not *activated* the reserve in the amount required in the *activation instruction*:
			1. within 10 minutes of the *activation start time*; or
			2. AEMO has initiated involuntary load shedding between the *activation start time* and the *activation* in the amount required in the *activation instruction*,

then the *pre-activation charge* payable in respect of that *reserve contract* will be determined as follows:

A = B x (C / D MW)

where:

A = the *pre-activation charge* payable in respect of that *reserve contract*;

B = the *pre-activation charge* that would otherwise have been payable under that reserve contract as determined in accordance with **item 9.1(a) above**; and

C = the Firm Capacity (in MW) of any *reserve* which was activated by the *Reserve Provider* before the *activation start time* or within 10 minutes of the *activation start time* and prior to any involuntary load shedding by AEMO that was initiated after the *activation start time,* and that was then *activated* in full until the *activation end time* (or any earlier time if AEMO has instructed, or consented, to the *Reserve Provider* *de-activating* the *reserve* prior to the *activation end time*).

D = the quantity of *Reserve* specified in a *Request for Tender*.

* + 1. If the *Reserve Provider* has *activated* the reserve to a level that is no more than 80% of the amount required in the *activation instruction*, then the *pre-activation charge* payable in respect of that *reserve contract* will be determined as follows:

A = B x (C / D MW)

where:

A = the *pre-activation charge* payable in respect of that *reserve contract*;

B = the *pre-activation charge* that would otherwise have been payable under that reserve contract as determined in accordance with **item 9.1(a) above**; and

C = the Firm Capacity (in MW) of any *reserve* which was activated by the *Reserve Provider* before the *activation start time* or within 10 minutes of the *activation start time* and that was then *activated* in full until the *activation end time* (or any earlier time if AEMO has instructed, or consented, to the *Reserve Provider* *de-activating* the *reserve* prior to the *activation end time*).

D = the quantity of *Reserve* specified in a *Request for Tender*.

* + 1. If the *Reserve Provider* offers to provide a quantity of *reserve* that is less than the quantity of *Reserve* specified in a *Request for Tender,* and AEMO accepts that offer, then the *pre-activation charge* payable in respect of the resulting *reserve contract* will be determined as follows:

E = F x (G / H)

where:

E = the *pre-activation charge* payable in respect of that *reserve contract*;

F = the *pre-activation charge* that would otherwise have been payable under that *reserve contract* as determined in accordance with item 9.1(a) above; and

G = the aggregate Firm Capacity (in MW) of all *reserve* that is the subject of that *reserve contract*.

H = the quantity of *Reserve* (in MW) specified in a *Request for Tender*.

### The adjustments under this **Item 9.2** to a *pre-activation charge* do not affect any other provision of this Agreement, including the payment of the *usage charge* in respect of any *reserve* which is *activated* during a *Reserve Period*.

### To the extent that:

###  the adjustments under **Item 9.2(a)** applies and the adjustment under either or both of **Items 9.2(b)** and **(c)** also apply, only the adjustment under paragraph **(a)** is to be applied.

### the adjustments under both of **Items 9.2(b)** and **(c)** apply, only the adjustment under **Item 9.2(c)** is to apply.

Attachment 1 to Schedules 1 & 2 – Confirmation

[on AEMO letterhead]

To the Reserve Provider [name/address as per relevant Schedule]

**Re | Confirmation of Reserve Contract**

This is a *Confirmation* under clause XX of the RERT Panel Agreement dated xxx (“Agreement”).

*AEMO* confirms your agreement to provide the following *reserve* for the following charges:

|  |  |
| --- | --- |
| Period of *reserve contract*: | (*AEMO* will complete) |
| Date(s) *reserve* is available: | (*AEMO* will complete) |
| Time(s) *reserve* is available (*EST*): | (*AEMO* will complete) |
| Quantity of available *reserve*:  | (*AEMO* will complete) |
| Location of available *reserve*:[[2]](#footnote-2) | (*AEMO* will complete) |

This *Confirmation* incorporates clauses 1 and 3 to 17 of the Agreement and any Schedule X, which collectively become a *reserve contract*.

Italicised terms are defined in the Agreement.

Dated:

Signed by XX in accordance with the Agreement.

Attachment 2 to Schedules 1 & 2 – Request for Tender

[on AEMO letterhead]

To the Reserve Provider [name/address as per relevant Schedule]

**Re | Request for Tender**

This is a *Request for Tender* under clause 3.2 of the RERT Panel Agreement dated xxx (“Agreement”). *AEMO* requests your tender for the provision of *reserve* as follows:

|  |  |
| --- | --- |
| Date(s) *reserve* is required: | (*AEMO* will complete) |
| Time(s) *reserve* is required (*EST*): | (*AEMO* will complete) |
| Commencement and completion dates of proposed *reserve contract*: | (*AEMO* will complete) |
| Quantity of *reserve* required:  | (*AEMO* will complete) |
| Location of *reserve* required:[[3]](#footnote-3) | (*AEMO* will complete) |

**Your tender is required by XXam/pm[[4]](#footnote-4) EDST on [ insert date ] on the form of tender attached. If you fail to submit a tender by this date and time, *AEMO* will assume that you do not wish to submit a tender.**

Note that if your tender is accepted by *AEMO*, *AEMO* will send you a *Confirmation*, whereupon a *reserve contract* will be entered into that will incorporate the terms contained in the *Confirmation* and clauses 1 and 3 to 17 of the Agreement and Schedule X.

Italicised terms are defined in the Agreement.

Dated:

Signed by XX in accordance with the Agreement.

Attachment 3 to Schedules 1 & 2 – Form of Tender

[on Reserve Provider letterhead]

To AEMO[name/address as per relevant Schedule]:

**Re | Tender for the Provision of Reserve**

In response to your Request for Tender dated xxx, we offer to provide the following reserve:

|  |  |
| --- | --- |
| Date(s) *reserve* is available: | (*Reserve Provider* to complete) |
| Time(s) *reserve* is available (*EST*): | (*Reserve Provider* to complete) |
| Quantity of available *reserve*:  | (*Reserve Provider* to complete) |
| Location of available *reserve*:[[5]](#footnote-5) | (*Reserve Provider* to complete) |

We confirm that the *reserve* being offered to *AEMO* is not already contracted for the period covered by this offer and will not otherwise be made available through *central dispatch*.

We also confirm that if our tender is accepted by *AEMO*, *AEMO* will send us a *Confirmation*, whereupon a *reserve contract* will be entered into that will incorporate the terms contained in the *Confirmation* and clauses 1 and 3 to 17 of the Agreement and Schedule X.

Italicised terms are defined in the Agreement.

Dated:

Signed by XX in accordance with the Agreement.

Signing page

|  |  |  |
| --- | --- | --- |
| **SIGNED** by XXas authorised representative for and on behalf of **AUSTRALIAN ENERGY MARKET OPERATOR LIMITED** in the presence of: Signature of witness Name of witness (block letters) Address of witness | )))))))))))))))))))) |  By executing this Agreement the signatory warrants that the signatory is duly authorised to execute this Agreement on behalf of **AUSTRALIAN ENERGY MARKET OPERATOR LIMITED** |
| **Date signed:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |  |  |

|  |  |  |
| --- | --- | --- |
| **SIGNED** by XXas authorised representative for and on behalf of **xxx** in the presence of: Signature of witness Name of witness (block letters) Address of witness | ))))))))))))))))) |  By executing this Agreement the signatory warrants that the signatory is duly authorised to execute this Agreement on behalf of **xxx** |
| **Date signed:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |  |  |

1. Copy table and use one for each Generating Unit involved. [↑](#footnote-ref-1)
2. Applicable only if the reserve relates to load reduction and reserve offered is not all of the load reduction described in the relevant schedule – delete this row if this applies and this footnote. [↑](#footnote-ref-2)
3. Applicable only if the reserve relates to load reduction and reserve offered is not all of the load reduction described in the relevant schedule – delete this row if this applies and this footnote. [↑](#footnote-ref-3)
4. Delete whichever is inapplicable. [↑](#footnote-ref-4)
5. Applicable only if the reserve relates to load reduction and reserve offered is not all of the load reduction described in the relevant schedule – delete this row if this applies and this footnote. [↑](#footnote-ref-5)