



## **National Electricity Amendment (Integrating energy storage systems into the NEM) Rule 2021 No. 13**

under the National Electricity Law to the extent applied by:

- (a) the National Electricity (South Australia) Act 1996 of South Australia;
- (b) the Electricity (National Scheme) Act 1997 of the Australian Capital Territory;
- (c) the Electricity - National Scheme (Queensland) Act 1997 of Queensland;
- (d) the Electricity - National Scheme (Tasmania) Act 1999 of Tasmania;
- (e) the National Electricity (New South Wales) Act 1997 of New South Wales;
- (f) the National Electricity (Victoria) Act 2005 of Victoria;
- (g) the National Electricity (Northern Territory) (National Uniform Legislation) Act 2015 of the Northern Territory; and
- (h) the Australian Energy Market Act 2004 of the Commonwealth.

The Australian Energy Market Commission makes the following Rule under the National Electricity Law.

Anna Collyer  
Chairperson  
Australian Energy Market Commission

## **National Electricity Amendment (Integrating energy storage systems into the NEM) Rule 2021 No. 13**

### **1 Title of Rule**

This Rule is the *National Electricity Amendment (Integrating energy storage systems into the NEM) Rule 2021 No. 13*.

### **2 Commencement**

Schedule 1 of this Rule commences operation on 3 June 2024.

Schedule 2 of this Rule commences operation on 3 June 2024.

Schedule 3 of this Rule commences operation on 3 June 2024.

Schedule 4 of this Rule commences operation on 3 June 2024.

Schedule 5 of this Rule commences operation on 3 June 2024.

Schedule 6 of this Rule commences operation on 3 June 2024.

Schedule 7 of this Rule commences operation on 9 December 2021.

### **3 Amendment to the National Electricity Rules**

The National Electricity Rules are amended as set out in Schedule 1.

### **4 Amendment to the National Electricity Rules**

The National Electricity Rules are amended as set out in Schedule 2.

### **5 Amendment to the National Electricity Rules**

The National Electricity Rules are amended as set out in Schedule 3.

### **6 Amendment to the National Electricity Rules**

The National Electricity Rules are amended as set out in Schedule 4.

### **7 Amendment to the National Electricity Rules**

The National Electricity Rules are amended as set out in Schedule 5.

### **8 Amendment to the National Electricity Rules**

The National Electricity Rules are amended as set out in Schedule 6.

### **9 Savings and Transitional Amendment to the National Electricity Rules**

The National Electricity Rules are amended as set out in Schedule 7.

## **Schedule 1      Amendment to the National Electricity Rules**

(Clause 3)

### **[1] Clause 2.1.2      General**

In clause 2.1.2(d), omit "2.2" and substitute "2.1A".

### **[2] Clause 2.1.3      Registration information resource and guidelines**

In clause 2.1.3(d)(1), omit "under clause 2.2.1(c) from the requirement to register as a *Generator*" and substitute "under clause 2.1A.2 from the requirement to register in accordance with clause 2.1A.1".

### **[3] Clause 2.1.3      Registration information resource and guidelines**

Omit clause 2.1.3(d)(2) and substitute:

- (2) the circumstances under which *AEMO* will impose terms and conditions in relation to classification under any of the following clauses, and the nature of those terms and conditions:
  - (i) clause 2.2.2(b1), (b3) or (b4);
  - (ii) clause 2.2.3(c);
  - (iii) clause 2.2.7(c1);
  - (iv) clause 2.3.6(g); and
  - (v) clause 2.3D.1(g); and

### **[4] Rule 2.1A      Obligation to register (non-network categories)**

After rule 2.1, insert new rule 2.1A:

#### **2.1A      Obligation to register (non-network categories)**

##### **2.1A.1      Obligation to register for non-exempt generating systems and integrated resource systems**

- (a) Subject to clause 2.1A.2, a person must not engage in the activity of owning, controlling or operating a *generating system* that is *connected* to a *transmission system* or *distribution system* unless that person is registered in relation to that *generating system* as either an *Integrated Resource Provider* or a *Generator* at the election of the person required to register.

- (b) Subject to clause 2.1A.2, a person must not engage in the activity of owning, controlling or operating an *integrated resource system* that is *connected* to a *transmission system* or *distribution system* unless that person is registered in relation to that *integrated resource system* as an *Integrated Resource Provider*.

#### **2.1A.2 Exemptions from registration in respect of certain generating systems and integrated resource systems**

- (a) *AEMO* may, in accordance with the *registration information resource and guidelines*, exempt a person or class of persons from the requirement to register in accordance with clause 2.1A.1, subject to such conditions as *AEMO* deems appropriate, where (in *AEMO's* opinion) an exemption is not inconsistent with the *national electricity objective*.
- (b) Without limitation, an exemption may be given which only relieves a person or class of persons from the requirement to register in accordance with clause 2.1A.1 in relation to certain specified *generating systems* or *integrated resource systems* or classes of *generating systems* or *integrated resource systems*.
- (c) Nothing in rule 2.2 requires the classification of any *generating unit* or *bidirectional unit* which forms part of a *generating system* or *integrated resource system* in respect of which an exemption under paragraph (a) applies.
- (d) An exemption under paragraph (a) does not exempt a person from any other requirements of this rule that may be applicable to the person.

#### **2.1A.3 Purchasing and selling electricity directly in the market**

A person must not engage in the activity of selling or purchasing electricity directly in the *market* at any *connection point*, unless that person is registered by *AEMO* as a *Market Participant* and that *connection point* is classified as one of that person's *market connection points*.

#### **2.1A.4 Providing wholesale demand response**

A person must not engage in the activity of offering and providing *wholesale demand response* in accordance with Chapter 3 unless that person is registered by *AEMO* as a *Demand Response Service Provider* and the relevant response is provided by a *wholesale demand response unit* classified by that person.

#### **2.1A.5 Providing market ancillary services**

A person must not engage in the activity of offering and providing *market ancillary services* in accordance with Chapter 3 unless that person is registered by *AEMO* as an *Ancillary Service Provider* and the relevant service is provided by an *ancillary service unit* classified by that person.

**[5] Rule 2.1B Registration in relation to the sale or purchase of electricity and services**

After rule 2.1A, insert new rule 2.1B:

**2.1B Registration in relation to the sale or purchase of electricity and services**

**2.1B.1 Registration as a Generator**

To be eligible to register as a *Generator* in respect of a *generating system*, a person must:

- (a) obtain the approval of *AEMO* in accordance with rule 2.2 to classify each of the *generating units* that form part of the *generating system* that the person owns, operates or controls, or from which it otherwise sources electricity, as:
  - (1) a *scheduled generating unit*, a *semi-scheduled generating unit* or a *non-scheduled generating unit*; and
  - (2) a *market generating unit* or a *non-market generating unit*;
- (b) classify the *generating units* in accordance with *AEMO's* approval as referred to in paragraph (a);
- (c) satisfy *AEMO* that the *generating system* will be capable of meeting or exceeding its *performance standards*; and
- (d) except where the person is classifying only *non-market generating units*, satisfy the requirements in rule 2.4 for registration as a *Market Participant*.

**2.1B.2 Registration as an Integrated Resource Provider**

- (a) To be eligible to register as an *Integrated Resource Provider*, a person must do one or more of the following:
  - (1) satisfy the requirements of paragraph (b) for registration as an *Integrated Resource Provider* in respect of an *integrated resource system* or a *generating system*;
  - (2) satisfy *AEMO* that the person intends to classify, in accordance with clause 2.3.4(b), a *connection point* as one of its *market connection points*; or
  - (3) satisfy *AEMO* that the person intends to classify, in accordance with clause 2.2.8, a *small resource connection point* as one of its *market connection points*,

and except where the person is classifying only *non-market generating units* or *non-market bidirectional units*, the person must satisfy the requirements in rule 2.4 for registration as a *Market Participant*.

- (b) To be eligible to register as an *Integrated Resource Provider* in respect of an *integrated resource system* or a *generating system*, a person must:
- (1) in relation to an *integrated resource system*, obtain the approval of *AEMO* to classify in accordance with rule 2.2 any *bidirectional unit* that forms part of the *integrated resource system* that the person owns, operates or controls, or from which it otherwise sources electricity, as:
    - (i) a *scheduled bidirectional unit* or a *non-scheduled bidirectional unit* or other applicable scheduling classification or classifications; and
    - (ii) a *market bidirectional unit* or a *non-market bidirectional unit* or other applicable market participation classification;
  - (2) in relation to an *integrated resource system* or *generating system*, obtain the approval of *AEMO* to classify in accordance with rule 2.2 any *generating unit* that forms part of the *integrated resource system* or *generating system* that the person owns, operates or controls, or from which it otherwise sources electricity, as:
    - (i) a *scheduled generating unit*, a *semi-scheduled generating unit* or a *non-scheduled generating unit*; and
    - (ii) a *market generating unit* or a *non-market generating unit*;
  - (3) classify the relevant *bidirectional units* or *generating units* in accordance with *AEMO's* approval as referred to in subparagraph (1) or (2); and
  - (4) satisfy *AEMO* that the *integrated resource system* or *generating system* will be capable of meeting or exceeding its *performance standards*.

### **2.1B.3 Expected closure year notices**

- (a) A person registered as:
- (1) a *Generator* or *Integrated Resource Provider* in respect of a *scheduled generating unit* or *semi-scheduled generating unit*; or
  - (2) an *Integrated Resource Provider* in respect of a *scheduled bidirectional unit*,

must notify *AEMO* of the year in which the person expects the relevant *generating unit* or *bidirectional unit* to cease supplying electricity to the *transmission network* or *distribution network* at its *connection point* (*expected closure year*).

- (b) The *Generator* or *Integrated Resource Provider* in respect of a *scheduled generating unit*, *semi-scheduled generating unit* or *scheduled bidirectional unit* must:
  - (1) notify *AEMO* of the *expected closure year* for the unit promptly after *AEMO* approves classification of the unit under rule 2.2; and
  - (2) immediately notify *AEMO* of any change to the *expected closure year* for the unit.

#### **2.1B.4 Registration as a Customer**

- (a) To register as a *Customer*, a person must:
  - (1) satisfy the requirements in rule 2.4 for registration as a *Market Participant*; and
  - (2) satisfy *AEMO* (acting reasonably) that:
    - (i) the person intends to classify, in its capacity as a *Customer*, a *connection point* as one of its *market connection points*; or
    - (ii) registration is for the purpose of acting as a *RoLR*.
- (b) A *Customer's* activities only relate to *connection points* it has classified (in its capacity as a *Customer*) as *market connection points* or its activities as a *RoLR* and only while it is also registered with *AEMO* as a *Customer*.

#### **2.1B.5 Registration as a Demand Response Service Provider**

- (a) To register as a *Demand Response Service Provider*, a person must:
  - (1) satisfy the requirements in rule 2.4 for registration as a *Market Participant*; and
  - (2) obtain the approval of *AEMO* to classify:
    - (i) a *qualifying load* as a *wholesale demand response unit* in accordance with clause 2.3.6; or
    - (ii) *plant* as an *ancillary service unit* in accordance with clause 2.3D.1.
- (b) A *Demand Response Service Provider's* activities only relate to *qualifying loads* it has classified as *wholesale demand response units* or *plant* it has classified as *ancillary service units* (in each case in its capacity as a *Demand Response Service Provider*) and only while it is also registered with *AEMO* as a *Demand Response Service Provider*.



**[6] Rule 2.2 Generator**

Omit the heading of rule 2.2 and substitute:

**2.2 Classification of generating units and bidirectional units**

**[7] Clause 2.2.1 Registration as a Generator**

Omit clause 2.2.1 in its entirety and substitute:

**2.2.1 [Deleted]**

**[8] Clause 2.2.2 Scheduled Generator**

Omit the heading of clause 2.2.2 and substitute:

**2.2.2 Scheduled production units**

**[9] Clause 2.2.2 Scheduled production units**

After clause 2.2.2(a) insert:

- (a1) A *bidirectional unit* which has a *nameplate rating* of 5 MW or greater or is part of a group of *bidirectional units connected* at a common *connection point* with a combined *nameplate rating* of 5 MW or greater must be classified as a *scheduled bidirectional unit* unless *AEMO* approves its classification as:
  - (1) a *non-scheduled bidirectional unit* in accordance with clause 2.2.3;
  - (2) a *scheduled generating unit* and a *scheduled load* in accordance with paragraph (b2);
  - (3) two separately classified *plant* in accordance with paragraph (b4), one being a *semi-scheduled generating unit* and the other a *scheduled bidirectional unit*; or
  - (4) a *semi-scheduled generating unit* in accordance with clause 2.2.7(c1).

**[10] Clause 2.2.2 Scheduled production units**

Omit clause 2.2.2(b) and substitute:

- (b) A person must not classify a *generating unit* or *bidirectional unit* as a *scheduled generating unit* or *scheduled bidirectional unit* unless it has obtained the approval of *AEMO* to do so. Where the relevant classification is required under paragraph (a) or (a1), *AEMO* must approve the classification if it is satisfied that:
  - (1) the person has submitted data in accordance with schedule 3.1;



- (2) the person has adequate communications and/or telemetry to support the issuing of *dispatch instructions* and the audit of responses; and
- (3) in the case of a *bidirectional unit*, the unit is capable of transitioning linearly from consuming to producing electricity and vice versa.

### **[11] Clause 2.2.2 Scheduled production units**

Omit clause 2.2.2(b1) and substitute:

- (b1) *AEMO* may, on an application being made for the purposes of paragraph (b), approve the following classifications on such terms and conditions as *AEMO* considers appropriate and if it is satisfied of the matters in paragraphs (b)(1) to (3):
  - (1) classification as a *scheduled generating unit* of:
    - (i) a *generating unit* with a *nameplate rating* of less than 30 MW; or
    - (ii) a *generating unit* that is part of a group of *generating units connected* at a common *connection point* with a combined *nameplate rating* of less than 30 MW; or
  - (2) classification as a *scheduled bidirectional unit* of:
    - (i) a *bidirectional unit* with a *nameplate rating* of less than 5MW for either production or consumption; or
    - (ii) a group of *bidirectional units connected* at a common *connection point* with either a combined *nameplate rating* of less than 5 MW for production or a combined *nameplate rating* of less than 5 MW for consumption.

### **[12] Clause 2.2.2 Scheduled production units**

After clause 2.2.2(b1) insert:

- (b2) *AEMO* must approve (and must only approve) an application for classification of a *bidirectional unit* as a *scheduled generating unit* if:
  - (1) *AEMO* is satisfied that the *bidirectional unit* is not capable of transitioning linearly from consuming to producing electricity and vice versa; and
  - (2) *AEMO* also approves in accordance with clause 2.3.4A the classification of that part of the *plant* that consumes electricity as a *scheduled load*.
- (b3) In relation to an application under paragraph (b2) to classify a *bidirectional unit* as a *scheduled generating unit*, *AEMO* may approve

the classification on such terms and conditions as *AEMO* considers appropriate.

- (b4) *AEMO* may, on an application being made for the purposes of paragraph (a1)(3), approve on such terms and conditions as *AEMO* considers appropriate, classification of a *bidirectional unit* that is a *coupled production unit* as:
- (1) a *semi-scheduled generating unit* in respect of any part of the *plant* that satisfies the criteria for classification as a *semi-scheduled generating unit* under clause 2.2.7(b); and
  - (2) a *scheduled bidirectional unit* in respect of any part of the *plant* that satisfies the criteria for classification under this clause or clause 2.2.3 as applicable.

### **[13] Clause 2.2.2 Scheduled production units**

In clause 2.2.2(c), omit "clause 2.2.2(b1)" and substitute "paragraph (b1), (b3) or (b4)".

### **[14] Clause 2.2.2 Scheduled production units**

Omit clause 2.2.2(e) and substitute:

- (e) A *Generator* or *Integrated Resource Provider* is taken to be:
- (1) a *Scheduled Generator* only in so far as its activities relate to any *scheduled generating unit*; and
  - (2) a *Scheduled Integrated Resource Provider* only in so far as its activities relate to any *scheduled bidirectional unit*.

### **[15] Clause 2.2.2 Scheduled production units**

Omit clause 2.2.2(f) and substitute:

- (f) A *Scheduled Generator* must operate any *scheduled generating unit*, and a *Scheduled Integrated Resource Provider* must operate any *scheduled bidirectional unit*, in accordance with the *central dispatch* process.

### **[16] Clause 2.2.2 Scheduled production units**

Omit clause 2.2.2(g).

### **[17] Clause 2.2.2 Scheduled production units**

Omit clause 2.2.2(h).

### **[18] Clause 2.2.3 Non-Scheduled Generator**

Omit the heading of clause 2.2.3 and substitute:

### **2.2.3 Non-scheduled production units**

#### **[19] Clause 2.2.3 Non-scheduled production units**

After clause 2.2.3(a) insert:

- (a1) *A bidirectional unit with a nameplate rating of less than 5 MW (not being part of a group of bidirectional units with a combined nameplate rating of 5 MW or greater) must be classified as a non-scheduled bidirectional unit unless AEMO approves its classification as a scheduled bidirectional unit under clause 2.2.2(b).*

#### **[20] Clause 2.2.3 Non-scheduled production units**

Omit clause 2.2.3(b) and substitute:

- (b) *A person must not classify a generating unit as a non-scheduled generating unit or a bidirectional unit as a non-scheduled bidirectional unit unless the person has obtained the approval of AEMO to do so. AEMO must approve the classification if it is satisfied that the physical and technical attributes of the relevant generating unit or bidirectional unit are such that it is not practicable for it to participate in central dispatch.*

#### **[21] Clause 2.2.3 Non-scheduled production units**

Omit clause 2.2.3(c) and substitute:

- (c) *If, in relation to an application under paragraph (b), in AEMO's opinion it is necessary for any reason (including power system security) for the relevant Generator or Integrated Resource Provider to comply with some of the obligations of a Scheduled Generator or Semi-Scheduled Generator for that generating unit or Scheduled Integrated Resource Provider for that bidirectional unit, AEMO may approve the classification on such terms and conditions as AEMO considers reasonably necessary.*

#### **[22] Clause 2.2.3 Non-scheduled production units**

In clause 2.2.3(e), after "A Generator" insert "or an Integrated Resource Provider".

#### **[23] Clause 2.2.3 Non-scheduled production units**

After clause 2.2.3(e), insert:

- (e1) *An Integrated Resource Provider is taken to be a Non-Scheduled Integrated Resource Provider only in so far as its activities relate to a non-scheduled bidirectional unit.*

**[24] Clause 2.2.3 Non-scheduled production units**

Omit clause 2.2.3(f) and substitute:

- (f) Subject to clause 3.8.2(e), *non-scheduled generating units* and *non-scheduled bidirectional units* do not participate in *central dispatch*, other than as *ancillary service units* where applicable.

**[25] Clause 2.2.4 Market Generator**

Omit the heading of clause 2.2.4 and substitute:

**2.2.4 Market generating units**

**[26] Clause 2.2.4 Market generating units**

In clause 2.2.4(a), omit "clause 2.2.5(a)" and substitute "clause 2.2.5".

**[27] Clause 2.2.4 Market generating units**

In clause 2.2.4(b), after "A *Generator*" insert "or an *Integrated Resource Provider*".

**[28] Clause 2.2.4 Market generating units**

In clause 2.2.4(c), omit "at the *spot price* applicable at the *connection point* as determined for each *trading interval*".

**[29] Clause 2.2.4 Market generating units**

Omit clause 2.2.4(d) (excluding the **Note**) and substitute:

- (d) A *Market Generator* must purchase all electricity *supplied* through the *national grid* to the *connection point* for each of its *market generating units* from the *spot market* and make payments to *AEMO* for such electricity in accordance with the provisions of Chapter 3.

**[30] Clause 2.2.5 Non-Market Generator**

Omit the heading of clause 2.2.5 and substitute:

**2.2.5 Non-market generating units**

**[31] Clause 2.2.5 Non-market generating units**

Omit clause 2.2.5(a) and substitute:

- (a) A person must not classify a *generating unit* as a *non-market generating unit* unless the person has obtained the approval of *AEMO* to do so.

**[32] Clause 2.2.5 Non-market generating units**

After clause 2.2.5(a), insert new clause 2.2.5(a1):

- (a1) *AEMO* must approve a request for classification of a *generating unit* as a *non-market generating unit* if (and only if):
  - (1) the *generating unit* is classified as a *non-scheduled generating unit*; and
  - (2) *AEMO* is satisfied that a *Market Customer* has classified the *connection point* for the *generating unit* as one of its *market connection points* under clause 2.3.4.

**[33] Clause 2.2.5 Non-market generating units**

In clause 2.2.5(b), after "A *Generator*" insert "or *Integrated Resource Provider*".

**[34] Clause 2.2.5 Non-market generating units**

In clause 2.2.5(c), omit "except for any compensation that may be payable to it as a *Directed Participant* or *Affected Participant*".

**[35] Clause 2.2.5A Market bidirectional units**

After clause 2.2.5, insert new clause 2.2.5A:

**2.2.5A Market bidirectional units**

- (a) A *bidirectional unit* must be classified as a *market bidirectional unit* unless *AEMO* approves its classification as a *non-market bidirectional unit* in accordance with clause 2.2.5B.
- (b) An *Integrated Resource Provider* must sell all *sent out generation* from its *market bidirectional units* through the *spot market* and accept payments from *AEMO* for *sent out generation* from its *market bidirectional units* in accordance with the provisions of Chapter 3.
- (c) An *Integrated Resource Provider* must purchase all electricity *supplied* through the *national grid* to the *connection point* for each of its *market bidirectional units* from the *spot market* and make payments to *AEMO* for such electricity in accordance with the provisions of Chapter 3.

**[36] New clause 2.2.5B Non-market bidirectional units**

After clause 2.2.5A, insert new clause 2.2.5B:

**2.2.5B Non-market bidirectional units**

- (a) A person must not classify a *bidirectional unit* as a *non-market bidirectional unit* unless the person has obtained the approval of *AEMO* to do so.

- (b) *AEMO* must approve a request for classification of a *bidirectional unit* as a *non-market bidirectional unit* if (and only if):
  - (1) the *bidirectional unit* is classified as a *non-scheduled bidirectional unit*; and
  - (2) *AEMO* is satisfied that a *Market Customer* has classified the *connection point* for the *bidirectional unit* as one of its *market connection points* under clause 2.3.4.
- (c) An *Integrated Resource Provider* is taken to be a *Non-Market Integrated Resource Provider* only in so far as its activities relate to any *non-market bidirectional unit*.
- (d) A *Non-Market Integrated Resource Provider* is not entitled to receive payment from *AEMO* for *sent out generation*.

**[37] Clause 2.2.6 Ancillary services generating unit**

Omit clause 2.2.6 in its entirety and substitute:

**2.2.6 [Deleted]**

**[38] Clause 2.2.7 Semi-Scheduled Generator**

Omit the heading of clause 2.2.7 and substitute:

**2.2.7 Semi-scheduled generating units**

**[39] Clause 2.2.7 Semi-scheduled generating units**

Omit clause 2.2.7(b) and substitute:

- (b) A person must not classify a *generating unit* as a *semi-scheduled generating unit* or (for the purposes of paragraph (c1)) a *bidirectional unit* as a *semi-scheduled generating unit* unless the person has obtained the approval of *AEMO* to do so.

**[40] Clause 2.2.7 Semi-scheduled generating units**

After clause 2.2.7(c), insert:

- (c1) *AEMO* may, on an application being made for the purposes of paragraph (b), approve on such terms and conditions as *AEMO* considers appropriate, classification of a *bidirectional unit* that is a *coupled production unit* as a *semi-scheduled generating unit* if *AEMO* is satisfied that:
  - (1) the output of some or all *generating plant* comprised in the *bidirectional unit* is *intermittent*;

- (2) except for *auxiliary load*, the *bidirectional unit* will not consume electricity delivered from the *national grid* at the *connection point* for the *bidirectional unit*; and
  - (3) the person:
    - (i) has submitted data in accordance with schedule 3.1 and paragraph (c3);
    - (ii) has submitted an *energy conversion model*; and
    - (iii) has adequate communications and telemetry to support the issuing of *dispatch instructions* and the audit of responses.
- (c2) A person must comply with any terms and conditions imposed by *AEMO* as part of an approval under paragraph (c1).
- (c3) When a person submits data under schedule 3.1 for a *coupled production unit* that it wishes to classify as a *semi-scheduled generating unit* under paragraph (c1), the maximum *generation* must be limited to the maximum *generation* of that part of the *coupled production unit* that is *intermittent*.

**[41] Clause 2.2.7      Semi-scheduled generating units**

In clause 2.2.7(g), after "A *Generator*", insert "or *Integrated Resource Provider*".

**[42] Clause 2.2.7      Semi-scheduled generating units**

In clause 2.2.7(h), omit "co-ordinated *central dispatch* process operated by *AEMO* under the provisions of Chapter 3" and substitute "*central dispatch* process".

**[43] Clause 2.2.7      Semi-scheduled generating units**

Omit clause 2.2.7(i).

**[44] Clause 2.2.7      Semi-scheduled generating units**

Omit clause 2.2.7(j).

**[45] Clause 2.2.7      Semi-scheduled generating units**

Omit clause 2.2.7(k).

**[46] Clause 2.2.7      Semi-scheduled generating units**

Omit clause 2.2.7(l).



## **[47] New clause 2.2.8 Small generating units and small bidirectional units**

After clause 2.2.7, insert new clause 2.2.8:

### **2.2.8 Small generating units and small bidirectional units**

- (a) Subject to paragraph (b), an *Integrated Resource Provider* may classify a *small resource connection point* as one of its *market connection points*.
- (b) A person must not classify a *small resource connection point* as a *market connection point* unless the person satisfies the requirements of the *participating jurisdiction* in which the *connection point* is situated so that (subject to compliance with the *Rules*) the person is permitted to purchase or sell electricity (as applicable) in the *spot market* in relation to that *connection point*.
- (c) An *Integrated Resource Provider* is taken to be a *Small Resource Aggregator* only in so far as its activities relate to *small resource connection points* classified as its *market connection points* under paragraph (b).
- (d) A *Small Resource Aggregator* must sell all *sent out generation* from its *market connection points* through the *spot market* and accept payments from *AEMO* for the electricity in accordance with Chapter 3.
- (e) A *Small Resource Aggregator* must purchase all electricity supplied through the *national grid* to its *market connection points* from the *spot market* and make payments to *AEMO* for the electricity in accordance with Chapter 3.

## **[48] Rule 2.3 Customer**

Omit the heading of rule 2.3 and substitute:

### **2.3 Connection point and connected plant classifications**

#### **[49] Clause 2.3.1 Registration as a Customer**

Omit clause 2.3.1 in its entirety and substitute:

##### **2.3.1 [Deleted]**

#### **[50] Clause 2.3.1A Jurisdictional requirements**

After clause 2.3.1, insert a new clause 2.3.1A:

### **2.3.1A Jurisdictional requirements**

- (a) A person must not classify any *connection point* as a *market connection point* under this rule 2.3 unless the person satisfies the requirements of the *participating jurisdiction* in which the *connection point* is situated so that (subject to compliance with the *Rules*) the person is permitted to purchase or sell electricity (as applicable) in the *spot market* in relation to that *connection point*.
- (b) A person must not classify any *connection point* as a *market connection point* under clause 2.3.4(b) or (i), unless the person has any authorisations or exemptions required by the legislation of a *participating jurisdiction* or by the *NERL* in relation to the sale of electricity to end users.

### **[51] Clause 2.3.2 First-Tier Customer**

Omit clause 2.3.2 in its entirety and substitute:

#### **2.3.2 [Deleted]**

### **[52] Clause 2.3.3 Second Tier Customer**

Omit clause 2.3.3 in its entirety and substitute:

#### **2.3.3 [Deleted]**

### **[53] Clause 2.3.4 Market Customer**

Omit clause 2.3.4 in its entirety and substitute:

#### **2.3.4 Market connection point classification**

- (a) *A connection point*:
  - (1) which *connects any market generating unit to the national grid*, is taken to be a *market connection point* of the *Market Participant* which has classified the *generating unit* as a *market generating unit*;
  - (2) which *connects any market bidirectional unit to the national grid*, is taken to be a *market connection point* of the *Market Participant* which has classified the *bidirectional unit* as a *market bidirectional unit*;
  - (3) which has been classified by an *Integrated Resource Provider* under clause 2.2.8(a), is a *market connection point* of the *Integrated Resource Provider* (in its capacity as a *Small Resource Aggregator*); or
  - (4) where the *network service connected at that connection point* is a *market network service*, is taken to be a *market connection*

*point of the Market Participant that has classified the network service as a market network service.*

- (b) Subject to paragraph (c), if electricity *supplied* through the *national grid* to or from a *connection point* is purchased or sold by any person (**end user**), that *connection point* must be classified as a *market connection point* of:
  - (1) the end user (if registered as a *Customer* or an *Integrated Resource Provider*); or
  - (2) with the consent of the end user, a *Customer* or an *Integrated Resource Provider*.
- (c) Paragraph (b) does not apply to any *connection point*:
  - (1) taken to be a *market connection point* of another *Market Participant* under paragraph (a); or
  - (2) classified by a *Local Retailer* in accordance with paragraph (i).
- (d) A *Customer* is taken to be a *Market Customer* only in so far as its activities relate to any *market connection point* it has classified under paragraph (b) or (i).
- (e) An *Integrated Resource Provider* is taken to be a *Market Customer* only in so far as its activities relate to any *market connection point* it has classified under paragraph (b).
- (f) A *Market Customer* must purchase all electricity *supplied* to its *market connection points* from the *spot market* and make payments to *AEMO* for the electricity in accordance with Chapter 3.
- (g) A *Market Customer* must sell all *sent out generation* from its *market connection points* through the *spot market* and accept payments from *AEMO* for the electricity in accordance with Chapter 3.
- (h) **[Deleted]**
- (i) A *Customer* who is also a *Local Retailer* must classify any *load* at a *connection point* in its *local area* as a *market connection point* if electricity *supplied* through the *national grid* to or from that *connection point* is purchased or sold by a *franchise customer*.

#### **[54] Clause 2.3.4A Scheduled load classification**

After clause 2.3.4, insert a new clause 2.3.4A:

##### **2.3.4A Scheduled load classification**

- (a) A *Market Customer* or an *Integrated Resource Provider* may with approval of *AEMO* classify *plant* (excluding *generating plant*) *connected* at one of its *market connection points* as a *scheduled load*.

- (b) A *bidirectional unit* that is to be classified as a *scheduled generating unit* with *AEMO's* approval under clause 2.2.2(b2) must be classified as a *scheduled load* in relation to that part of the *plant* that consumes electricity.
- (c) *AEMO* must approve a request to classify *plant* (subject to paragraph (b), excluding *generating plant*) as a *scheduled load* if it is satisfied that the *Market Customer* or *Integrated Resource Provider*:
  - (1) has submitted data in accordance with schedule 3.1;
  - (2) has adequate communications and/or telemetry to support the issuing of *dispatch instructions* and the audit of responses; and
  - (3) is required by paragraph (b) to classify the *plant* as a *scheduled load* or has requested that the *plant* be so classified and has not withdrawn that request.

**[55] Clause 2.3.5 Ancillary services load**

Omit clause 2.3.5 in its entirety and substitute:

**2.3.5 [Deleted]**

**[56] Clause 2.3.6 Wholesale demand response units**

In clause 2.3.6(a), omit "the *load*" and substitute "the *qualifying load*".

**[57] Clause 2.3.6 Wholesale demand response units**

In clause 2.3.6(d), after "within 15 *business days* of the request", insert "*AEMO* may, on notice to the *Demand Response Service Provider* at any time after expiry of that period, elect to treat the application as withdrawn and".

**[58] Clause 2.3.6 Wholesale demand response units**

Omit clause 2.3.6(e) and substitute:

- (e) *AEMO* must, subject to paragraph (f), approve the classification request under paragraph (a) if *AEMO* is reasonably satisfied that:
  - (1) the request is made in respect of a *qualifying load*;
  - (2) the *qualifying load* is able to be used to provide *wholesale demand response* in accordance with the *Rules*;
  - (3) the *qualifying load* is capable of providing a quantity of *wholesale demand response* at least equal to the *maximum responsive component*;
  - (4) the *Demand Response Service Provider* has adequate communications and/or telemetry in place to support the issuing of *dispatch instructions* in respect of the *qualifying load*;

- (5) the *baseline methodology*, when applied to the *qualifying load* and using the proposed *baseline settings* and historical *metering data* for the *qualifying load*:
  - (i) produces a *baseline* that satisfies the *baseline methodology metrics*; and
  - (ii) otherwise qualifies for application to the *wholesale demand response unit* having regard to any criteria in the *wholesale demand response guidelines*;
- (6) the *Demand Response Service Provider* has submitted data in accordance with schedule 3.1; and
- (7) the *qualifying load* satisfies each other requirement in the *wholesale demand response guidelines* for classification as a *wholesale demand response unit*.

**[59] Clause 2.3.6 Wholesale demand response units**

Omit clause 2.3.6(f) and substitute:

- (f) *AEMO* must not give approval to a person under paragraph (e) in respect of a *qualifying load* that is classified as an *ancillary service unit* by a different person.

**[60] Clause 2.3.6 Wholesale demand response units**

In clause 2.3.6(g), omit "*load*" and substitute "*qualifying load*".

**[61] Clause 2.3.6 Wholesale demand response units**

Omit clause 2.3.6(i) and substitute "[Deleted]".

**[62] Clause 2.3.6 Wholesale demand response units**

Omit clause 2.3.6(k) and substitute:

- (k) A *Demand Response Service Provider* must notify *AEMO* if any of its *wholesale demand response units* ceases to be a *qualifying load* as soon as practicable and in any event no later than 10 *business days* after becoming aware that the *wholesale demand response unit* ceases to be a *qualifying load*.

**[63] Clause 2.3.6 Wholesale demand response units**

Omit clause 2.3.6(l) and substitute:

- (l) Where a *Demand Response Service Provider* gives *AEMO* a notice under paragraph (k) in respect of a *wholesale demand response unit*, the *wholesale demand response unit* ceases to be classified as a *wholesale demand response unit* from the time the notice is given.

## **[64] Clause 2.3.6 Wholesale demand response units**

Omit clause 2.3.6(m) and substitute:

- (m) In this Chapter:
  - (1) a *connection point* is a *qualifying load* if:
    - (i) the *connection point* comprises a single *connection point* or a *parent connection point* in respect of all its associated *child connection points* that are not *market connection points*;
    - (ii) if the *connection point* is a *child connection point*, it is also a *market connection point*;
    - (iii) the *connection point* is not a *small customer load*;
    - (iv) the *connection point* is not a *market connection point* for a *scheduled load*;
    - (v) the *Demand Response Service Provider* has the consent of the *retail customer* at the *connection point* to provide *wholesale demand response* by means of that *connection point*;
    - (vi) the *Demand Response Service Provider* has arrangements for the provision of *wholesale demand response* by means of that *connection point*; and
    - (vii) the *connection point* has a type 1, 2, 3, or 4 *metering installation*; and
  - (2) a *connection point* is a *small customer load* if a *retail customer* at the *connection point*, or any *connection point* associated with the *connection point* (including any *child connection point*):
    - (i) is or would be a *small customer* in relation to premises delivered electrical power at the *connection point*; and
    - (ii) the *retail customer* has not entered into an agreement with its retailer in accordance with rule 5(2)(a) of the *National Energy Retail Rules* to aggregate the premises referred to in subparagraph (2)(i) with other premises.

### **Note**

Only a business customer within the meaning of the *National Energy Retail Law* can enter into an agreement with its *retailer* in accordance with rule 5(2)(a) of the *National Energy Retail Rules*.

## **[65] Rule 2.3A Small Generation Aggregator**

Omit rule 2.3A in its entirety and substitute:

**2.3A [Deleted]**

**[66] Rule 2.3B Demand Response Service Provider**

Omit rule 2.3B in its entirety and substitute:

**2.3B [Deleted]**

**[67] Rule 2.3C [Not used]**

After rule 2.3B insert:

**2.3C [Not used]**

**[68] Rule 2.3D Ancillary Service Units and Ancillary Service Providers**

After rule 2.3C, insert new rule 2.3D:

**2.3D Ancillary Service Units and Ancillary Service Providers**

**2.3D.1 Classification of ancillary service units**

- (a) Subject to paragraph (b), if a:
  - (1) *Market Participant* in respect of *plant connected* at a *market connection point* for which it is the *financially responsible Market Participant*; or
  - (2) *Demand Response Service Provider* in respect of *plant connected* at a *market connection point*,  
  
wishes to use the *plant* to provide *market ancillary services* in accordance with Chapter 3, the *Market Participant* must apply to *AEMO* for approval to classify the relevant *plant* as an *ancillary service unit*.
- (b) *Plant* is not eligible for classification by a person as an *ancillary service unit* where:
  - (1) the *plant* is *connected* at a *connection point* that a different person has classified as a *wholesale demand response unit*;
  - (2) the *plant* is *connected* at a *market connection point* at which a different person has classified an *ancillary service unit*; or
  - (3) the person is a *Demand Response Service Provider* and the *plant* is a *scheduled load*.
- (c) An application under paragraph (a) must be in the form prescribed by *AEMO* and must:



- (1) specify the *market ancillary services* which the applicant wishes to provide using the relevant *plant*;
  - (2) identify the relevant *plant* at the *connection point* to be used by the applicant to provide *market ancillary services*; and
  - (3) demonstrate how the relevant *plant* identified in subparagraph (2) has the required capability to be used to provide *market ancillary services* in accordance with the *market ancillary service specification* and the other matters in paragraph (f).
- (d) *AEMO* must, within 5 *business days* of receiving an application under paragraph (a), advise the applicant of any further information or clarification which is required in support of its application if, in *AEMO's* reasonable opinion, the application:
- (1) is incomplete; or
  - (2) contains information upon which *AEMO* requires clarification.
- (e) If the applicant does not provide further information or clarification required pursuant to paragraph (d) to *AEMO's* satisfaction within 15 *business days* of the request, *AEMO* may, on notice to the applicant at any time after expiry of that period, elect to treat the application as withdrawn and the applicant will be taken to have withdrawn the application.
- (f) If *AEMO* is reasonably satisfied that:
- (1) the relevant *plant* is able to be used by the applicant to provide the *market ancillary services* referred to in the application in accordance with this clause 2.3D.1 and the *market ancillary service specification*;
  - (2) the applicant has adequate communication and/or telemetry to support the issuing of *dispatch instructions* and the audit of responses; and
  - (3) in the case of an application made by a *Market Customer* or *Demand Response Service Provider*, the applicant has an arrangement with the *retail customer* at the relevant *connection point* for the supply of *market ancillary services*,

*AEMO* must approve the classification of the *ancillary service unit* in respect of the particular *market ancillary services*.

- (g) If *AEMO* approves the classification of *plant* as an *ancillary service unit*, *AEMO* may impose on the relevant applicant such terms and conditions as *AEMO* considers necessary to ensure that the provisions of the *Rules* applying to *market ancillary services* can be met.

- (h) A *Market Participant* is taken to be an *Ancillary Service Provider* only in so far as its activities relate to *plant* it has classified as an *ancillary service unit*.

### **2.3D.2 Ancillary Service Providers**

- (a) An *Ancillary Service Provider* must comply with any terms and conditions imposed by *AEMO* under clause 2.3D.1(g).
- (b) An *Ancillary Service Provider* must ensure that the *market ancillary services* provided using the relevant *ancillary service unit* are provided in accordance with the *central dispatch* process and in accordance with the *market ancillary service specification*.
- (c) An *Ancillary Service Provider* with an *ancillary service unit* must only sell the *market ancillary services* produced using that *ancillary service unit* in accordance with Chapter 3.
- (d) An *Ancillary Service Provider* is not entitled to receive payment from *AEMO* for *market ancillary services* except where those *market ancillary services* are produced using an *ancillary service unit* in accordance with Chapter 3 or pursuant to a *direction* or *clause 4.8.9 instruction*.
- (e) A *Market Participant* must immediately notify *AEMO* if *plant* it has classified as an *ancillary service unit* ceases to meet the requirements for classification under clause 2.3D.1.

### **[69] Clause 2.4.1 Registration as a category of Market Participant**

Omit clause 2.4.1(a) and substitute:

- (a) A *Market Participant* is a person in any one or more of the following categories:
  - (1) *Market Generator*;
  - (2) *Integrated Resource Provider* (other than a *Non-Market Integrated Resource Provider*);
  - (3) *Market Customer*;
  - (4) *Demand Response Service Provider*;
  - (5) *Market Network Service Provider*.

### **[70] Clause 2.4.1 Registration as a category of Market Participant**

Omit clause 2.4.1(b) and substitute "[Deleted]".

**[71] Clause 2.4.2 Eligibility**

In clause 2.4.2(a), after "person wishes to participate in the *market*" insert ", taking into account the classifications intended by the applicant and notified at the time of registration".

**[72] Clause 2.4.2 Eligibility**

Omit clause 2.4.2(b) and substitute "[Deleted]".

**[73] Clause 2.4.2 Eligibility**

Omit clause 2.4.2(c) and substitute:

- (c) also be registered as a *Network Service Provider*, for registration as a *Market Network Service Provider*;

**[74] Clause 2.4.2 Eligibility**

In clause 2.4.2(d), after "obligations set out in the *Rules*" insert ", taking into account the classifications intended by the applicant and notified at the time of registration".

**[75] Clause 2.4A.2 Eligibility**

Omit clause 2.4A.2(b)(2) and substitute:

- (2) a *Generator* or *Integrated Resource Provider* who is only appointed, or is proposed to be only appointed, as *Metering Coordinator* in respect of one or more *connection points* or proposed *connection points* that *connect* a *Generator's* or *Integrated Resource Provider's* *generating unit* or *bidirectional unit* to a *distribution network* (excluding, to avoid doubt, any *small resource connection point* classified by an *Integrated Resource Provider* in its capacity as a *Small Resource Aggregator*).

**[76] Clause 2.4A.2 Eligibility**

Omit clause 2.4A.2(c) and substitute:

- (c) Subparagraph (a)(4) does not apply to a *Generator* or *Integrated Resource Provider* who is only appointed, or is proposed to be only appointed, as *Metering Coordinator* in respect of one or more *connection points* or proposed *connection points* that *connect* a *Generator's* or *Integrated Resource Provider's* *generating unit* or *bidirectional unit* to a *distribution network*.

**[77] Clause 2.5.3 Scheduled Network Service**

In clause 2.5.3(e)(2), omit "co-ordinated *central dispatch* process operated by *AEMO* under the provisions of Chapter 3" and substitute "*central dispatch* process".

**[78] Clause 2.5.3      Scheduled Network Service**

In clause 2.5.3(e)(4), omit "*dispatch offers*" and substitute "*dispatch bids*".

**[79] Rule 2.7              Intention to Commence Activities or Functions**

In rule 2.7(d), after "*Customer, Generator*" insert ", *Integrated Resource Provider*".

**[80] Clause 2.8.1      Rights and obligations**

In clause 2.8.1(a), omit "rules 2.2 to 2.7" and substitute "rules 2.1A to 2.7".

**[81] Clause 2.8.1      Rights and obligations**

In clause 2.8.1(b), omit "rules 2.2 to 2.7" and substitute "rules 2.1A to 2.7".

**[82] Clause 2.9.1      Applications for Registration**

In clause 2.9.1(c), after "within 15 *business days* of the request," insert "*AEMO* may, on notice to the applicant at any time after expiry of that period, elect to treat the application as withdrawn and".

**[83] Clause 2.9.2      Registration as a Registered Participant**

In clause 2.9.2(a)(3), after "for registration as a *Generator*", insert "or *Integrated Resource Provider*".

**[84] Clause 2.9.3      Registration as an Intermediary**

In clause 2.9.3(a), after "*Rules* as a *Generator*" insert ", *Integrated Resource Provider*".

**[85] Clause 2.9.3      Registration as an Intermediary**

In clause 2.9.3(a), omit "may apply to *AEMO* or the *AER* respectively" and substitute "may apply to *AEMO* or the *AER*, as applicable".

**[86] Clause 2.9.3      Registration as an Intermediary**

In clause 2.9.3(c), after "with respect to the relevant *generating system*", insert ", *integrated resource system*".

**[87] Clause 2.9.3      Registration as an Intermediary**

In clause 2.9.3(h), after "discrete *generating systems*", insert ", *integrated resource systems*".

**[88] Rule 2.9A              Transfer of Registration**

Omit the heading of rule 2.9A and substitute:

## **2.9A Transfer of Registration to another person**

### **[89] Clause 2.9A.2 Applications for Transfer of Registration**

In clause 2.9A.2(d), after "within 15 *business days* of the request, then", insert "*AEMO* may, on notice to the Transferor and Transferee at any time after expiry of that period, elect to treat the application as withdrawn and".

### **[90] New rule 2.9B Transfer to Integrated Resource Provider**

After clause 2.9A.3, insert a new rule 2.9B:

## **2.9B Transfer to Integrated Resource Provider**

- (a) A person registered as a *Generator* in respect of a *generating system* for which all *generating units* are at the time of application classified in accordance with this Chapter may apply to *AEMO* to change its registration category to *Integrated Resource Provider* in respect of the *generating system*.
- (b) A person registered as a *Customer* may apply to *AEMO* to change its registration category to *Integrated Resource Provider* in respect of all its *market connection points*.
- (c) An application under paragraph (a) or (b) must be submitted to *AEMO* in the form prescribed by *AEMO*.
- (d) *AEMO* must, within 5 *business days* of receiving an application under this rule, advise the applicant of any further information or clarification which is required in support of its application if, in *AEMO's* reasonable opinion, the application is incomplete or contains information upon which *AEMO* requires clarification.
- (e) If the further information or clarification required pursuant to paragraph (d) is not provided to *AEMO's* satisfaction within 15 *business days* of the request, *AEMO* may, on notice to the applicant at any time after expiry of that period, elect to treat the application as withdrawn and the applicant will be taken to have withdrawn the application.
- (f) *AEMO* must, within 15 *business days* of receiving an application under this rule (or where applicable, the further information or clarification requested by *AEMO* under this rule), determine to change the applicant's registration category if *AEMO* is reasonably satisfied that:
  - (1) where the applicant is a *Generator*, the applicant meets the eligibility requirements for registration as an *Integrated Resource Provider* in clause 2.1B.2(b); and

- (2) where the applicant is a *Customer*, the applicant will at the time of the change satisfy applicable requirements referred to in clause 2.3.1A in relation to its *market connection points*.
- (g) If *AEMO* determines that an applicant does not satisfy the requirements referred to in paragraph (f), *AEMO* must determine that the applicant is not qualified to be registered as a *Registered Participant* in the relevant category and provide reasons for that determination.
- (h) A change of registration category does not affect any rights or liabilities of a *Registered Participant* or *AEMO* arising, or in respect of any period, prior to the change taking effect.

### **[91] Clause 2.10.1 Notification of intention**

Omit clause 2.10.1(a) and substitute:

- (a) A person:
  - (1) may notify *AEMO* in writing that it wishes to cease to be registered in any category of *Registered Participant* or that it wishes to terminate any of its classifications of *generating units* or *bidirectional units* (other than a *generating unit* or *bidirectional unit* specified in subparagraph (2)), other *plant* or *network services*; and
  - (2) who is a *Scheduled Generator*, *Semi-Scheduled Generator* or *Scheduled Integrated Resource Provider* must notify *AEMO* in writing if it wishes to terminate any of its classifications of *generating units* or *bidirectional units*.

### **[92] Clause 2.10.1 Notification of intention**

Omit clause 2.10.1(c1)(1) and substitute:

- (1) must specify a date (the *closure date*) by which:
  - (i) the classification of the *generating unit* or *bidirectional unit* will be terminated; and
  - (ii) it will cease to *supply* or acquire electricity or trade directly in the *market* whether entirely or in relation to one or more *connection points*; and

### **[93] Clause 2.10.1 Notification of intention**

Omit clause 2.10.1(c2) (excluding the "Note") and substitute:

- (c2) A *Scheduled Generator*, *Semi-Scheduled Generator* or *Scheduled Integrated Resource Provider* must not specify a *closure date* for a *generating unit* or *bidirectional unit* that is earlier than 42 months

from the date of the notice given under subparagraph (a)(2), except where the relevant *Generator* or *Integrated Resource Provider* has applied for, and is granted an exemption by the *AER* under paragraph (c4).

**[94] Clause 2.10.1 Notification of intention**

Omit the first paragraph of clause 2.10.1(c3) and substitute:

(c3) A *Scheduled Generator*, *Semi-Scheduled Generator* or *Scheduled Integrated Resource Provider* giving a notice to *AEMO* under subparagraph (c1)(2) (**amended notice**):

**[95] Clause 2.10.1 Notification of intention**

In clause 2.10.1(c3)(1), omit "be a date" and insert "specify an amended *closure date*".

**[96] Clause 2.10.1 Notification of intention**

In clause 2.10.1(c3)(2), omit "be a date" and insert "specify an amended *closure date*".

**[97] Clause 2.10.1 Notification of intention**

In clause 2.10.1(c3)(2)(ii), after "the *Generator*" insert "or *Integrated Resource Provider*".

**[98] Clause 2.10.1 Notification of intention**

Omit clause 2.10.1(c4) and substitute:

(c4) The *AER* may, in accordance with guidelines issued from time to time by the *AER*, exempt any *Scheduled Generator*, *Semi-Scheduled Generator* or *Scheduled Integrated Resource Provider* from the requirement to provide the *closure date* in accordance with paragraph (c2) and (c3).

**[99] Clause 2.10.1 Notification of intention**

In clause 2.10.1(c5)(1)(i), after "by a *Generator*" insert "or *Integrated Resource Provider*".

**[100] Clause 2.10.1 Notification of intention**

In clause 2.10.1(c5)(1)(ii), after "received from *Generators*" insert "or *Integrated Resource Providers*".

**[101] Clause 2.10.1 Notification of intention**

In clause 2.10.1(d), including its subparagraphs, omit all references to "*market loads*" and substitute "*market connection points*".



**[102] Clause 2.10.1 Notification of intention**

Omit the opening paragraph of clause 2.10.1(d1) and substitute:

- (d1) *AEMO* may reject a notice from a *Small Resource Aggregator* that it wishes to terminate its classification of a *small resource connection point* as one of its *market connection points*, unless *AEMO* is satisfied that:

**[103] Clause 2.10.1 Notification of intention**

Omit clause 2.10.1(d1)(1) and substitute:

- (1) another person has classified the *small resource connection point* as one of its *market connection points*;

**[104] Clause 2.10.1 Notification of intention**

Omit clause 2.10.1(d1)(2) and substitute:

- (2) the relevant *Local Retailer* has agreed or is otherwise required by laws of the relevant *participating jurisdiction* to assume responsibility for payments with *AEMO* for electricity *supplied* to or from the *small resource connection point*; or

**[105] Clause 2.10.1 Notification of intention**

In clause 2.10.1(d1)(3), omit "at that *connection point*" and substitute "or *small bidirectional unit* at that *small resource connection point*".

**[106] Clause 2.10.1 Notification of intention**

In clause 2.10.1(e), omit "*market loads, market generating units*" and substitute "*market connection points, market generating units, market bidirectional units*".

**[107] Rule 2.12 Interpretation of References to Various Registered Participants**

Omit the heading of rule 2.12 and substitute:

**2.12 Interpretation of references to various entities**

**[108] Rule 2.12 Interpretation of references to various entities**

Omit rule 2.12(b)(1A) and substitute:

- (1A) a "*Small Resource Aggregator*" applies to a person registered as an *Integrated Resource Provider* only in so far as it is applicable to matters connected with the person's *small resource connection points* classified under clause 2.2.8(a);

**[109] Rule 2.12 Interpretation of references to various entities**

In rule 2.12(b)(1B), omit "as a *Demand Response Service Provider*" only in so far as it is applicable to matters connected with the person's *ancillary service load* or *wholesale demand response unit*" and substitute "as a *Demand Response Service Provider* only in so far as it is applicable to matters connected with the person's *ancillary service units* or *wholesale demand response units*".

**[110] Rule 2.12 Interpretation of references to various entities**

After rule 2.12(b)(2) insert:

- (2A) a "*Scheduled Integrated Resource Provider*", "*Non-Scheduled Integrated Resource Provider*" or "*Non-Market Integrated Resource Provider*" applies to a person only in so far as it is applicable to matters connected with the person's *scheduled bidirectional units*, *non-scheduled bidirectional units* or *non-market bidirectional units*, respectively;

**[111] Rule 2.12 Interpretation of references to various entities**

Omit rule 2.12(b)(3) and substitute:

- (3) a "*Customer*" applies to a person registered as a *Customer* only in so far as it is applicable to matters connected with *connection points* the person has classified (in its capacity as a *Customer*) as *market connection points* or its activities as a *RoLR*;

**[112] Rule 2.12 Interpretation of references to various entities**

After rule 2.12(b)(3) insert:

- (3A) an "*Ancillary Service Provider*" applies to a person only in so far as it is applicable to matters connected with the person's *ancillary service units*;

**[113] Rule 2.12 Interpretation of references to various entities**

Omit rule 2.12(b)(4) and substitute:

- (4) a "*Market Customer*" applies to a *Customer* or *Integrated Resource Provider* only in so far as it is applicable to matters connected with the person's *market connection points* classified under clause 2.3.4(b) or (i);

**[114] Rule 2.12 Interpretation of references to various entities**

Omit rule 2.12(b)(7)(i) and substitute:

- (i) where the person is a *Market Generator, Integrated Resource Provider, Market Customer* or *Demand Response Service Provider*, in so far as it is applicable to its *market connection points* or *plant* it has classified under this Chapter;

**[115] Rule 2.12 Interpretation of references to various entities**

In rule 2.12, omit subparagraph (b)(7)(i1) and substitute "[Deleted]".

**[116] Rule 2.12 Interpretation of references to various entities**

In rule 2.12, omit subparagraph (b)(7)(i2) and substitute "[Deleted]".

**[117] Rule 2.12 Interpretation of references to various entities**

In rule 2.12, omit subparagraph (b)(7)(ii) and substitute "[Deleted]".

**[118] Rule 2.12 Interpretation of references to various entities**

In rule 2.12, in subparagraph (b)(7)(iv), after each occasion of "*Market Generator*", insert ", *Integrated Resource Provider*".

**[119] Rule 2.12 Interpretation of references to various entities**

In rule 2.12, omit subparagraph (b)(8)(i) and substitute:

- (i) where the person is registered as a *Generator, Integrated Resource Provider, Customer* or *Demand Response Service Provider*, in so far as it is applicable to its *market connection points* or *plant* it has classified under this Chapter; and

**[120] Rule 2.12 Interpretation of references to various entities**

In rule 2.12, omit subparagraph (b)(8)(ii) and substitute "[Deleted]".

## Schedule 2      Amendment to the National Electricity Rules

(Clause 4)

### [1] Clause 3.2.2      Spot market

In clause 3.2.2(a), omit "*dispatch bids, dispatch offers and market ancillary service offers for the spot market;*" and substitute "*dispatch bids and market ancillary service bids for the spot market;*".

### [2] Clause 3.3.14      Potential value of a transaction

In clause 3.3.14, in the first paragraph, omit "or offer".

### [3] Clause 3.3.16      Limitation on entry of transactions

In clause 3.3.16(a), omit "or offer".

### [4] Clause 3.6.1      Inter-regional losses

Omit clause 3.6.1(d)(3)(ii) and substitute:

- (ii) aim to minimise the impact on *dispatch* of *scheduled resources* as compared to the *dispatch* of *scheduled resources* which would result from a fully optimised *central dispatch* process taking into account the effect of losses.

### [5] Clause 3.6.1      Inter-regional losses

Omit clause 3.6.1(d)(4) and substitute:

- (4) *Inter-regional loss factor* equations are determined using:
  - (i) forecast *load* and *generation* data; and
  - (ii) if required, modelled *load* and *generation* data,  
prepared by *AEMO* pursuant to clause 3.6.2A for the *financial year* in which the *inter-regional loss factor* equations are to apply.

### [6] Clause 3.6.2      Intra-regional losses

Omit clause 3.6.2(e)(2A) and (3) and substitute:

- (2A) *Intra-regional loss factors* must aim to minimise the impact on the *dispatch* of *scheduled resources* as compared to the *dispatch* of *scheduled resources* which would result from a fully optimised *central dispatch* process taking into account the effect of losses.

- (3) An *intra-regional loss factor* is to be determined using forecast *load* and *generation* data prepared by *AEMO* pursuant to clause 3.6.2A for the *financial year* in which the *intra-regional loss factor* is to apply.

**[7] Clause 3.6.2 Intra-regional losses**

In clause 3.6.2(e)(4), omit "*load* and *generation*".

**[8] Clause 3.6.2A Load and generation data used to determine inter-regional loss factor equations and intra-regional loss factors**

In clause 3.6.2A(c), omit "forecast data for any new *loads*" and substitute "*load* forecast data for any new *connection points*".

**[9] Clause 3.6.2A Load and generation data used to determine inter-regional loss factor equations and intra-regional loss factors**

In clause 3.6.2A(d)(1)(ii), omit "projected *load* growth" and substitute "projected changes in *load*".

**[10] Clause 3.6.3 Distribution losses**

In clause 3.6.3(b)(2)(i)(A), omit each occasion of "an *embedded generating unit*" and substitute "a *distribution connected unit*".

**[11] Clause 3.6.3 Distribution losses**

Omit clause 3.6.3(b)(2)(i)(B) and substitute:

- (B) a *connection point* for an end user with actual or forecast annual consumption of electricity of more than 40GWh or actual or forecast *maximum demand* of more than 10MW, based on the most recent data available for a consecutive 12 month period at the time of determining the *distribution loss factor*. Where relevant data is not available for a consecutive 12 month period as a *distribution network connection point* is newly established or has been modified, a *Network Service Provider* may determine whether an end user has forecast annual consumption of electricity of more than 40GWh or forecast *maximum demand* of more than 10MW, based on its best projection of *load* in the *financial year* in which the *distribution loss factor* is to apply, taking into account the terms of the relevant *connection agreement*;

**[12] Clause 3.6.3 Distribution losses**

Omit clause 3.6.3(b1), excluding the "Note" and substitute:

- (b1) Where a *Generator, Integrated Resource Provider or Small Resource Aggregator* meets the reasonable cost of the *Distribution Network Service Provider* in performing the necessary calculation in respect of a *distribution connected unit* of actual or forecast annual production of electricity of up to 40GWh or *rated active power* of up to 10MW, the *Distribution Network Service Provider* must calculate a site specific *distribution loss factor* that, notwithstanding any other provision of the *Rules* to the contrary, for the purposes of the *Rules* is to apply in respect of that *distribution connected unit* as though the *distribution connected unit* were a unit of more than 10MW *rated active power* or more than 40GWh annual production.

**[13] Clause 3.6.3 Distribution losses**

In clause 3.6.3(h)(5), omit "projected *load* and / or *generation growth*" and substitute "projected changes in *load* and/or *generation*".

**[14] Clause 3.6.4 Network constraints**

In clause 3.6.4(a), omit ", *generation, scheduled network services or loads*" and substitute "or *scheduled resources*".

**[15] Clause 3.6.4 Network constraints**

In clause 3.6.4(a1), omit "*dispatch of generation, regulated interconnectors, other scheduled network services or loads*" and substitute "*dispatch of regulated interconnectors or scheduled resources*".

**[16] Clause 3.6.4 Network constraints**

In clause 3.6.4(b), omit "the *dispatch of generation, scheduled network services or loads*" and substitute "the *dispatch of scheduled resources*".

**[17] Clause 3.6.5 Settlements residue due to network losses and constraints**

In clause 3.6.5(a)(4), omit "arises then" and substitute "arises".

**[18] Clause 3.6.5 Settlements residue due to network losses and constraints**

In clause 3.6.5(a)(4A), omit "arises then" and substitute "arises".

**[19] Clause 3.7.1 Administration of PASA**

In clause 3.7.1(c)(1), after "*Scheduled Generators*," insert "*Scheduled Integrated Resource Providers*,".

**[20] Clause 3.7.1 Administration of PASA**

In clause 3.7.1(c)(1)(i), omit "*generation, transmission and market network service*" and substitute "*plant*".

**[21] Clause 3.7.2 Medium term PASA**

In clause 3.7.2(c)(1)(i), omit "*except for pumped storage loads*" and substitute "*except for plant classified as scheduled load in accordance with clause 2.3.4A(b) and load of scheduled bidirectional units*".

**[22] Clause 3.7.2 Medium term PASA**

In clause 3.7.2(c)(1)(ii), omit "*in the forecast as scheduled load by load bidders; and*" and substitute "*in the forecast as the dispatched load of scheduled bidirectional units or scheduled load; and*".

**[23] Clause 3.7.2 Medium term PASA**

In clause 3.7.2(c)(2), after "*the capabilities of generating units*", insert "*or bidirectional units*".

**[24] Clause 3.7.2 Medium term PASA**

In clause 3.7.2(d), omit "*Scheduled Generator or*".

**[25] Clause 3.7.2 Medium term PASA**

In clause 3.7.2(d), omit "*Scheduled Generator's or*".

**[26] Clause 3.7.2 Medium term PASA**

In clause 3.7.2(d)(1), after "*scheduled generating unit*," insert "*scheduled bidirectional unit*".

**[27] Clause 3.7.2 Medium term PASA**

In clause 3.7.2(d)(1)(i), after "*scheduled generating unit*", insert "*and scheduled bidirectional unit*".

**[28] Clause 3.7.2 Medium term PASA**

In clause 3.7.2(d)(2), after "*each scheduled generating unit*", insert "*, scheduled bidirectional unit*".



**[29] Clause 3.7.2 Medium term PASA**

In clause 3.7.2(f)(1), omit "*scheduled load*" and substitute "*scheduled loads and the load of scheduled bidirectional units*".

**[30] Clause 3.7.2 Medium term PASA**

In clause 3.7.2(f)(2), after "*non-scheduled generating systems*", insert "*and non-scheduled integrated resource systems*".

**[31] Clause 3.7.2 Medium term PASA**

Omit clause 3.7.2(f)(5) and substitute:

- (5) for a 36 month period, aggregate *PASA availability* of *generating units* and *bidirectional units* to produce electricity for each *region* and *PASA availability* of each *scheduled generating unit* and *scheduled bidirectional unit*;

**[32] Clause 3.7.2 Medium term PASA**

In clause 3.7.2(f)(5A)(i), omit "*the capacity of scheduled generating units*" and substitute "*the generation capacity of scheduled generating units and scheduled bidirectional units*".

**[33] Clause 3.7.2 Medium term PASA**

In clause 3.7.2(f)(5B), omit "*aggregate capacity*" and substitute "*aggregate electricity production capacity*".

**[34] Clause 3.7.2 Medium term PASA**

In clause 3.7.2(f)(5B), after "*scheduled generating units*", insert "*or scheduled bidirectional units*".

**[35] Clause 3.7.2 Medium term PASA**

In clause 3.7.2(f)(5C), omit "*minimum aggregate scheduled generating unit PASA availability*" and substitute "*minimum aggregate PASA availability of scheduled generating units and scheduled bidirectional units*".

**[36] Clause 3.7.2 Medium term PASA**

In clause 3.7.2(f)(5C), after "*Scheduled Generator*", insert "*and Scheduled Integrated Resource Provider*".

**[37] Clause 3.7.2 Medium term PASA**

In clause 3.7.2(f)(6)(v), omit "*generation or load*" and substitute "*scheduled resources*".

**[38] Clause 3.7.3 Short term PASA**

Omit clause 3.7.3(d)(1)(ii) and substitute:

- (ii) all *scheduled load* and other load (including *wholesale demand response units*) except for *plant* classified as *scheduled load* in accordance with clause 2.3.4A(b) and *load of scheduled bidirectional units*,

**[39] Clause 3.7.3 Short term PASA**

In clause 3.7.3(e), omit "*Scheduled Generator* and".

**[40] Clause 3.7.3 Short term PASA**

In clause 3.7.3(e), omit "*Scheduled Generator's* or".

**[41] Clause 3.7.3 Short term PASA**

In clause 3.7.3(e)(1), after "*scheduled generating unit*," insert "*scheduled bidirectional unit*".

**[42] Clause 3.7.3 Short term PASA**

In clause 3.7.3(e)(2), after "*scheduled generating unit*," insert "*scheduled bidirectional unit*".

**[43] Clause 3.7.3 Short term PASA**

In clause 3.7.3(e)(4), after "*scheduled generating units*" insert ", *energy constrained scheduled bidirectional units*".

**[44] Clause 3.7.3 Short term PASA**

In clause 3.7.3(h)(4), omit "*aggregate generating unit availability*" and substitute "*aggregate availability of generating units and bidirectional units*".

**[45] Clause 3.7.3 Short term PASA**

In clause 3.7.3(h)(4AA), omit "*aggregate capacity*" and substitute "*aggregate electricity production capacity*".

**[46] Clause 3.7.3 Short term PASA**

In clause 3.7.3(h)(4AA)(i), after "*scheduled generating units*", insert "*and scheduled bidirectional units to produce electricity*".

**[47] Clause 3.7.3 Short term PASA**

In clause 3.7.3(h)(4AA)(i), omit "AEMO" and substitute "*AEMO*".

**[48] Clause 3.7.3          Short term PASA**

In clause 3.7.3(h)(4A), omit "aggregate *generating unit PASA availability*" and substitute "aggregate *PASA availability of generating units and bidirectional units to produce electricity*".

**[49] Clause 3.7.3          Short term PASA**

In clause 3.7.3(h)(4B), after "*non-scheduled generating systems*", insert "and *non-scheduled integrated resource systems*".

**[50] Clause 3.7.3          Short term PASA**

In clause 3.7.3(h)(5)(v), omit "the *dispatch of generation or load*" and substitute "*dispatch*".

**[51] Rule 3.7B              Unconstrained intermittent generation forecast**

In rule 3.7B(c)(1), omit "*bid and offer validation data*" and substitute "*bid validation data*".

**[52] Rule 3.7B              Unconstrained intermittent generation forecast**

In rule 3.7B(c)(6), omit "the *generation*" and substitute "*supply*".

**[53] Rule 3.7C              Energy Adequacy Assessment Projection**

In rule 3.7C(b)(6)(C), after "one *scheduled generating unit*", insert "or *scheduled bidirectional unit*".

**[54] Rule 3.7C              Energy Adequacy Assessment Projection**

In rule 3.7C(b)(6)(C), omit "the relevant *generating units*" and substitute "the relevant *scheduled generating units or scheduled bidirectional units*".

**[55] Rule 3.7C              Energy Adequacy Assessment Projection**

In rule 3.7C(e), after "a *Scheduled Generator*", insert "or *Scheduled Integrated Resource Provider*".

**[56] Rule 3.7C              Energy Adequacy Assessment Projection**

In rule 3.7C(f), after "the *Scheduled Generator*", insert "or *Scheduled Integrated Resource Provider*".

**[57] Rule 3.7C Energy Adequacy Assessment Projection**

In rule 3.7C(g), after "A *Scheduled Generator*", insert "or *Scheduled Integrated Resource Provider*".

**[58] Rule 3.7C Energy Adequacy Assessment Projection**

In rule 3.7C(g), omit "to generate electricity" and substitute "or *scheduled bidirectional units* to produce electricity".

**[59] Rule 3.7C Energy Adequacy Assessment Projection**

In rule 3.7C(g), omit "*generating unit* sufficient for *AEMO*" and substitute "*scheduled generating unit* or *scheduled bidirectional unit* sufficient for *AEMO*".

**[60] Rule 3.7C Energy Adequacy Assessment Projection**

In rule 3.7C(i), after each occasion of "*Scheduled Generator*", insert "or *Scheduled Integrated Resource Provider*".

**[61] Rule 3.7C Energy Adequacy Assessment Projection**

In rule 3.7C(i), after "any of its *scheduled generating units*", insert "or *scheduled bidirectional units*".

**[62] Rule 3.7C Energy Adequacy Assessment Projection**

In rule 3.7C(k)(3), after "a *Scheduled Generator*", insert "or *Scheduled Integrated Resource Provider*".

**[63] Rule 3.7C Energy Adequacy Assessment Projection**

In rule 3.7C(k)(4), after "a *Scheduled Generator*", insert "or *Scheduled Integrated Resource Provider*".

**[64] Rule 3.7C Energy Adequacy Assessment Projection**

In rule 3.7C(k)(6), after "a collection of *scheduled generating units*", insert "or *scheduled bidirectional units*".

**[65] Rule 3.7C Energy Adequacy Assessment Projection**

In rule 3.7C(k)(7), after "each *Scheduled Generator*", insert "or *Scheduled Integrated Resource Provider*".

**[66] Rule 3.7C Energy Adequacy Assessment Projection**

In rule 3.7C(k)(9), after "a *Scheduled Generator*", insert "or *Scheduled Integrated Resource Provider*".

**[67] Rule 3.7C Energy Adequacy Assessment Projection**

In rule 3.7C(1)(3), omit "generation" and substitute "electricity production".

**[68] Rule 3.7C Energy Adequacy Assessment Projection**

Omit the group title of rule 3.7C(r) and substitute:

**Provision of information to Scheduled Generators and Scheduled Integrated Resource Providers**

**[69] Rule 3.7C Energy Adequacy Assessment Projection**

Omit rule 3.7C(r) and substitute:

- (r) *AEMO must provide to each Scheduled Generator and Scheduled Integrated Resource Provider, based on the relevant GELF, an estimate of the total energy production of its scheduled generating units or scheduled bidirectional units for the period of the EAAP.*

**[70] Rule 3.7D Demand side participation information**

In rule 3.7D(a), omit the definition "**unscheduled generation**" and substitute:

**unscheduled generation** means *generation from the following plant connected to a transmission system or distribution system:*

- (1) *a generating system which is not a scheduled generating system or semi-scheduled generating system; and*
- (2) *an integrated resource system which is not a scheduled integrated resource system.*

**[71] Rule 3.7E Register of DER information**

In rule 3.7E(g)(1), after "size of *small generating units*", insert "or *small bidirectional units*".

**[72] Rule 3.7F Generation information page**

After rule 3.7F(b)(1), insert:

- (1a) *a list of all scheduled bidirectional units and non-scheduled bidirectional units, including information on their respective capabilities and whether the bidirectional units are in service;*

**[73] Rule 3.7F Generation information page**

In rule 3.7F(b)(2), after "a list of *generating units*", insert "and *bidirectional units*".

**[74] Clause 3.8.1 Central Dispatch**

In clause 3.8.1(a), omit "*scheduled generating units, semi-scheduled generating units, wholesale demand response units, scheduled loads, scheduled network services*" and substitute "*scheduled resources*".

**[75] Clause 3.8.1 Central Dispatch**

In clause 3.8.1(a), omit "*dispatch offers* and".

**[76] Clause 3.8.1 Central Dispatch**

In clause 3.8.1(b), omit the opening paragraph and substitute:

- (b) The *central dispatch* process should aim to maximise the value of *spot market* trading i.e. to maximise the value of electricity consumption based on *dispatch bids* less the combined cost of electricity production, *wholesale demand response, market network services* and *market ancillary services* based on *dispatch bids* and *market ancillary service bids* subject to:

**[77] Clause 3.8.1 Central Dispatch**

Omit clause 3.8.1(b)(1) and substitute:

- (1) *dispatch bids* and *market ancillary service bids*;

**[78] Clause 3.8.1 Central Dispatch**

In clause 3.8.1(b)(7), omit "and *dispatch offer*".

**[79] Clause 3.8.1 Central Dispatch**

In clause 3.8.1(b)(10), omit "and *dispatch offer*".

**[80] Clause 3.8.1 Central Dispatch**

In clause 3.8.1(e), omit "*scheduled generating unit, semi-scheduled generating unit, wholesale demand response unit, scheduled network service or scheduled load*" and substitute "*scheduled resource*".

**[81] Clause 3.8.1 Central Dispatch**

In clause 3.8.1(e1), omit "*ancillary service generating unit or ancillary service load*" and substitute "*ancillary service unit*".

**[82] Clause 3.8.2 Participation in central dispatch**

In clause 3.8.2(a), after "A *Generator*", insert "or *Integrated Resource Provider*".

**[83] Clause 3.8.2 Participation in central dispatch**

In clause 3.8.2(a), omit "*generation dispatch offers*" and substitute "*dispatch bids*".

**[84] Clause 3.8.2 Participation in central dispatch**

In clause 3.8.2(a), omit "or *semi-scheduled generating units*" and substitute ", *semi-scheduled generating units* or *scheduled bidirectional units*".

**[85] Clause 3.8.2 Participation in central dispatch**

In clause 3.8.2(b), omit "*Generation dispatch offers*" and substitute "*Dispatch bids*".

**[86] Clause 3.8.2 Participation in central dispatch**

In clause 3.8.2(b1), omit "*network dispatch offers*" and substitute "*dispatch bids*".

**[87] Clause 3.8.2 Participation in central dispatch**

In clause 3.8.2(c1), omit "*Market ancillary service offers*" and substitute "*Market ancillary service bids*".

**[88] Clause 3.8.2 Participation in central dispatch**

In clause 3.8.2(d), omit "*market ancillary service offers*" and substitute "*market ancillary service bids*".

**[89] Clause 3.8.3 Bid and offer aggregation guidelines**

Omit the heading of clause 3.8.3 and substitute:

**3.8.3 Central dispatch aggregation guidelines**

**[90] Clause 3.8.3 Central dispatch aggregation guidelines**

Omit clause 3.8.3(a) and substitute:

- (a) *Market Participants* who wish to aggregate any of their *generating units, bidirectional units, scheduled network services* or *scheduled loads* for the purpose of *central dispatch* must apply to *AEMO* to do so.

**[91] Clause 3.8.3 Central dispatch aggregation guidelines**

In clause 3.8.3(a1), omit "*Market Customers* or *Demand Response Service Providers* (as applicable)" and substitute "*Market Participants*".

**[92] Clause 3.8.3 Central dispatch aggregation guidelines**

In clause 3.8.3(a1), omit "*loads*" and substitute "*ancillary service units*".



**[93] Clause 3.8.3 Central dispatch aggregation guidelines**

In clause 3.8.3(a1), omit "*ancillary service load*" and substitute "*ancillary service unit*".

**[94] Clause 3.8.3 Central dispatch aggregation guidelines**

In clause 3.8.3(b)(1), omit "or *loads*" and substitute ", *bidirectional units* or *scheduled loads*".

**[95] Clause 3.8.3 Central dispatch aggregation guidelines**

In clause 3.8.3(b)(1)(i), omit "and".

**[96] Clause 3.8.3 Central dispatch aggregation guidelines**

Omit clause 3.8.3(b)(1)(ii) and substitute:

- (ii) operated by a single *Market Participant*; and

**[97] Clause 3.8.3 Central dispatch aggregation guidelines**

After clause 3.8.3(b)(1)(ii), insert:

- (iii) the same technology type and classification and (where relevant) have similar *energy conversion models*;

**[98] Clause 3.8.3 Central dispatch aggregation guidelines**

In clause 3.8.3(b)(2), omit "*Generator* or".

**[99] Clause 3.8.3 Central dispatch aggregation guidelines**

Omit clause 3.8.3(b1)(1) and substitute:

- (1) aggregated *ancillary service units* must be *connected* within a single *region* and be operated by a single person (whether or not in the same *Market Participant* capacity);

**[100] Clause 3.8.3 Central dispatch aggregation guidelines**

In clause 3.8.3(b1)(3), omit "clause 2.3.5(e)(1)" and substitute "clause 2.3D.1(f)(1)".

**[101] Clause 3.8.3 Central dispatch aggregation guidelines**

In clause 3.8.3(c), omit "*Scheduled Generator, Semi-Scheduled Generator* or".

**[102] Clause 3.8.3 Central dispatch aggregation guidelines**

In clause 3.8.3(d), after "a *generating unit*," insert "*scheduled bidirectional unit*".

**[103] Clause 3.8.3 Central dispatch aggregation guidelines**

In clause 3.8.3(d), after "aggregated *generating units*," insert "aggregated *bidirectional units*,".

**[104] Clause 3.8.3 Central dispatch aggregation guidelines**

In clause 3.8.3(f), omit "*Scheduled Generators* and".

**[105] Clause 3.8.3 Central dispatch aggregation guidelines**

In clause 3.8.3(f), after "individual *scheduled generating unit*," insert "*scheduled bidirectional unit*,".

**[106] Clause 3.8.3 Central dispatch aggregation guidelines**

In clause 3.8.3(g), omit "*Scheduled Generator, Semi Scheduled Generator* or".

**[107] Clause 3.8.3 Central dispatch aggregation guidelines**

Omit clause 3.8.3(h) and substitute:

- (h) *AEMO* must maintain a database of aggregated *scheduled resources* and aggregated *ancillary service units* and their components.

**[108] Clause 3.8.3A Ramp rates**

In clause 3.8.3A(a), omit the opening paragraph and substitute:

- (a) This clause 3.8.3A applies to a *Registered Participant* who is required to provide *ramp rates* to *AEMO* for its *scheduled resource* in accordance with the following clauses:

**[109] Clause 3.8.3A Ramp rates**

In clause 3.8.3(a)(2), omit "offers for dispatch" and substitute "*dispatch bids*".

**[110] Clause 3.8.3A Ramp rates**

In clause 3.8.3A(b), omit "*Scheduled Generator, Semi Scheduled Generator* or".

**[111] Clause 3.8.3A Ramp rates**

In clause 3.8.3A(b), after "for each *generating unit*," insert "*scheduled bidirectional unit* (in respect of *generation* and *consumption*),".

**[112] Clause 3.8.3A Ramp rates**

In clause 3.8.3A(b)(1), after "at least" insert "the *minimum ramp rate* for the *scheduled resource*, determined as follows".

**[113] Clause 3.8.3A Ramp rates**

In clause 3.8.3A(b)(1)(i), omit "*scheduled network service* or *scheduled load*" and substitute "*scheduled resource*".

**[114] Clause 3.8.3A Ramp rates**

In clause 3.8.3A(b)(1)(i), omit "3MW/minute; or" and substitute "the *minimum ramp rate* is equal to the applicable *minimum ramp rate requirement*; or".

**[115] Clause 3.8.3A Ramp rates**

Omit clause 3.8.3A(b)(1)(ii) and substitute:

- (ii) in the case of a *scheduled network service* that is aggregated in accordance with clause 3.8.3, the *minimum ramp rate* is the amount equal to the product of the *minimum ramp rate requirement* and the number of individual *scheduled network services* (and for the avoidance of doubt clause 3.8.3 does not apply to this subparagraph (ii)); or

**[116] Clause 3.8.3A Ramp rates**

Omit clause 3.8.3A(b)(1)(iii) and substitute "[**deleted**]".

**[117] Clause 3.8.3A Ramp rates**

Omit clause 3.8.3A(b)(1)(iv) and substitute:

- (iv) in the case of a *scheduled resource* that is aggregated in accordance with clause 3.8.3, the *minimum ramp rate* is equal to the sum of the *minimum ramp rate requirement* for each individual *scheduled resource* (and for the avoidance of doubt clause 3.8.3 does not apply to this subparagraph (iv)); and

**[118] Clause 3.8.3A Ramp rates**

Omit clause 3.8.3A(c) and substitute:

- (c) A *Market Participant* to which this clause 3.8.3A applies may provide a *ramp rate* to AEMO for its *scheduled resource* that is less than the *minimum ramp rate* if the *ramp rate* is affected by an event or other occurrence that:
  - (1) physically prevents the relevant *generating unit, scheduled bidirectional unit, scheduled load* or *scheduled network service* from attaining a *ramp rate* of at least the *minimum ramp rate*;  
or

- (2) makes it unsafe for the relevant *generating unit, scheduled bidirectional unit, scheduled load or scheduled network service* to operate at a *ramp rate* of at least the *minimum ramp rate*,  
for the period of time in which the *ramp rate* is so affected by that event or other occurrence.

**[119] Clause 3.8.3A Ramp rates**

In clause 3.8.3A(d), omit "*Scheduled Generator, Semi-Scheduled Generator* or".

**[120] Clause 3.8.3A Ramp rates**

In clause 3.8.3A(d), omit "that specified in clause 3.8.3A(b)(1)" and substitute "the *minimum ramp rate*".

**[121] Clause 3.8.3A Ramp rates**

In clause 3.8.3A(d), after "the relevant *generating unit*", insert "*scheduled bidirectional unit*".

**[122] Clause 3.8.3A Ramp rates**

Omit clause 3.8.3A(e) and substitute:

- (e) If a *Market Participant* to which this clause applies provides a *ramp rate* that is less than the *minimum ramp rate*, it must simultaneously provide *AEMO* with a brief, verifiable and specific reason why the *ramp rate* is below the *minimum ramp rate*.

**[123] Clause 3.8.3A Ramp rates**

In clause 3.8.3A(f), omit "*Scheduled Generator, Semi-Scheduled Generator* or".

**[124] Clause 3.8.3A Ramp rates**

In clause 3.8.3A(h), omit "If a *Scheduled Generator, Semi-Scheduled Generator* or *Market Participant* to which this clause 3.8.3A applies" and substitute "If a *Market Participant* to which this clause applies".

**[125] Clause 3.8.3A Ramp rates**

In clause 3.8.3A(h), omit all references to "that specified in clause 3.8.3A(b)(1)" and substitute "the *minimum ramp rate*".

**[126] Clause 3.8.3A Ramp rates**

In clause 3.8.3A(i), omit "*Scheduled Generator, Semi-Scheduled Generator* or".

**[127] Clause 3.8.3A Ramp rates**

In clause 3.8.3A(i)(1), omit "that specified in clause 3.8.3A(b)(1)" and substitute "the *minimum ramp rate*".

**[128] Clause 3.8.3A Ramp rates**

In clause 3.8.3A(j), omit "*Scheduled Generator, Semi-Scheduled Generator* or".

**[129] Clause 3.8.3A Ramp rates**

In clause 3.8.3A(j), after "for the relevant *generating unit*", insert "*scheduled bidirectional unit*".

**[130] Clause 3.8.4 Notification of scheduled capacity**

In clause 3.8.4, omit the opening paragraph and substitute:

*A Market Participant* must inform *AEMO* of the *available capacity* of each of its *scheduled resources* (other than its *semi-scheduled generating units*) as follows in accordance with the *timetable*:

**[131] Clause 3.8.4 Notification of scheduled capacity**

Omit clause 3.8.4(a), excluding the "Note", and substitute:

(a) *a Market Participant* must notify *AEMO* of the *available capacity* of each of its *scheduled resources* for each *trading interval* of the *trading day*;

**[132] Clause 3.8.4 Notification of scheduled capacity**

In clause 3.8.4(c), omit "*Scheduled Generators*" and substitute "*scheduled generating units* and *scheduled bidirectional units*".

**[133] Clause 3.8.4 Notification of scheduled capacity**

In clause 3.8.4(c)(1), omit "a MW capacity profile" and substitute "for a *scheduled generating unit*, a MW capacity profile".

**[134] Clause 3.8.4 Notification of scheduled capacity**

After clause 3.8.4(c)(1), insert a new clause 3.8.4(c)(1A) as follows:

(1A) for a *bidirectional unit*, for each of *generation* and *consumption*, a MW capacity profile that specifies the MW available for each of the 288 *trading intervals* in the *trading day*;

**[135] Clause 3.8.4 Notification of scheduled capacity**

In clause 3.8.4(c)(2), after "*decommitment times*", insert "for *scheduled generating units*".

**[136] Clause 3.8.4 Notification of scheduled capacity**

In clause 3.8.4(c)(3), omit "*energy constrained generating units; and*" and substitute "*energy constrained scheduled generating units and energy constrained scheduled bidirectional units;*".

**[137] Clause 3.8.4 Notification of scheduled capacity**

Omit clause 3.8.4(c)(4) and substitute:

- (4) for a *scheduled generating unit*, an *up ramp rate* and a *down ramp rate*; and

**[138] Clause 3.8.4 Notification of scheduled capacity**

After clause 3.8.4(c)(4), insert a new clause 3.8.4(c)(5) as follows:

- (5) for a *scheduled bidirectional unit*, an *up ramp rate* and a *down ramp rate* for *generation* from the *bidirectional unit* and an *up ramp rate* and a *down ramp rate* for *consumption* by the *bidirectional unit*;

**[139] Clause 3.8.5 Submission timing**

In clause 3.8.5(a), omit "*or dispatch offer or market ancillary service offer*" and substitute "*or market ancillary service bid*".

**[140] Clause 3.8.5 Submission timing**

Omit clause 3.8.5(b) and substitute:

- (b) Subject to clause 3.8.22, changes to the MW quantities in a *dispatch bid* may be made after the relevant deadline in the *timetable*.

**[141] Clause 3.8.5 Submission timing**

In clause 3.8.5(c), omit "*, dispatch offers and market ancillary service offers*" and substitute "*and market ancillary service bids*".

**[142] Clause 3.8.6 Generating unit offers for dispatch**

Omit the title of clause 3.8.6 and substitute:

**3.8.6 Dispatch bids - generating units and bidirectional units**

**[143] Clause 3.8.6 Dispatch bids - generating units and bidirectional units**

In clause 3.8.6, before paragraph (a), insert:

- (a0) *A Scheduled Generator, Semi-Scheduled Generator and Scheduled Integrated Resource Provider* must comply with the applicable requirements of this clause 3.8.6 when submitting a *dispatch bid*.

**[144] Clause 3.8.6 Dispatch bids - generating units and bidirectional units**

In clause 3.8.6, before paragraph (a), omit "Scheduled Generator" and substitute:

**Scheduled generating units**

**[145] Clause 3.8.6 Dispatch bids - generating units and bidirectional units**

In clause 3.8.6(a), omit "*Scheduled Generator's dispatch offer*" and substitute "*dispatch bid for a scheduled generating unit*".

**[146] Clause 3.8.6 Dispatch bids - generating units and bidirectional units**

In clause 3.8.6(a)(2)(ii), omit "*dispatch offer*" and substitute "*dispatch bid*".

**[147] Clause 3.8.6 Dispatch bids - generating units and bidirectional units**

In clause 3.8.6(a)(3), omit "offer" and substitute "*dispatch bid*".

**[148] Clause 3.8.6 Dispatch bids - generating units and bidirectional units**

In clause 3.8.6(a)(4), omit "*dispatch offer*" and substitute "*dispatch bid*".

**[149] Clause 3.8.6 Dispatch bids - generating units and bidirectional units**

In clause 3.8.6(b), omit "*dispatch offer may*" and substitute "*dispatch bid must*".

**[150] Clause 3.8.6 Dispatch bids - generating units and bidirectional units**

In clause 3.8.6(c), omit "*A Scheduled Generator's loading prices offered*" and substitute "*The loading price for a scheduled generating unit*".

**[151] Clause 3.8.6 Dispatch bids - generating units and bidirectional units**

In clause 3.8.6(c), omit "multiplied by" and substitute "and"



**[152] Clause 3.8.6 Dispatch bids - generating units and bidirectional units**

In clause 3.8.6(c), omit second use of "*Scheduled Generator's*".

**[153] Clause 3.8.6 Dispatch bids - generating units and bidirectional units**

In clause 3.8.6(d), omit "of a *Scheduled Generator*".

**[154] Clause 3.8.6 Dispatch bids - generating units and bidirectional units**

In clause 3.8.6(e), omit "A *Scheduled Generator's off-loading prices*" and substitute "*The off-loading prices for a scheduled generating unit*".

**[155] Clause 3.8.6 Dispatch bids - generating units and bidirectional units**

In clause 3.8.6(e), omit "multiplied by" and substitute "and".

**[156] Clause 3.8.6 Dispatch bids - generating units and bidirectional units**

In clause 3.8.6(e), omit second use of "*Scheduled Generator's*".

**[157] Clause 3.8.6 Dispatch bids - generating units and bidirectional units**

In clause 3.8.6(f), omit "of a *Scheduled Generator*".

**[158] Clause 3.8.6 Dispatch bids - generating units and bidirectional units**

In clause 3.8.6(f), omit all references to "*generating unit's*" and substitute "*scheduled generating unit's*".

**[159] Clause 3.8.6 Dispatch bids - generating units and bidirectional units**

Before paragraph (g) in clause 3.8.6, omit "**Semi-Scheduled Generator**" and substitute:

**Semi-scheduled generating units**

**[160] Clause 3.8.6 Dispatch bids - generating units and bidirectional units**

Omit clause 3.8.6(g) and substitute:

- (g) A *dispatch bid* for a *semi-scheduled generating unit* may contain up to 10 *price bands* and must:
- (1) specify for each of the 288 *trading intervals* in the *trading day*:
    - (i) an incremental MW amount for each *price band* specified in the *dispatch bid*; and
    - (ii) an up *ramp rate* and a down *ramp rate*; and
  - (2) specify a price for each *price band* specified in the *dispatch bid*, in dollars and whole cents per MWh, and this price is to apply to the *price band* throughout the *trading day*.

**Scheduled bidirectional units**

- (g1) A *dispatch bid* for a *scheduled bidirectional unit* may contain up to 10 *price bands* for production from the *bidirectional unit* and up to 10 *price bands* for consumption by the *bidirectional unit* and must:
- (1) specify for each of the 288 *trading intervals* in the *trading day*:
    - (i) an incremental MW amount for each *price band* specified in the *dispatch bid*; and
    - (ii) an up *ramp rate* and a down *ramp rate* for generation and an up *ramp rate* and a down *ramp rate* for consumption; and
  - (2) specify a price for each *price band* specified in the *dispatch bid*, in dollars and whole cents per MWh, and this price is to apply to the *price band* throughout the *trading day*;
- (g2) A *Scheduled Integrated Resource Provider's dispatch bid* must specify the daily *energy* available for *energy constrained scheduled bidirectional units*.

**[161] Clause 3.8.6 Dispatch bids - generating units and bidirectional units**

In clause 3.8.6, above paragraph (h), omit the subheading "**Semi-Scheduled and Scheduled Generators**" and substitute:

**Scheduled and semi-scheduled generating units and scheduled bidirectional units**

**[162] Clause 3.8.6 Dispatch bids - generating units and bidirectional units**

Omit the opening paragraph of clause 3.8.6(h) and substitute:

- (h) A *dispatch bid* for a *scheduled generating unit*, *semi-scheduled generating unit* or *scheduled bidirectional unit* must meet the following requirements:

**[163] Clause 3.8.6 Dispatch bids - generating units and bidirectional units**

In clause 3.8.6(h)(1), omit "*semi-scheduled generating unit* or *scheduled generating unit*" and substitute "*scheduled generating unit*, *semi-scheduled generating unit* or *scheduled bidirectional unit*".

**[164] Clause 3.8.6 Dispatch bids - generating units and bidirectional units**

In clause 3.8.6(h)(1), after "the relevant *Generator's*", insert "or *Scheduled Integrated Resource Provider's*".

**[165] Clause 3.8.6 Dispatch bids - generating units and bidirectional units**

In clause 3.8.6(h)(2), omit "*dispatch offer*" and substitute "*dispatch bid*".

**[166] Clause 3.8.6 Dispatch bids - generating units and bidirectional units**

In clause 3.8.6(h)(3), omit "*semi-scheduled generating unit* or the *scheduled generating unit*" and substitute "*scheduled generating unit*, *semi-scheduled generating unit* or *scheduled bidirectional unit*".

**[167] Clause 3.8.6 Dispatch bids - generating units and bidirectional units**

In clause 3.8.6(h)(3), omit all references to "*dispatch offer*" and substitute "*dispatch bid*".

**[168] Clause 3.8.6 Dispatch bids - generating units and bidirectional units**

In clause 3.8.6(h)(3)(ii), omit "multiplied by" and substitute "and".

**[169] Clause 3.8.6A Scheduled network service offers for dispatch**

Omit the heading of clause 3.8.6A and substitute:

### **3.8.6A Scheduled network service dispatch bids**

#### **[170] Clause 3.8.6A Scheduled network service dispatch bids**

Omit the opening paragraph of clause 3.8.6A and substitute:

*Scheduled Network Service Providers* must comply with the following requirements when submitting a *dispatch bid* to provide *scheduled network services*:

#### **[171] Clause 3.8.6A Scheduled network service dispatch bids**

In clause 3.8.6A(a), omit "*network dispatch offer*" and substitute "*dispatch bid*".

#### **[172] Clause 3.8.6A Scheduled network service dispatch bids**

In clause 3.8.6A(b), omit "*network dispatch offer*" and substitute "*dispatch bid*".

#### **[173] Clause 3.8.6A Scheduled network service dispatch bids**

In clause 3.8.6A(b)(1), omit "*network dispatch offer*" and substitute "*dispatch bid*".

#### **[174] Clause 3.8.6A Scheduled network service dispatch bids**

In clause 3.8.6A(c), omit "*network dispatch offer*" and substitute "*dispatch bid*".

#### **[175] Clause 3.8.6A Scheduled network service dispatch bids**

In clause 3.8.6A(d), omit "*network dispatch offer*" and substitute "*dispatch bid*".

#### **[176] Clause 3.8.6A Scheduled network service dispatch bids**

In clause 3.8.6A(h), omit "multiplied by" and substitute "and".

#### **[177] Clause 3.8.6A Scheduled network service dispatch bids**

In clause 3.8.6A(i), omit "*network dispatch offer*" and substitute "*dispatch bid*".

### **[178] Clause 3.8.7 Bids for scheduled load**

Omit the heading of clause 3.8.7 and substitute:

### **3.8.7 Scheduled load dispatch bids**

#### **[179] Clause 3.8.7 Scheduled load dispatch bids**

Omit the opening paragraph of clause 3.8.7 and substitute:

*Market Customers* and *Integrated Resource Providers* must comply with the following requirements when submitting a *dispatch bid* for a *scheduled load*:

**[180] Clause 3.8.7 Scheduled load dispatch bids**

In clause 3.8.7(f), omit "multiplied by" and substitute "and".

**[181] Clause 3.8.7 Scheduled load dispatch bids**

In clause 3.8.7(h)(1), omit "multiplied by" and substitute "and".

**[182] Clause 3.8.7 Scheduled load dispatch bids**

In clause 3.8.7(h)(2), omit "multiplied by" and substitute "and".

**[183] Clause 3.8.7 Scheduled load dispatch bids**

In clause 3.8.7(m), omit "may" and substitute "must".

**[184] Clause 3.8.7A Market ancillary services offers**

Omit the heading of clause 3.8.7A and substitute:

**3.8.7A Market ancillary services bids**

**[185] Clause 3.8.7A Market ancillary services bids**

Omit the opening paragraph of clause 3.8.7A and substitute:

*Ancillary Service Providers must comply with the following requirements when submitting a market ancillary service bid for any type of market ancillary service:*

**[186] Clause 3.8.7A Market ancillary services bids**

In clause 3.8.7A(a), omit "*market ancillary service offer*" and substitute "*market ancillary service bid*".

**[187] Clause 3.8.7A Market ancillary services bids**

In clause 3.8.7A(b), omit all references to "*market ancillary service offer*" and substitute "*market ancillary service bid*".

**[188] Clause 3.8.7A Market ancillary services bids**

In clause 3.8.7A(d), omit "*ancillary service offer*" and substitute "*market ancillary service bid*".

**[189] Clause 3.8.7A Market ancillary services bids**

In clause 3.8.7A(d), omit "*market ancillary service offer*" and substitute "*market ancillary service bid*".

**[190] Clause 3.8.7A Market ancillary services bids**

In clause 3.8.7A(e), omit "*market ancillary service offer*" and substitute "*market ancillary service bid*".

**[191] Clause 3.8.7A Market ancillary services bids**

In clause 3.8.7A(j), omit "*market ancillary service offer*" and substitute "*market ancillary service bid*".

**[192] Clause 3.8.7A Market ancillary services bids**

In clause 3.8.7A(k), omit "*market ancillary service offer*" and substitute "*market ancillary service bid*".

**[193] Clause 3.8.7A Market ancillary services bids**

In clause 3.8.7A(k), omit "*ancillary service generating unit or ancillary service load, as the case may be,*" and substitute "*ancillary service unit*".

**[194] Clause 3.8.7A Market ancillary services bids**

In clause 3.8.7A(l), omit "*market ancillary service offer*" and substitute "*market ancillary service bid*".

**[195] Clause 3.8.7A Market ancillary services bids**

In clause 3.8.7A(l), omit "*ancillary service generating unit or ancillary service load*" and substitute "*ancillary service unit*".

**[196] Clause 3.8.7A Market ancillary services bids**

In clause 3.8.7A(m), omit "*market ancillary service offer*" and substitute "*market ancillary service bid*".

**[197] Clause 3.8.7A Market ancillary services bids**

In clause 3.8.7A(m), omit "*ancillary service generating unit or ancillary service load*" and substitute "*ancillary service unit*".

**[198] Clause 3.8.7B Wholesale demand response dispatch bids**

Omit the opening paragraph of clause 3.8.7B and substitute:

*Wholesale Demand Response Providers* must comply with the following requirements when submitting *wholesale demand response dispatch bids*:

**[199] Clause 3.8.7B Wholesale demand response dispatch bids**

In clause 3.8.7B(e)(1)(ii), omit "multiplied by" and substitute "and".

**[200] Clause 3.8.8 Validation of dispatch bids and offers**

Omit the heading of clause 3.8.8 and substitute:

**3.8.8 Validation of dispatch bids**

**[201] Clause 3.8.8 Validation of dispatch bids**

Omit clause 3.8.8(a) and substitute:

- (a) If a *dispatch bid* or *market ancillary service bid* is made in accordance with clauses 3.8.6, 3.8.6A, 3.8.7, 3.8.7A or 3.8.7B (whichever is applicable), *AEMO* must make available to the *Market Participant* who submitted the *dispatch bid* or *market ancillary service bid* the following information without delay:
  - (1) acknowledgement of receipt of a valid *dispatch bid* or *market ancillary service bid*; and
  - (2) the data contained in the *dispatch bid* or *market ancillary service bid* as it will be used by *AEMO* in the *central dispatch* process.

**[202] Clause 3.8.8 Validation of dispatch bids**

Omit clause 3.8.8(b), excluding the "Note" and substitute:

- (b) It is the responsibility of each *Market Participant* to check that the data contained in its *dispatch bid* or *market ancillary service bid* as received and to be used by *AEMO* in the *central dispatch* process is correct.

**[203] Clause 3.8.8 Validation of dispatch bids**

Omit clause 3.8.8(c) and substitute:

- (c) If a *dispatch bid* or *market ancillary service bid* is not made in accordance with clauses 3.8.6, 3.8.6A, 3.8.7, 3.8.7A or 3.8.7B (whichever is applicable), *AEMO* must not include that *dispatch bid* or *market ancillary service bid* in the *central dispatch* process and must without delay notify the *Market Participant* submitting the *dispatch bid* or *market ancillary service bid* of its invalidity and provide to that *Market Participant* details of the invalid data.

**[204] Clause 3.8.8 Validation of dispatch bids**

Omit clause 3.8.8(d) and substitute:



- (d) If any details contained within a *dispatch bid* or *market ancillary service bid* are inconsistent with the *bid validation data* provided by the relevant *Market Participant* then *AEMO* has the right to treat that *dispatch bid* or *market ancillary service bid* as invalid and if it does so must notify the *Market Participant* without delay.

### **[205] Clause 3.8.9 Default offers and bids**

Omit clause 3.8.9 in its entirety and substitute:

#### **3.8.9 Default bids**

- (a) A *Market Participant* may, at any time, submit a *default bid*.
- (b) A *Market Participant* may vary or withdraw a *default bid* at any time prior to the deadline for submissions of *dispatch bids* and *market ancillary service bids* for a *trading day* in accordance with the *timetable*.
- (c) Subject any procedures *published* in accordance with paragraph (d), a *default bid* applicable to a *trading day* must be included by *AEMO* in the *central dispatch* process when the deadline for submission of *dispatch bids* and *market ancillary service bids* for that *trading day* arrives in accordance with the *timetable* if, and only if, no later valid *dispatch bid* or *market ancillary service bid* has been submitted pursuant to clauses 3.8.6, 3.8.6A, 3.8.7, 3.8.7A, 3.8.7B or paragraph (b).
- (d) *AEMO*, in consultation with *Market Participants* in accordance with the *Rules consultation procedures*, must develop and *publish* procedures to determine the circumstances when *AEMO* may use a prior *dispatch bid* or *market ancillary service bid* lodged by a *Market Participant* as a substitute for a *default bid*.
- (e) *AEMO* may disregard a *default bid* and substitute a prior *dispatch bid* or *market ancillary service bid* lodged by a *Market Participant* determined in accordance with a procedure developed under paragraph (d) as inputs to *PASA*, *pre-dispatch* and *central dispatch*.

### **[206] Clause 3.8.10 Network constraints**

In clause 3.8.10(a), omit "*scheduled generating units, semi-scheduled generating units, wholesale demand response units, scheduled network services, scheduled loads, ancillary service generating units or ancillary service loads*" and substitute "*scheduled resources or ancillary service units*".

### **[207] Clause 3.8.10 Network constraints**

In clause 3.8.10(c)(2)(ii), omit "*Scheduled Generators, Semi-Scheduled Generators and Market Participants*" and substitute "*relevant Market Participants*".

**[208] Clause 3.8.10 Network constraints**

In clause 3.8.10(c)(4)(ii), omit "*Scheduled Generators, Semi-Scheduled Generators and Market Participants*" and substitute "*relevant Market Participants*".

**[209] Clause 3.8.10 Network constraints**

In clause 3.8.10(e)(2), omit "*scheduled generating units, semi-scheduled generating units, wholesale demand response units, scheduled loads, scheduled network services*" and substitute "*scheduled resources*".

**[210] Clause 3.8.10 Network constraints**

In clause 3.8.10(e)(2), omit "on the basis of *dispatch offers* and *dispatch bids*".

**[211] Clause 3.8.14 Dispatch under conditions of supply scarcity**

In clause 3.8.14(a)(1), omit "and *dispatch offers* submitted by *Scheduled Generators, Semi-Scheduled Generators* or".

**[212] Clause 3.8.14 Dispatch under conditions of supply scarcity**

In clause 3.8.14(a)(2), omit "and *dispatch offers*".

**[213] Clause 3.8.14 Dispatch under conditions of supply scarcity**

In clause 3.8.14(c)(2), omit "a *Market Customer*" and substitute "an *Affected Consuming Participant*".

**[214] Clause 3.8.16 Equal priced dispatch bids and dispatch offers**

In the heading of clause 3.8.16, omit "**and dispatch offers**".

**[215] Clause 3.8.16 Equal priced dispatch bids**

In clause 3.8.16, omit "are *scheduled generating units, wholesale demand response units, semi-scheduled generating units* or *scheduled loads*" and substitute "are *scheduled resources* (other than *scheduled network services*)".

**[216] Clause 3.8.16 Equal priced dispatch bids**

In clause 3.8.16, omit all references to "or *dispatch offers*".

**[217] Clause 3.8.17 Self-commitment**

In clause 3.8.17(c), omit "A *Generator* may" and substitute "A *Scheduled Generator* may".

**[218] Clause 3.8.18 Self-decommitment**

In clause 3.8.18(a), omit "A *Generator* may" and substitute "A *Scheduled Generator* may".

**[219] Clause 3.8.18 Self-decommitment**

In clause 3.8.18(e), omit "or *Market Participant*".

**[220] Clause 3.8.19 Dispatch inflexibilities**

Omit clause 3.8.19(a) and substitute:

- (a) Subject to paragraph (a2), if a *Market Participant* reasonably expects one or more of its *scheduled resources* (other than *semi-scheduled generating units*) to be unable to operate in accordance with *dispatch instructions* in any *trading interval*, due to abnormal *plant* conditions or other abnormal operating requirements in respect of the relevant *scheduled resources*, it must advise *AEMO* through the *PASA* or in its *dispatch bid* in respect of that *scheduled resource*, that the relevant *scheduled resource* is *inflexible* in that *trading interval* and must specify a fixed *loading level* at which the relevant *scheduled resource* is to be operated in that *trading interval*.

**[221] Clause 3.8.19 Dispatch inflexibilities**

In clause 3.8.19(a1), omit "clause 3.8.19(a2)" and substitute "paragraph (a2)".

**[222] Clause 3.8.19 Dispatch inflexibilities**

In clause 3.8.19(a1), omit "*dispatch offer*" and substitute "*dispatch bid*".

**[223] Clause 3.8.19 Dispatch inflexibilities**

Omit clause 3.8.19(a2) and substitute:

- (a2) If paragraph (a) or paragraph (a1) applies, the relevant *Market Participant*:
  - (1) must not advise *AEMO* that a *scheduled resource* is *inflexible* under paragraph (a) or paragraph (a1) unless it reasonably expects the *scheduled resource* to be unable to operate in accordance with *dispatch instructions* in any *trading interval*, due to abnormal *plant* conditions or other abnormal operating requirements in respect of that *scheduled resource*; and

- (2) must, as soon as practicable, advise *AEMO* that a *scheduled resource* is not *inflexible* once it no longer reasonably expects the *scheduled resource* to be unable to operate in accordance with *dispatch instructions* in any *trading interval*, due to abnormal *plant* conditions or other abnormal operating requirements in respect of that *scheduled resource*.

**[224] Clause 3.8.19 Dispatch inflexibilities**

Omit the opening paragraph of clause 3.8.19(b) and substitute:

- (b) Where a *Market Participant* advises *AEMO* that a *scheduled resource* is *inflexible* in accordance with paragraph (a) or paragraph (a1) the *Market Participant* must:

**[225] Clause 3.8.19 Dispatch inflexibilities**

In clause 3.8.19(b)(1), omit "*scheduled generating unit, semi-scheduled generating unit, wholesale demand response unit, scheduled network service or scheduled load*" and substitute "*scheduled resource*".

**[226] Clause 3.8.19 Dispatch inflexibilities**

In clause 3.8.19(b)(2), omit "clause 3.8.19(b)(2)" and substitute "subparagraph (b)(2)".

**[227] Clause 3.8.19 Dispatch inflexibilities**

Omit clause 3.8.19(c) and substitute:

- (c) Other than in *trading intervals* for which it has been specified by a *Market Participant* in the relevant *dispatch bid* for a *scheduled resource* that the *scheduled resource* is *inflexible*, *AEMO* will *dispatch* the *scheduled resource* in accordance with the prices and *price bands* specified in the relevant *dispatch bid*.

**[228] Clause 3.8.19 Dispatch inflexibilities**

Omit clause 3.8.19(d) and substitute:

- (d) In respect of *scheduled resources* which are not *slow start generating units*, *Market Participants* may provide *AEMO*, as part of a *dispatch bid* in respect of the relevant *scheduled resource*, with a *dispatch inflexibility profile*.

**[229] Clause 3.8.19 Dispatch inflexibilities**

In clause 3.8.19(e), after "for a *generating unit*", insert "or *bidirectional unit*".

**[230] Clause 3.8.19 Dispatch inflexibilities**

In clause 3.8.19(g), omit "a *Scheduled Generator's, Semi-Scheduled Generator's* or" and substitute "an applicable".

**[231] Clause 3.8.20 Pre-dispatch schedule**

In clause 3.8.20(a), omit "and *dispatch offers*".

**[232] Clause 3.8.20 Pre-dispatch schedule**

In clause 3.8.20(c)(1), omit ", *dispatch offers* and *market ancillary service offers*" and substitute "and *market ancillary service bids*".

**[233] Clause 3.8.20 Pre-dispatch schedule**

In clause 3.8.20(c)(2), omit "*power system load*" and substitute "of total *load*".

**[234] Clause 3.8.20 Pre-dispatch schedule**

In clause 3.8.20(g), omit "Each *Scheduled Generator, Demand Response Service Provider, Scheduled Network Service Provider* and *Market Customer* which has classified a *scheduled load* and *Market Participant* (which has classified an *ancillary service generating unit* or *ancillary service load*)" and substitute "The *Market Participant* in respect of a *scheduled resource* or an *ancillary service unit*".

**[235] Clause 3.8.20 Pre-dispatch schedule**

In clause 3.8.20(i), omit "*Scheduled Generators, Semi-Scheduled Generators* and".

**[236] Clause 3.8.20 Pre-dispatch schedule**

In clause 3.8.20(j), omit the opening paragraph and substitute:

- (j) Subject to clause 3.8.20(b), the following *pre-dispatch* outputs relating specifically to a *scheduled resource* or an *ancillary service unit* must be made available electronically to the relevant *Market Participant* on a confidential basis:

**[237] Clause 3.8.20 Pre-dispatch schedule**

In clause 3.8.20(j)(2), omit "scheduled entity" and substitute "*scheduled resource* or *ancillary service unit*".

**[238] Clause 3.8.20 Pre-dispatch schedule**

In clause 3.8.20(j)(3), omit "*ancillary services*" and substitute "*market ancillary services*".

**[239] Clause 3.8.20 Pre-dispatch schedule**

In clause 3.8.20(j)(4), omit "*ancillary services*" and substitute "*market ancillary services*".

**[240] Clause 3.8.20 Pre-dispatch schedule**

Omit clause 3.8.20(k) and substitute:

- (k) Where the *pre-dispatch schedule* may have failed to *dispatch* a *scheduled generating unit*, a *semi-scheduled generating unit*, a *scheduled bidirectional unit* or a *scheduled load* to maximise the joint value of *energy* and *ancillary services pre-dispatch* outputs of the relevant *scheduled resource*, due to the relevant *scheduled resource* operating outside its *enablement limit*, *AEMO* must notify the relevant *Market Participant* electronically on a confidential basis.

**[241] Clause 3.8.21 On-line dispatch process**

In clause 3.8.21(a), omit "and *dispatch offers*".

**[242] Clause 3.8.21 On-line dispatch process**

Omit clause 3.8.21(d) and substitute:

- (d) *AEMO* will issue *dispatch instructions* to *Market Participants* electronically.

**[243] Clause 3.8.21 On-line dispatch process**

In clause 3.8.21(e), omit "the methods described in paragraph (d) are not possible" and substitute "issuing *dispatch instructions* electronically is not reasonably possible".

**[244] Clause 3.8.21 On-line dispatch process**

In clause 3.8.21(f), omit "*Scheduled Generator*, *Semi-Scheduled Generator* or".

**[245] Clause 3.8.21 On-line dispatch process**

In clause 3.8.21(g), omit "*AGC system*" and substitute "*AGC*".

**[246] Clause 3.8.21 On-line dispatch process**

In clause 3.8.21(j), omit "*scheduled load*, *wholesale demand response unit*, *scheduled generating unit* or *semi-scheduled generating unit*" and substitute "*scheduled resource*".

**[247] Clause 3.8.21 On-line dispatch process**

In clause 3.8.21(j), omit "*plant*" and substitute "*scheduled resource*".



**[248] Clause 3.8.21 On-line dispatch process**

In clause 3.8.21(k), omit "*scheduled load, wholesale demand response unit or generating units*" and substitute "*scheduled resource*".

**[249] Clause 3.8.21 On-line dispatch process**

In clause 3.8.21(l), omit "*Scheduled Generators, Semi-Scheduled Generators* and".

**[250] Clause 3.8.21 On-line dispatch process**

Omit clause 3.8.21(m) and substitute:

- (m) Where the *central dispatch* process may have failed to *dispatch* a *scheduled generating unit, semi-scheduled generating unit, bidirectional unit or scheduled load* to maximise the joint value of *energy and ancillary services* due to the relevant *scheduled resource* operating outside its *enablement limit*, *AEMO* must notify the relevant *Market Participant* electronically on a confidential basis.

**[251] Clause 3.8.22 Rebidding**

In clause 3.8.22(a), omit ", *dispatch offers and market ancillary service offers*" and substitute "*and market ancillary service bids*".

**[252] Clause 3.8.22 Rebidding**

In clause 3.8.22(b)(1), omit "*generating units, scheduled network services, wholesale demand response units and scheduled loads*" and substitute "*scheduled resources*".

**[253] Clause 3.8.22 Rebidding**

In clause 3.8.22(b), in the end paragraph, omit "*dispatch offer*".

**[254] Clause 3.8.22A Offers, bids and rebids must not be false or misleading**

Omit the heading of clause 3.8.22A and substitute:

**3.8.22A Bids and rebids must not be false or misleading**

**[255] Clause 3.8.22A Bids and rebids must not be false or misleading**

In clause 3.8.22A(a), omit "*dispatch offer*".

**[256] Clause 3.8.22A Bids and rebids must not be false or misleading**

In clause 3.8.22A(a1), omit "*dispatch offer*".



**[257] Clause 3.8.22A Bids and rebids must not be false or misleading**

In clause 3.8.22A(a1), omit all references to "offer, bid" and substitute "*dispatch bid*".

**[258] Clause 3.8.22A Bids and rebids must not be false or misleading**

In clause 3.8.22A(b), omit "*dispatch offer*".

**[259] Clause 3.8.22A Bids and rebids must not be false or misleading**

In clause 3.8.22A(b), omit "such an offer, bid" and substitute "the *dispatch bid*".

**[260] Clause 3.8.22A Bids and rebids must not be false or misleading**

In clause 3.8.22A(b1), omit "*dispatch offer*".

**[261] Clause 3.8.22A Bids and rebids must not be false or misleading**

In clause 3.8.22A(c), omit "*dispatch offer*".

**[262] Clause 3.8.22A Bids and rebids must not be false or misleading**

In clause 3.8.22A(c)(1), omit "*dispatch offers*".

**[263] Clause 3.8.22A Bids and rebids must not be false or misleading**

In clause 3.8.22A(d), omit "*dispatch offer* or".

**[264] Clause 3.8.22A Bids and rebids must not be false or misleading**

In clause 3.8.22A(e)(2), after "more *generating units*", insert "or *bidirectional units*".

**[265] Clause 3.8.22A Bids and rebids must not be false or misleading**

In clause 3.8.22A(e)(2), after "the *loading level* of any *generating units*", insert "or *bidirectional units*".

**[266] Clause 3.8.23 Failure to conform to dispatch instructions excluding wholesale demand response units**

In clause 3.8.23(a), after each occasion of "*scheduled generating unit*," insert "*scheduled bidirectional unit*".

**[267] Clause 3.8.23 Failure to conform to dispatch instructions excluding wholesale demand response units**

In clause 3.8.23(c), in the opening paragraph, omit "*scheduled generating unit, semi-scheduled generating unit, scheduled network service or scheduled load*" and substitute "*scheduled resource*".

**[268] Clause 3.8.23 Failure to conform to dispatch instructions excluding wholesale demand response units**

In clause 3.8.23(c)(1), omit "*Scheduled Generator, Semi-Scheduled Generator, Scheduled Network Service Provider or Market Customer* that the relevant *generating unit, scheduled network service or scheduled load*" and substitute "*relevant Market Participant* that the relevant *scheduled resource*".

**[269] Clause 3.8.23 Failure to conform to dispatch instructions excluding wholesale demand response units**

In clause 3.8.23(c)(2), omit "*Scheduled Generator, Semi-Scheduled Generator, Scheduled Network Service Provider or Market Customer*" and substitute "*relevant Market Participant*".

**[270] Clause 3.8.23 Failure to conform to dispatch instructions excluding wholesale demand response units**

Omit clause 3.8.23(c)(3) and substitute:

- (3) should a *Scheduled Generator, Semi-Scheduled Generator or Scheduled Integrated Resource Provider* fail to meet the requests set out subparagraphs (1) and (2) or if *AEMO* is not satisfied that the *generating unit or scheduled bidirectional unit* will respond to future *dispatch instructions* as required, *AEMO* must direct the *generating unit or scheduled bidirectional unit* to follow, as far as is practicable, a specified output and (where applicable) consumption profile to be determined at its discretion by *AEMO*;

**[271] Clause 3.8.23 Failure to conform to dispatch instructions excluding wholesale demand response units**

In clause 3.8.23(c)(5), omit "*default dispatch bid*" and substitute "*default bid*".

**[272] Clause 3.8.23 Failure to conform to dispatch instructions excluding wholesale demand response units**

Omit clause 3.8.23(d) and substitute:

- (d) Until a *Market Participant* satisfactorily responds to the requests under paragraphs (c)(1) and (2) and *AEMO* is satisfied that the relevant *scheduled resource* will respond to future *dispatch instructions* as required, that *scheduled resource* continues to be non-conforming.

**[273] Clause 3.8.23 Failure to conform to dispatch instructions excluding wholesale demand response units**

In clause 3.8.23(e), omit "a *generating unit, scheduled network service or scheduled load* (as the case may be)" and substitute "a *scheduled resource*".

**[274] Clause 3.8.23 Failure to conform to dispatch instructions excluding wholesale demand response units**

In clause 3.8.23(e), omit "*Scheduled Generator, Semi-Scheduled Generator, Scheduled Network Service Provider or Market Customer*" and substitute "relevant *Market Participant*".

**[275] Clause 3.8.23 Failure to conform to dispatch instructions excluding wholesale demand response units**

In clause 3.8.23(f), omit "*Scheduled Generator, Semi-Scheduled Generator or Scheduled Network Service Provider* (whichever is relevant)" and substitute "relevant *Market Participant*".

**[276] Clause 3.8.23 Failure to conform to dispatch instructions excluding wholesale demand response units**

In clause 3.8.23(g), in the opening paragraph, omit "*ancillary service generating unit or ancillary service load*" and substitute "*ancillary service unit*".

**[277] Clause 3.8.23 Failure to conform to dispatch instructions excluding wholesale demand response units**

In clause 3.8.23(g)(1), omit "*ancillary service generating unit* or *ancillary service load*" and substitute "*ancillary service unit*".

**[278] Clause 3.8.23 Failure to conform to dispatch instructions excluding wholesale demand response units**

In clause 3.8.23(g)(2), omit "*ancillary service generating unit* or *ancillary service load*" and substitute "*ancillary service unit*".

**[279] Clause 3.8.23 Failure to conform to dispatch instructions excluding wholesale demand response units**

In clause 3.8.23(g)(3), omit all references to "*ancillary service generating unit* or *ancillary service load*" and substitute "*ancillary service unit*".

**[280] Clause 3.8.23 Failure to conform to dispatch instructions excluding wholesale demand response units**

In clause 3.8.23(h), omit all references to "*ancillary service generating unit* or *ancillary service load*" and substitute "*ancillary service unit*".

**[281] Clause 3.8.23 Failure to conform to dispatch instructions excluding wholesale demand response units**

In clause 3.8.23(i), omit "*default dispatch bid*" and substitute "*default bid*".

**[282] Clause 3.9.1 Principles applicable to spot price determination**

Omit clause 3.9.1(a)(3) and substitute:

- (3) *spot prices* determine *dispatch* such that a *generating unit*, *bidirectional unit*, *wholesale demand response unit* or *scheduled load* whose *dispatch bid* at a location is below the *spot price* at that location will normally be *dispatched*;

**[283] Clause 3.9.1 Principles applicable to spot price determination**

Omit clause 3.9.1(a)(3A) and substitute:

- (3A) *plant* that operates in accordance with a *direction* is to be taken into account in the *central dispatch* process, but the *dispatch bid* for the relevant *plant* will not be used in the calculation of the *spot price* for the relevant *trading interval*;

**[284] Clause 3.9.1 Principles applicable to spot price determination**

In clause 3.9.1(a)(3B), omit "*ancillary service generating units and ancillary service loads*" and substitute "*ancillary service units*".

**[285] Clause 3.9.1 Principles applicable to spot price determination**

In clause 3.9.1(a)(3B), omit "*market ancillary service offer* which operates in accordance with a fixed constraint" and substitute "*market ancillary service bid* in respect of the relevant *ancillary service unit*".

**[286] Clause 3.9.1 Principles applicable to spot price determination**

Omit clause 3.9.1(a)(3C) and substitute:

- (3C) *plant* that operates in accordance with a *direction* to provide an *ancillary service* is to be taken into account in the *central dispatch* process, but the price in a *market ancillary service bid* in respect of the relevant *plant* will not be used in the calculation of the *ancillary service price* for that *market ancillary service* for the relevant *trading interval*;

**[287] Clause 3.9.1 Principles applicable to spot price determination**

In clause 3.9.1(a)(4), omit "*network dispatch offers*" and substitute "*dispatch bids* for *scheduled network services*".

**[288] Clause 3.9.1 Principles applicable to spot price determination**

Omit clause 3.9.1(a)(5) and substitute:

- (5) where the *energy* output of a *Market Participant* is limited above or below the level at which it would otherwise have been *dispatched* by *AEMO* on the basis of its *dispatch bid* due to a *direction* to provide *ancillary services*, the *Registered Participant's dispatch bid* is taken into account in the determination of *dispatch* but the *dispatch bid* will not be used in the calculation of the *spot price* for the relevant *trading interval*;

**[289] Clause 3.9.1 Principles applicable to spot price determination**

In clause 3.9.1(a)(5A), omit "*market ancillary service offers*" and substitute "*market ancillary service bids*".

**[290] Clause 3.9.2 Determination of spot prices**

In clause 3.9.2(e)(1), omit "to shed *load*" and substitute "for *load shedding*".

**[291] Clause 3.9.2 Determination of spot prices**

Omit clause 3.9.2(k) and substitute:

- (k) If a test is being conducted on a *scheduled resource* in accordance with clause 3.11.2 and for the purpose of conducting that test, the *scheduled resource* is excluded from *central dispatch*, then the prices in a *dispatch bid* for the relevant *scheduled resource* cannot be used to set the *spot price* for the relevant *trading interval*.

**[292] Clause 3.9.2A Determination of ancillary services prices**

Omit clause 3.9.2A(d) and substitute:

- (d) If a test is being conducted on any *scheduled resource* in accordance with clause 3.11.2 and for the purpose of conducting that test, the relevant *scheduled resource* is excluded from *central dispatch*, then the prices in a *market ancillary services bid* relating to that *plant* cannot be used to set *ancillary service prices*.

**[293] Clause 3.9.2B Pricing where AEMO determines a manifestly incorrect input**

In clause 3.9.2B(a), in the definition of "*input*", omit "and *dispatch offers*".

**[294] Clause 3.9.3 Pricing in the event of intervention by AEMO**

In clause 3.9.3(b1)(1), after "by any *generating unit*", insert "or *bidirectional unit*".

**[295] Clause 3.9.3 Pricing in the event of intervention by AEMO**

In clause 3.9.3(b1)(2), after "by any *generating unit*", insert "or *bidirectional unit*".

**[296] Clause 3.9.3 Pricing in the event of intervention by AEMO**

In clause 3.9.3(b1)(3), omit "*ancillary service generating unit*" and substitute "*ancillary service unit*".

**[297] Clause 3.9.3 Pricing in the event of intervention by AEMO**

In clause 3.9.3(b1)(4), omit "*ancillary service generating unit*" and substitute "*ancillary service unit*".

**[298] Clause 3.9.3 Pricing in the event of intervention by AEMO**

In clause 3.9.3(b2)(1), omit "or *ancillary service generating unit*" and substitute ", *bidirectional unit* or *ancillary service unit*".

**[299] Clause 3.9.3C Reliability standard and interim reliability measure**

In clause 3.9.3C(b)(1)(i), after each occasion of "*generating unit*", insert ", *bidirectional unit*".

**[300] Clause 3.9.3C Reliability standard and interim reliability measure**

In clause 3.9.3C(b)(1)(ii), after "*new generating units*", insert ", *bidirectional units*".

**[301] Clause 3.9.3C Reliability standard and interim reliability measure**

In clause 3.9.3C(b)(2)(i), after each occasion of "*generating unit*", insert ", *bidirectional unit*".

**[302] Clause 3.9.3C Reliability standard and interim reliability measure**

In clause 3.9.3C(b)(2)(iii), omit "*generating facilities*" and substitute "*electricity production facilities*".

**[303] Clause 3.9.7 Pricing for constrained-on units**

In clause 3.9.7(a), after the first use of "*scheduled generating unit*", insert ", *scheduled bidirectional unit*".

**[304] Clause 3.9.7 Pricing for constrained-on units**

In clause 3.9.7(a), omit "*scheduled generating unit* or *wholesale demand response units*" and substitute "*scheduled resource*".

**[305] Clause 3.9.7 Pricing for constrained-on units**

In clause 3.9.7(a), omit "*dispatch offer* or *dispatch bid* as applicable" and substitute "*dispatch bid*".



**[306] Clause 3.9.7 Pricing for constrained-on units**

In clause 3.9.7(b), after "A *Scheduled Generator*", insert ", *Scheduled Integrated Resource Provider*".

**[307] Clause 3.9.7 Pricing for constrained-on units**

In clause 3.9.7(b), omit "*dispatch offer price*" and substitute "*dispatch bid price*".

**[308] Clause 3.9.7 Pricing for constrained-on units**

In clause 3.9.7(c)(1), omit "*inertia generating unit*" and substitute "*inertia unit*".

**[309] Clause 3.9.7 Pricing for constrained-on units**

In clause 3.9.7(c)(2), omit "*system strength generating unit*" and substitute "*system strength production unit*".

**[310] Clause 3.9.7 Pricing for constrained-on units**

In clause 3.9.7(c), omit "the relevant *generating unit*" and substitute "the relevant *inertia unit* or *system strength production unit*".

**[311] Clause 3.9.7 Pricing for constrained-on units**

In clause 3.9.7(c), omit "*dispatch offer*" and substitute "*dispatch bid*".

**[312] Clause 3.9.7 Pricing for constrained-on units**

In clause 3.9.7(c), omit "the *generating unit*" and substitute "the *inertia unit* or *system strength production unit*".

**[313] Clause 3.9.7 Pricing for constrained-on units**

In clause 3.9.7(d), after "A *Scheduled Generator*", insert "or *Scheduled Integrated Resource Provider*".

**[314] Clause 3.9.7 Pricing for constrained-on units**

In clause 3.9.7(d), omit "*dispatch offer price*" and substitute "*dispatch bid price*".

**[315] Clause 3.11.2 Market ancillary services**

In clause 3.11.2(f), omit "a *Market Participant* which has classified a *generating unit* as an *ancillary service generating unit* or a *load* as an *ancillary service load*" and substitute "an *Ancillary Service Provider*".

**[316] Clause 3.11.2 Market ancillary services**

In clause 3.11.2(f), omit "the *ancillary service generating unit* or *ancillary service load*" and substitute "its *ancillary service unit*".

**[317] Clause 3.11.2 Market ancillary services**

In clause 3.11.2(g), omit "*Market Participants*" and substitute "*Ancillary Service Providers*".

**[318] Clause 3.11.2 Market ancillary services**

Omit clause 3.11.2(h) and substitute:

- (h) *AEMO* may request an *Ancillary Services Provider* to provide to *AEMO* a report detailing how the relevant *ancillary service unit* responded to a particular change or particular changes in the *frequency* of the *power system*. An *Ancillary Service Provider* must provide a report requested under this paragraph 3.11.2(h) promptly but, in any event, in no more than 20 *business days* after notice to do so.

**[319] Clause 3.11.2 Market ancillary services**

Omit clause 3.11.2(i) and substitute:

- (i) *AEMO* may from time to time require an *Ancillary Service Provider* to demonstrate the relevant *ancillary service unit's* capability to provide the *market ancillary service* to the satisfaction of *AEMO* according to standard test procedures. An *Ancillary Service Provider* must promptly comply with a request by *AEMO* under this clause.

**[320] Clause 3.12.2 Affected Participants, Market Customers and Ancillary Service Providers entitlements to compensation in relation to AEMO intervention**

In the heading of clause 3.12.2, omit "*Market Customers*" and substitute "*Affected Load Participants*".

**[321] Clause 3.12.2 Affected Participants, Affected Load Participants and Ancillary Service Providers entitlements to compensation in relation to AEMO intervention**

In clause 3.12.2(a0), omit "*Market Customers*" and substitute "*Affected Load Participants*".

**[322] Clause 3.12.2 Affected Participants, Affected Load Participants and Ancillary Service Providers entitlements to compensation in relation to AEMO intervention**

In clause 3.12.2(a)(1), omit "*scheduled generating units* or *scheduled network services*" and substitute "*affected production units*, or *affected network services*".

**[323] Clause 3.12.2 Affected Participants, Affected Load Participants and Ancillary Service Providers entitlements to compensation in relation to AEMO intervention**

Omit clause 3.12.2(a)(2) and substitute:

- (2) an *Affected Load Participant* is entitled to receive from *AEMO*, in respect of one or more of its *affected loads*, an amount as determined in accordance with this clause 3.12.2, taking into account solely:
  - (i) the amount notified by *AEMO* under subparagraph (c)(3); and
  - (ii) the items listed in paragraph (a1); and

**[324] Clause 3.12.2 Affected Participants, Affected Load Participants and Ancillary Service Providers entitlements to compensation in relation to AEMO intervention**

In clause 3.12.2(a)(3), omit "*ancillary service generating units or ancillary service loads* that is also classified as a *scheduled generating unit or scheduled load* respectively," and substitute "*ancillary service units*,".

**[325] Clause 3.12.2 Affected Participants, Affected Load Participants and Ancillary Service Providers entitlements to compensation in relation to AEMO intervention**

Omit clause 3.12.2(a1)(1) and substitute:

- (1) the direct costs incurred or avoided by the *Affected Participant, Affected Load Participant or Ancillary Service Provider* in respect of that *affected production unit, affected network service or ancillary service unit*, as the case may be, as a result of the *AEMO intervention event* including:
  - (i) fuel costs;
  - (ii) incremental maintenance costs; and
  - (iii) incremental manning costs;

**[326] Clause 3.12.2 Affected Participants, Affected Load Participants and Ancillary Service Providers entitlements to compensation in relation to AEMO intervention**

In clause 3.12.2(a1)(2), omit "*Market Customer*" and substitute "*Affected Load Participant*".

**[327] Clause 3.12.2 Affected Participants, Affected Load Participants and Ancillary Service Providers entitlements to compensation in relation to AEMO intervention**

In clause 3.12.2(b), omit "*Market Customer*" and substitute "*Affected Load Participant*".

**[328] Clause 3.12.2 Affected Participants, Affected Load Participants and Ancillary Service Providers entitlements to compensation in relation to AEMO intervention**

Omit clause 3.12.2(b1) and substitute:

- (b1) An *Affected Participant*, *Affected Load Participant* or *Ancillary Service Provider* is not entitled to compensation under this clause 3.12.2 with respect to a *scheduled resource* or *ancillary service unit* for an *intervention price trading interval* if that *scheduled resource* is *dispatched* under a *scheduled reserve contract* or if AEMO is required to pay compensation under clauses 3.15.7, 3.15.7A or 3.15.7B with respect to that *plant* or service and *intervention price trading interval*.

**[329] Clause 3.12.2 Affected Participants, Affected Load Participants and Ancillary Service Providers entitlements to compensation in relation to AEMO intervention**

Omit clause 3.12.2(b2)(1) and substitute:

- (1) an *Affected Participant* or *Affected Load Participant* is not entitled to compensation under this clause 3.12.2 if the *loading level* determined by the *dispatch algorithm* for a *scheduled resource* (as relevant) in the intervention dispatch run is equal to the estimated level of *dispatch* for that scheduled resource, determined through the intervention pricing run; and

**[330] Clause 3.12.2 Affected Participants, Affected Load Participants and Ancillary Service Providers entitlements to compensation in relation to AEMO intervention**

In clause 3.12.2(b2)(2), omit all references to "*ancillary service generating unit* or *ancillary service load*" and substitute "*ancillary service unit*".

**[331] Clause 3.12.2 Affected Participants, Affected Load Participants and Ancillary Service Providers entitlements to compensation in relation to AEMO intervention**

In clause 3.12.2(c)(1)(i), omit "*scheduled network service* or *scheduled generating unit*" and substitute "*affected production unit* or *affected network service*".

**[332] Clause 3.12.2 Affected Participants, Affected Load Participants and Ancillary Service Providers entitlements to compensation in relation to AEMO intervention**

In clause 3.12.2(c)(3), omit "*Market Customer*" and substitute "*Affected Load Participant*".

**[333] Clause 3.12.2 Affected Participants, Affected Load Participants and Ancillary Service Providers entitlements to compensation in relation to AEMO intervention**

In clause 3.12.2(c)(3)(i), omit "*scheduled load*" and substitute "*affected load*".

**[334] Clause 3.12.2 Affected Participants, Affected Load Participants and Ancillary Service Providers entitlements to compensation in relation to AEMO intervention**

In clause 3.12.2(c)(3)(ii), omit "*Market Customer*" and substitute "*Affected Load Participant*".

**[335] Clause 3.12.2 Affected Participants, Affected Load Participants and Ancillary Service Providers entitlements to compensation in relation to AEMO intervention**

In clause 3.12.2(c)(4)(i), omit "*ancillary service generating unit* or *ancillary service load*" and substitute "*ancillary service unit*".

**[336] Clause 3.12.2 Affected Participants, Affected Load Participants and Ancillary Service Providers entitlements to compensation in relation to AEMO intervention**

In clause 3.12.2(d), omit all references to "*Market Customer*" and substitute "*Affected Load Participant*".

**[337] Clause 3.12.2 Affected Participants, Affected Load Participants and Ancillary Service Providers entitlements to compensation in relation to AEMO intervention**

In clause 3.12.2(d), omit all references to "*scheduled load*" and substitute "*affected load*".

**[338] Clause 3.12.2 Affected Participants, Affected Load Participants and Ancillary Service Providers entitlements to compensation in relation to AEMO intervention**

In clause 3.12.2(d), omit all references to "*scheduled load's*" and substitute "*affected load's*".

**[339] Clause 3.12.2 Affected Participants, Affected Load Participants and Ancillary Service Providers entitlements to compensation in relation to AEMO intervention**

In clause 3.12.2(d), in the description of "LF", omit "multiplied by" and substitute "and".

**[340] Clause 3.12.2 Affected Participants, Affected Load Participants and Ancillary Service Providers entitlements to compensation in relation to AEMO intervention**

In clause 3.12.2(f), omit all references to "*Market Customer*" and substitute "*Affected Load Participant*".

**[341] Clause 3.12.2 Affected Participants, Affected Load Participants and Ancillary Service Providers entitlements to compensation in relation to AEMO intervention**

In clause 3.12.2(g), omit all references to "*Market Customer*" and substitute "*Affected Load Participant*".

**[342] Clause 3.12.2 Affected Participants, Affected Load Participants and Ancillary Service Providers entitlements to compensation in relation to AEMO intervention**

In clause 3.12.2(i), omit all references to "*Market Customer*" and substitute "*Affected Load Participant*".

**[343] Clause 3.12.2 Affected Participants, Affected Load Participants and Ancillary Service Providers entitlements to compensation in relation to AEMO intervention**

In clause 3.12.2(m)(1), omit "*Market Customer*" and substitute "*Affected Load Participant*".

**[344] Clause 3.12.2 Affected Participants, Affected Load Participants and Ancillary Service Providers entitlements to compensation in relation to AEMO intervention**

In clause 3.12.2(n), omit "*Market Customer*" and substitute "*Affected Load Participant*".

**[345] Clause 3.12.2 Affected Participants, Affected Load Participants and Ancillary Service Providers entitlements to compensation in relation to AEMO intervention**

In clause 3.12.2(o)(2), omit "*Market Customer*" and substitute "*Affected Load Participant*".

**[346] Clause 3.12.2 Affected Participants, Affected Load Participants and Ancillary Service Providers entitlements to compensation in relation to AEMO intervention**

In clause 3.12.2(q), omit "*Market Customer*" and substitute "*Affected Load Participant*".

**[347] Clause 3.12.2 Affected Participants, Affected Load Participants and Ancillary Service Providers entitlements to compensation in relation to AEMO intervention**

In clause 3.12.2(r), omit all references to "*Market Customer*" and substitute "*Affected Load Participant*".



**[348] Clause 3.13.1 Provision of information**

In clause 3.13.1(a), omit "*Scheduled Generators, Semi-Scheduled Generators* and".

**[349] Clause 3.13.2 Systems and procedures**

In clause 3.13.2(c), omit "*Scheduled Generator, Semi Scheduled Generator* or".

**[350] Clause 3.13.2 Systems and procedures**

In clause 3.13.2(f), omit "*Scheduled Generator, Semi Scheduled Generator* and".

**[351] Clause 3.13.2 Systems and procedures**

In clause 3.13.2(g), omit "*Scheduled Generator, Semi Scheduled Generator* or".

**[352] Clause 3.13.2 Systems and procedures**

In clause 3.13.2(g), omit all references to "*Generator* or".

**[353] Clause 3.13.2 Systems and procedures**

In clause 3.13.2(h), omit "*Scheduled Generator, Semi Scheduled Generator* or".

**[354] Clause 3.13.2 Systems and procedures**

In clause 3.13.2(i), omit "*Scheduled Generators, Semi Scheduled Generators* and".

**[355] Clause 3.13.2 Systems and procedures**

In clause 3.13.2(i), omit "*Generator* or".

**[356] Clause 3.13.2 Systems and procedures**

In clause 3.13.2(k), omit "*Scheduled Generator, Semi Scheduled Generator* or".

**[357] Clause 3.13.3 Standing data**

In clause 3.13.3(a)(1), omit "*Scheduled Generators, Semi Scheduled Generators* and".

**[358] Clause 3.13.3 Standing data**

In clause 3.13.3(a)(1), omit "*Scheduled Generator, Semi Scheduled Generator* or".

**[359] Clause 3.13.3 Standing data**

In clause 3.13.3(a)(1), omit "*bid and offer validation data*" and substitute "*bid valuation data*".

**[360] Clause 3.13.3 Standing data**

Omit clause 3.13.3(2) and substitute:

- (2) a list of all of the *Market Participants* who will cease to be *Market Participants* and the time that each listed *Market Participant* will cease to be a *Market Participant*;

**[361] Clause 3.13.3 Standing data**

Omit clause 3.13.3(a)(2A) and substitute:

- (2A) a list of the *expected closure years* and *closure dates* for all *scheduled generating units*, *semi-scheduled generating units* and *scheduled bidirectional units* notified under clauses 2.1B.3 and 2.10.1(c1), and make such information available on *AEMO's* website;

**[362] Clause 3.13.3 Standing data**

In clause 3.13.3(a)(3), omit "*Scheduled Generators, Semi-Scheduled Generators* and".

**[363] Clause 3.13.3 Standing data**

In clause 3.13.3(a)(3), omit "*Scheduled Generator, Semi-Scheduled Generator* or".

**[364] Clause 3.13.3 Standing data**

Omit clause 3.13.3(b) and substitute:

- (b) A *Market Participant* must provide *AEMO* the *bid validation data* relevant to each of its *scheduled resources* and *ancillary service units* in accordance with schedule 3.1.

**[365] Clause 3.13.3 Standing data**

Omit clause 3.13.3(b1) and substitute:

- (b1) In addition to the information provided to *AEMO* in paragraph (b), where a *scheduled resource* has been aggregated under clause 3.8.3, the *Market Participant* in respect of the *scheduled resource* must provide to *AEMO*, as applicable:
  - (1) the maximum *generation* to which each individual *scheduled generating unit*, *semi-scheduled generating unit* or *scheduled bidirectional unit* may be *dispatched*;
  - (1A) the maximum level of consumption to which each individual *scheduled bidirectional unit* may be *dispatched*;
  - (2) the number of individual *scheduled loads* that have been aggregated in accordance with clause 3.8.3;

- (3) the number of *scheduled network services* that have been aggregated in accordance with clause 3.8.3; or
- (4) the number of individual *wholesale demand response units* that have been aggregated in accordance with clause 3.8.3.

**[366] Clause 3.13.3 Standing data**

In clause 3.13.3(c), omit "*Scheduled Generators, Semi-Scheduled Generators* and".

**[367] Clause 3.13.3 Standing data**

In clause 3.13.3(d), omit "*Scheduled Generators, Semi-Scheduled Generators* and".

**[368] Clause 3.13.3 Standing data**

In clause 3.13.3(h), omit "*Scheduled Generators, Semi-Scheduled Generators* and".

**[369] Clause 3.13.3 Standing data**

In clause 3.13.3(h), omit "*bid and offer valuation data*" and substitute "*bid validation data*".

**[370] Clause 3.13.3 Standing data**

Omit clause 3.13.3(j) and substitute:

- (j) *AEMO* must conduct an annual review of *bid validation data* in consultation with the relevant *Market Participants*, who must advise *AEMO* of any required changes to the data.

**[371] Clause 3.13.3 Standing data**

In clause 3.13.3(k), omit "*bid and offer valuation data*" and substitute "*bid validation data*".

**[372] Clause 3.13.3 Standing data**

In clause 3.13.3(12)(1), after "the *Generator*", insert "or *Integrated Resource Provider* (or the person required under the *Rules* to register as such)".

**[373] Clause 3.13.3 Standing data**

In clause 3.13.3(12)(1), omit "that *Generator*" and substitute "that person".

**[374] Clause 3.13.3 Standing data**

Omit clause 3.13.3(12)(2) and substitute "[Deleted]".

**[375] Clause 3.13.3 Standing data**

In clause 3.13.3(12)(3), after each occasion of "the *Generator*", insert "or *Integrated Resource Provider*".

**[376] Clause 3.13.3 Standing data**

In clause 3.13.3(15), in the opening paragraph, after "*power system and generating system*", insert "or *integrated resource system*".

**[377] Clause 3.13.3 Standing data**

In clause 3.13.3(15)(2), after "*generating system*", insert "*bidirectional unit, integrated resource system*".

**[378] Clause 3.13.3 Standing data**

In clause 3.13.3(m), after "including approval", insert "under clause 3.8.3".

**[379] Clause 3.13.3 Standing data**

In clause 3.13.3(m), omit "*generating units, market networks services, loads*".

**[380] Clause 3.13.3A Statement of opportunities**

After clause 3.13.3A(a)(2), insert:

- (2A) capabilities of existing *bidirectional units* and *bidirectional units* for which formal commitments have been made for construction or installation;

**[381] Clause 3.13.3A Statement of opportunities**

In clause 3.13.3A(a)(3), after "*generating units*", insert "and *bidirectional units*".

**[382] Clause 3.13.3A Statement of opportunities**

In clause 3.13.3A(a)(4), after "*generating units*", insert "and *bidirectional units*".

**[383] Clause 3.13.3A Statement of opportunities**

In clause 3.13.3A(a)(8), after "generating units,", insert "*bidirectional units*".

**[384] Clause 3.13.3A Statement of opportunities**

Omit clause 3.13.3A(a)(9), and substitute:

- (9) operational and economic information about the *market* to assist planning by *Market Participants* and potential *Market Participants*; and

**[385] Clause 3.13.3A Statement of opportunities**

In clause 3.13.3A(f) omit all references to "*Scheduled Generator, Semi Scheduled Generator*,".

**[386] Clause 3.13.4 Spot market**

In clause 3.13.4(f)(1), omit "most probable *peak power system load*" and substitute "most probable *peak load* for the total *power system*".

**[387] Clause 3.13.4 Spot market**

In clause 3.13.4(f)(4), after "aggregate *generating plant*", insert "and *bidirectional unit*".

**[388] Clause 3.13.4 Spot market**

Omit clause 3.13.4(f)(5A) and substitute:

(5A) the aggregated MW allowance (if any) made by *AEMO* for *generation* from *non-scheduled generating systems* and *non-scheduled integrated resource systems* in each forecast under:

- (i) subparagraphs (f)(1), (f)(2) and (f)(3); and
- (ii) **[Deleted]**
- (iii) **[Deleted]**
- (iv) subparagraph (f)(5), but not including shortages of *scheduled reserve* or projected *market ancillary service* surpluses and deficits for each *region*.

**[389] Clause 3.13.4 Spot market**

Omit clause 3.13.4(f)(5B) and substitute:

(5B) in respect of each forecast referred to in:

- (i) subparagraphs (f)(1), (f)(2) and (f)(3); and
- (ii) **[Deleted]**;
- (iii) **[Deleted]**;
- (iv) subparagraph (f)(5), but not including shortages of *scheduled reserve* or projected *market ancillary service* surpluses and deficits for each *region*,

a value that is the sum of that forecast and the relevant aggregated MW allowance (if any) referred to in clause 3.13.4(f)(5A); and

**[390] Clause 3.13.4 Spot market**

In clause 3.13.3(f)(6)(iii), omit "*the dispatch of generation or load*" and substitute "*dispatch*".

**[391] Clause 3.13.4 Spot market**

In clause 3.13.3(h), after "or *generating unit*", insert "or *bidirectional unit*".

**[392] Clause 3.13.4 Spot market**

In clause 3.13.3(h1), after "or *generating unit*", insert "or *bidirectional unit*".

**[393] Clause 3.13.4 Spot market**

In clause 3.13.3(n), omit "*regional and total interconnected system loads and energies*" and substitute "*MW load and generation for each region and the power system*".

**[394] Clause 3.13.4 Spot market**

In clause 3.13.3(p), omit the opening paragraph and substitute:

- (p) Each *day*, in accordance with the *timetable*, *AEMO* must *publish* details of final *dispatch bids* and *market ancillary service bids* received and actual availabilities of *scheduled resources* and *market ancillary services* for the previous *trading day*, including:

**[395] Clause 3.13.4 Spot market**

In clause 3.13.4(p)(1), omit "*Scheduled Generator, Semi-Scheduled Generator* or" and substitute "relevant".

**[396] Clause 3.13.4 Spot market**

In clause 3.13.4(p)(2), omit "*Scheduled Generator, Semi-Scheduled Generator* or".

**[397] Clause 3.13.4 Spot market**

In clause 3.13.4(p)(2), omit "*dispatch offer*".

**[398] Clause 3.13.4 Spot market**

In clause 3.13.4(p)(2), omit "*market ancillary offer*" and substitute "*market ancillary service bid*".

**[399] Clause 3.13.4 Spot market**

In clause 3.13.4(p)(3), omit "or *dispatch offer prices*".

**[400] Clause 3.13.4 Spot market**

Omit clause 3.13.4(p)(5) and substitute:

- (5) the telemetered *ramp rate* of each *generating unit, bidirectional unit, scheduled load and scheduled network service*;

**[401] Clause 3.13.4 Spot market**

In clause 3.13.4(p)(6), omit "*Scheduled Generator, Semi-Scheduled Generator* or" and substitute "relevant".

**[402] Clause 3.13.4 Spot market**

Omit clause 3.13.4(q)(1) and substitute:

- (1) for each *scheduled resource, dispatched generation, dispatched wholesale demand response, dispatched network service or dispatched load* (as applicable) in each *trading interval*;

**[403] Clause 3.13.4 Spot market**

After clause 3.13.4(r)(1), insert:

- (1A) *actual generation* for each *scheduled bidirectional unit and non-scheduled bidirectional unit or non-scheduled integrated resource system*;

**[404] Clause 3.13.4 Spot market**

In clause 3.13.4(r)(3), after "*actual load* for each", insert "*scheduled bidirectional unit* and".

**[405] Clause 3.13.4 Spot market**

In clause 3.13.4(t), after "that is less than 30 MW, insert "*or non-scheduled bidirectional units or non-scheduled integrated resource systems that have a nameplate rating that is less than 5 MW*".

**[406] Clause 3.13.4 Spot market**

In clause 3.13.4(u)(1), after "*non-scheduled generating systems*", insert "*or non-scheduled integrated resource systems*".

**[407] Clause 3.13.4 Spot market**

In clause 3.13.4(u)(2), omit "*or non-scheduled generating system*" and substitute "*, non-scheduled generating system, non-scheduled bidirectional unit or non-scheduled integrated resource system*".



**[408] Clause 3.13.4 Spot market**

In clause 3.13.4(u)(3), omit "*regional demand value*" and substitute "*MW load for the relevant region*".

**[409] Clause 3.13.4 Spot market**

In clause 3.13.4(x), after "*non-scheduled generating systems*", insert "*and non-scheduled integrated resource systems*".

**[410] Clause 3.13.7 Monitoring of significant variation between forecast and actual prices by AER**

Omit clause 3.13.7(d)(3) and substitute:

- (3) identify the marginal *scheduled generating units, semi-scheduled generating units and scheduled bidirectional units* for the relevant period and all *scheduled generating units, semi-scheduled generating units and scheduled bidirectional units* for which any *dispatch bid* for a *trading interval* in the relevant period was equal to or greater than \$5,000/MWh and compare these *dispatch bids* to relevant *dispatch bids* in previous *trading intervals*.

**[411] Clause 3.13.8 Public information**

In clause 3.13.8(a)(2), omit "*power system*" and substitute "MW".

**[412] Clause 3.13.12 NMI Standing Data**

In clause 3.13.12(a)(2), omit "*or a class of Market Customers,*" and substitute "*a class of Market Customers or Small Resource Aggregators*".

**[413] Clause 3.13.12 NMI Standing Data**

In clause 3.13.12(c)(1), omit "*or a specified class of Market Customers*" and substitute "*a specified class of Market Customers or Small Resource Aggregators*".

**[414] Clause 3.13.12 NMI Standing Data**

In clause 3.13.12(c)(4), after "*particular Market Customers*", insert "*or Small Resource Aggregators*".

**[415] Clause 3.13.12 NMI Standing Data**

In clause 3.13.12(c)(5), after "*the Market Customers*", insert "*or Small Resource Aggregator*".

**[416] Clause 3.13.12 NMI Standing Data**

In clause 3.13.12(d)(2), after "*Market Customers*", insert "and *Small Resource Aggregators*".

**[417] Clause 3.13.12 NMI Standing Data**

In clause 3.13.12(e), in the opening paragraph, after "*Market Customer*", insert "or *Small Resource Aggregator*".

**[418] Clause 3.13.12 NMI Standing Data**

In clause 3.13.12(e)(1), omit "or a member of a class of *Market Customers*" and substitute ", a member of a class of *Market Customers* or a *Small Resource Aggregator*".

**[419] Clause 3.13.12 NMI Standing Data**

In clause 3.13.12(g), omit "*Market Customers*" and substitute "A *Market Customer* or *Small Resource Aggregator*".

**[420] Clause 3.13.12 NMI Standing Data**

In clause 3.13.12(i), in the opening paragraph, after "a *Market Customer*", insert "or *Small Resource Aggregator*".

**[421] Clause 3.13.12 NMI Standing Data**

In clause 3.13.12(i)(1), after "the *Market Customer*", insert "or *Small Resource Aggregator*".

**[422] Clause 3.13.12 NMI Standing Data**

In clause 3.13.12(i)(1), omit the second references to "*Market Customer*" and substitute "relevant *Market Participant*".

**[423] Clause 3.13.12 NMI Standing Data**

In clause 3.13.12(i)(2), after each reference to "the *Market Customer*", insert "or *Small Resource Aggregator*".

**[424] Clause 3.13.12 NMI Standing Data**

In clause 3.13.12(i)(3), after each reference to "*Market Customer*", insert "or *Small Resource Aggregator*".

**[425] Clause 3.13.12 NMI Standing Data**

In clause 3.13.12(j)(1), after "to *Market Customers*", insert "and *Small Resource Aggregators*".

**[426] Clause 3.13.14 Carbon Dioxide Equivalent Intensity Index**

Omit clause 3.13.14(a1) and substitute "[Deleted]".

**[427] Clause 3.13.14 Carbon Dioxide Equivalent Intensity Index**

In clause 3.13.14(b)(3), omit "the *scheduled generating units* and *market generating units* included" and substitute "the *scheduled generating units, scheduled bidirectional units, market generating units* and *market bidirectional units* included".

**[428] Clause 3.13.14 Carbon Dioxide Equivalent Intensity Index**

In clause 3.13.14(b)(4), omit "a *scheduled generating unit* or *market generating unit* included" and substitute "a *scheduled generating unit, scheduled bidirectional unit, market generating unit* or *market bidirectional unit* included".

**[429] Clause 3.13.14 Carbon Dioxide Equivalent Intensity Index**

In clause 3.13.14(b)(5), omit "the *scheduled generating units* and *market generating units* included" and substitute "the *scheduled generating units, scheduled bidirectional units, market generating units* and *market bidirectional units* included".

**[430] Clause 3.13.14 Carbon Dioxide Equivalent Intensity Index**

In clause 3.13.14(c)(1), omit "the *scheduled generating units* and *market generating units* included" and substitute "the *scheduled generating units, scheduled bidirectional units, market generating units* and *market bidirectional units* included".

**[431] Clause 3.13.14 Carbon Dioxide Equivalent Intensity Index**

In clause 3.13.14(c)(2), omit "the *scheduled generating units* and *market generating units* included" and substitute "the *scheduled generating units, scheduled bidirectional units, market generating units* and *market bidirectional units* included".

**[432] Clause 3.13.14 Carbon Dioxide Equivalent Intensity Index**

In clause 3.13.14(i)(1), omit "the *scheduled generating units* and *market generating units* included" and substitute "the *scheduled generating units, scheduled bidirectional units, market generating units* and *market bidirectional units* included".

**[433] Clause 3.13.14 Carbon Dioxide Equivalent Intensity Index**

In clause 3.13.14(i)(2), omit "each *scheduled generating unit* or *market generating unit* referred" and substitute "each *scheduled generating unit*, *scheduled bidirectional unit*, *market generating unit* or *market bidirectional unit* referred".

**[434] Clause 3.13.14 Carbon Dioxide Equivalent Intensity Index**

In clause 3.13.14(j), omit "the *scheduled generating units* and *market generating units* included" and substitute "the *scheduled generating units*, *scheduled bidirectional units*, *market generating units* and *market bidirectional units* included".

**[435] Clause 3.13.14 Carbon Dioxide Equivalent Intensity Index**

In clause 3.13.14(k), omit "any *scheduled generating units* or *market generating units* included" and substitute "any *scheduled generating units*, *scheduled bidirectional units*, *market generating units* or *market bidirectional units* included".

**[436] Clause 3.13.14 Carbon Dioxide Equivalent Intensity Index**

In clause 3.13.14(l)(1), omit "any *scheduled generating units* or *market generating units* included" and substitute "any *scheduled generating units*, *scheduled bidirectional units*, *market generating units* or *market bidirectional units* included".

**[437] Clause 3.13.14 Carbon Dioxide Equivalent Intensity Index**

In clause 3.13.14(m)(1), after "*generating unit* is classified" insert "under Chapter 2".

**[438] Clause 3.13.14 Carbon Dioxide Equivalent Intensity Index**

In clause 3.13.14(m)(1), after "or *market generating unit*", insert ", or a *bidirectional unit* is classified as a *scheduled bidirectional unit* or *market bidirectional unit*,".

**[439] Clause 3.13.14 Carbon Dioxide Equivalent Intensity Index**

In clause 3.13.14(m)(2), after "for that *generating unit*", insert "or *bidirectional unit*".

**[440] Clause 3.13.14 Carbon Dioxide Equivalent Intensity Index**

In clause 3.13.14(m), after "to include data for that *generating unit*", insert "or *bidirectional unit*".

**[441] Clause 3.13.14 Carbon Dioxide Equivalent Intensity Index**

In clause 3.13.14(n), after "for any *generating units*", insert "or *bidirectional units*".

**[442] Clause 3.13.14 Carbon Dioxide Equivalent Intensity Index**

In clause 3.13.14(o)(1), omit "new *scheduled generating units* or *market generating units* included" and substitute "new *scheduled generating units*, *scheduled bidirectional units*, *market generating units* or *market bidirectional units* included".

**[443] Clause 3.14.5A Payment of compensation due to market suspension pricing schedule periods**

In clause 3.14.5A(a)(1), after "*Scheduled Generators*", insert "and *Scheduled Integrated Resource Providers*".

**[444] Clause 3.14.5A Payment of compensation due to market suspension pricing schedule periods**

In clause 3.14.5A(d), in the definition of "MWE", omit "*ancillary service generating unit*" and substitute "*ancillary service unit*".

**[445] Clause 3.14.5A Payment of compensation due to market suspension pricing schedule periods**

In clause 3.14.5A(e), in the definition of " $BC_{(av)}$ ", omit "of all *Scheduled Generators* in the same class of *Generator* and" and substitute "of all *Scheduled Generators* and *Scheduled Integrated Resource Providers* in the same class and".

**[446] Clause 3.14.5A Payment of compensation due to market suspension pricing schedule periods**

In clause 3.14.5A(e), in the definition of "FC", after "for the relevant *Generator*", insert "or *Scheduled Integrated Resource Provider*".

**[447] Clause 3.14.5A Payment of compensation due to market suspension pricing schedule periods**

In clause 3.14.5A(e), in the definition of "E", after "for the relevant *Generator*", insert "or *Scheduled Integrated Resource Provider*".

**[448] Clause 3.14.5A Payment of compensation due to market suspension pricing schedule periods**

In clause 3.14.5A(e), in the definition of "VOC", after "for the relevant *Generator*", insert "or *Scheduled Integrated Resource Provider*".

**[449] Clause 3.14.5A Payment of compensation due to market suspension pricing schedule periods**

In clause 3.14.5A(h)(1), after "of *Scheduled Generator*", insert ", *Scheduled Integrated Resource Provider*".

**[450] Clause 3.14.5A Payment of compensation due to market suspension pricing schedule periods**

In clause 3.14.5A(h)(2), after "of *Scheduled Generator*", insert ", *Scheduled Integrated Resource Provider*".

**[451] Clause 3.14.5B Claims for additional compensation due to market suspension pricing schedule periods**

In clause 3.14.5B(a)(3), after "relevant *generating unit*", insert "or *bidirectional unit*".

**[452] Clause 3.14.5B Claims for additional compensation due to market suspension pricing schedule periods**

In clause 3.14.5B(d), after "of a *generating unit*", insert "or *bidirectional unit*".

**[453] Clause 3.14.5B Claims for additional compensation due to market suspension pricing schedule periods**

In clauses 3.14.5B(d)(1), (2), (3) and (4), after each reference to "*generating unit*", insert "or *bidirectional unit*".

**[454] Clause 3.14.6 Compensation due to the application of an administered price cap or administered floor price**

In clause 3.14.6(a)(1), in the definition of **price limit event**, omit "*Non-Scheduled Generators*" and substitute "*Scheduled Integrated Resource Providers, Non-Scheduled Generators, Non-Scheduled Integrated Resource Providers*".

**[455] Clause 3.14.6 Compensation due to the application of an administered price cap or administered floor price**

In clause 3.14.6(a)(4), in the definition of **price limit event**, omit "*ancillary generating unit* or an *ancillary service load*" and substitute "*ancillary service unit*".

**[456] Clause 3.14.6 Compensation due to the application of an administered price cap or administered floor price**

Omit clause 3.14.6(b)(1) and substitute:

- (1) a *Scheduled Generator, Non-Scheduled Generator, Scheduled Integrated Resource Provider, Non-Scheduled Integrated Resource Provider or Demand Response Service Provider* in the relevant region (but excluding *Non-Market Generators* and *Non-Market Integrated Resource Providers*);

**[457] Clause 3.14.6 Compensation due to the application of an administered price cap or administered floor price**

In clause 3.14.6(c)(1), after "*Non-Scheduled Generators*", insert "*, Scheduled Integrated Resource Providers, Non-Scheduled Integrated Resource Providers*".

**[458] Clause 3.15.3 Connection point and virtual transmission node responsibility**

In clause 3.15.3(a)(1), omit "*market load*" and substitute "*market connection point*".

**[459] Clause 3.15.3 Connection point and virtual transmission node responsibility**

In clause 3.15.3(a)(2), omit "or".

**[460] Clause 3.15.3 Connection point and virtual transmission node responsibility**

In clause 3.15.3(a)(3), omit "." and substitute "; or".

**[461] Clause 3.15.3 Connection point and virtual transmission node responsibility**

After clause 3.15.3(a)(3), insert:

- (4) the *Market Participant* which has classified the *bidirectional unit connected* at that *connection point* as a *market bidirectional unit*.

**[462] Clause 3.15.4 Adjusted gross energy amounts – connection points**

Omit clause 3.15.4, excluding the heading and substitute:



- (a) For each *market connection point*, the *adjusted gross energy* amount for a *trading interval* is calculated by *AEMO* by applying the following formula:

$$\text{AGE} = \text{ACE} + \text{ASOE}$$

where:

AGE is the *adjusted gross energy* amount to be determined;

ACE is the *adjusted consumed energy* for the *market connection point* and *trading interval* calculated by *AEMO* by applying the formula in subparagraph (b)(1) or (b)(2) as applicable to the *market connection point*; and

ASOE is the *adjusted sent out energy* for the *market connection point* and *trading interval* calculated by *AEMO* by applying the formula in subparagraph (c)(1) or (c)(2) as applicable to the *market connection point*.

- (b) The *adjusted consumed energy* or ACE for a *market connection point* for a *trading interval* is calculated by *AEMO* as follows:

- (1) for a *market connection point* that is a *transmission network connection point*, ACE is equal to ME-, where ME- has the meaning in paragraph (d); and

- (2) for a *connection point* that is not a *transmission network connection point*:

$$\text{ACE} = (\text{ME-} \times \text{DLF}) + \text{UFEA}$$

where:

ACE is the *adjusted consumed energy* amount to be determined;

ME- has the meaning given in paragraph (d);

DLF is the *distribution loss factor* applicable at the *market connection point*;

UFEA is the share of unaccounted for *energy* allocated to that *market connection point* under clause 3.15.5.

- (c) The *adjusted sent out energy* or ASOE for a *market connection point* for a *trading interval* is calculated by *AEMO* as follows:

- (1) for a *market connection point* that is a *transmission network connection point*, ASOE is equal to ME+, where ME+ has the meaning given in paragraph (e); and

- (2) for a *market connection point* that is not a *transmission network connection point*:

$$\text{ASOE} = (\text{ME+} \times \text{DLF})$$

where:

ASOE is the *adjusted sent out energy* amount to be determined;

ME+ has the meaning given in paragraph (e); and

DLF is the *distribution loss factor* applicable at the *market connection point*.

- (d) ME- means, for a *connection point* for a *trading interval*, the amount of electrical *energy*, expressed as a negative value in MWh, flowing at the *connection point* in the *trading interval*, as recorded in the *metering data* in respect of that *connection point* and that *trading interval*, where the flow is away from the *transmission network connection point* to which the *connection point* is assigned.
- (e) ME+ means, for a *connection point* for a *trading interval*, the amount of electrical *energy*, expressed as a positive value in MWh, flowing at the *connection point* in the *trading interval*, as recorded in the *metering data* in respect of that *connection point* and that *trading interval*, where the flow is towards the *transmission network connection point* to which the *connection point* is assigned.

**[463] Clause 3.15.5 Unaccounted for energy adjustment – local areas**

In clause 3.15.5(a), in the definition of "ADME", omit "(ME x DLF)" and substitute "(ME- x DLF) and (ME+ x DLF)".

**[464] Clause 3.15.5 Unaccounted for energy adjustment – local areas**

In clause 3.15.5(a), omit "(and in that aggregation positive and negative *adjusted gross energy* amounts are netted out to give a positive or negative aggregate amount)".

**[465] Clause 3.15.5 Unaccounted for energy adjustment – local areas**

Omit clause 3.15.5(b) and substitute:

- (b) The unaccounted for *energy* amount determined by *AEMO* under paragraph (a) for a *local area* is to be allocated to all *market connection points* in that *local area* by calculating UFEA for the *market connection point* in accordance with paragraph (c) and including UFEA in the calculation of ACE as provided for in clause 3.15.4(b).

**[466] Clause 3.15.5 Unaccounted for energy adjustment – local areas**

Omit clause 3.15.5(c) and substitute:

- (c) The allocation of the total unaccounted for *energy* amount determined under paragraph (a) to a *market connection point* in a *local area* in accordance with paragraph (b) is determined by *AEMO* by the following formula:

$$\text{UFEA} = \text{UFE} \times (\text{DME}/\text{ADMELA})$$

where:

UFEA is the allocation of the unaccounted for *energy* amount (in MWh) for the relevant *market connection point* and *trading interval*;

UFE is the unaccounted for *energy* amounts determined under paragraph (a) for the *local area*;

DME is the amount represented by  $(\text{ME-} \times \text{DLF})$  for the relevant *market connection point* and *trading interval* where:

ME- has the meaning given in clause 3.15.4(d); and

DLF is the distribution loss factor applicable at that *market connection point*; and

ADMELA is the aggregate of the amounts represented by DME for that *trading interval* for each *market connection point* in that *local area*.

#### **[467] Clause 3.15.5 Unaccounted for energy adjustment – local areas**

Omit clause 3.15.5(d) and substitute:

- (d) *AEMO* must *publish* information to enable a *Market Participant* in a *local area* to verify the unaccounted for *energy* amounts allocated to *market connection points* of the *Market Participant* in that *local area* for each *trading interval* in accordance with a procedure developed and *published* by *AEMO*.

#### **[468] Clause 3.15.6 Spot market transactions**

In clause 3.15.6(a), omit "in relation to each *connection point*" and substitute "in relation to each *market connection point*".

#### **[469] Clause 3.15.6 Spot market transactions**

In clause 3.15.6(a), in the definition of "AGE", omit "for that *connection point*" and substitute "for that *market connection point*".

#### **[470] Clause 3.15.6A Ancillary service transactions**

In clause 3.15.6A(a0), omit the definitions "customer energy", "generator energy" and "small generator energy".

**[471] Clause 3.15.6A Ancillary service transactions**

In clause 3.15.6A(a0), in the definition "Scheduled Participant", omit "clause 3.15.6A(k)(5)" and substitute "subparagraph (k)(5)".

**[472] Clause 3.15.6A Ancillary service transactions**

In clause 3.15.6A, before paragraph (a), insert:

**Trading amount calculation for the provision of ancillary services**

**[473] Clause 3.15.6A Ancillary service transactions**

In clause 3.15.6A(a), omit "*ancillary service generating unit or enabled ancillary service load*" and substitute "*ancillary service unit*".

**[474] Clause 3.15.6A Ancillary service transactions**

In clause 3.15.6A(a), at the end of the "TA" equation, omit "for each *trading interval*".

**[475] Clause 3.15.6A Ancillary service transactions**

In clause 3.15.6A(a), in the explanation of "EA (in MW)", omit "*ancillary service generating unit or ancillary service load*" and substitute "*ancillary service unit*".

**[476] Clause 3.15.6A Ancillary service transactions**

In clause 3.15.6A(a), in the explanation of "ASP (in \$ per MW per = hour)", omit "*ancillary service generating unit or ancillary service load*" and substitute "*ancillary service unit*".

**[477] Clause 3.15.6A Ancillary service transactions**

In clause 3.15.6A(b1), before paragraph (b1), insert:

**Recovery of costs relating to non-market ancillary services**

**[478] Clause 3.15.6A Ancillary service transactions**

In clause 3.15.6A(b1), omit "RBF, AGE, AAGE, TGE, ATGE, TSGE, ATSGE, TCE," and substitute "RBF, ACE, AACE, TSOE, ATSOE, TCE and".

**[479] Clause 3.15.6A Ancillary service transactions**

Omit clause 3.15.6A(c2) and substitute:

(c2) Subject to paragraph (b1), *AEMO* must recover its liabilities under *ancillary services agreements* from *Cost Recovery Market Participants* in each *region* as follows:

- (1) in relation to *NSCAS*, in accordance with paragraphs (c8) and (c9); and

(2) in relation to *SRASs*, in accordance with paragraphs (d) and (e).

**[480] Clause 3.15.6A Ancillary service transactions**

In clause 3.15.6A(c3), in the opening paragraph, omit "*Market Customer*" and substitute "*Cost Recovery Market Participant*".

**[481] Clause 3.15.6A Ancillary service transactions**

In clause 3.15.6A(c3)(1), omit "*Market Customer*" and substitute "*Cost Recovery Market Participant*".

**[482] Clause 3.15.6A Ancillary service transactions**

In clause 3.15.6A(c3)(2), omit "*TNSCASp*" and substitute "*TNSCAS<sub>i</sub>*".

**[483] Clause 3.15.6A Ancillary service transactions**

In clause 3.15.6A(c4)(2), after "to restart *generating units*", insert "or *bidirectional units*".

**[484] Clause 3.15.6A Ancillary service transactions**

In clause 3.15.6A(c7), after "the regional benefit factors", insert "in accordance with the regional benefit ancillary services procedures and publish those factors".

**[485] Clause 3.15.6A Ancillary service transactions**

In clause 3.15.6A, before paragraph (c8), insert:

**Trading amount calculation for NSCAS cost recovery**

**[486] Clause 3.15.6A Ancillary service transactions**

Omit clause 3.15.6A(c8) and substitute:

(c8) In each *trading interval*, in relation to each *Cost Recovery Market Participant* for each *region*, an *ancillary services* transaction occurs, which results in a *trading amount* for the *Cost Recovery Market Participant* determined in accordance with the following formula:

$$TA_{i,R} = \left( \sum_{\text{for all } S} (TNSCAS_{S,i} \times RBF_{S,i,R}) \right) \times \frac{ACE_{i,R}}{AACE_{i,R}} \times -1$$

where:

subscript i                      refers to the relevant *trading interval*;

subscript R                      refers to the relevant *region*;

subscript S	=	refers to the relevant <i>NSCAS</i> ;
$TA_{i,R}$ (in \$)	=	the trading amount payable by the <i>Cost Recovery Market Participant</i> in respect of the relevant <i>region</i> and <i>trading interval</i> ;
$TNSCAS_{s,i}$ (in \$)	=	the total amount payable by <i>AEMO</i> for the provision of the relevant <i>NSCAS</i> under an <i>ancillary services agreement</i> in respect of the relevant <i>trading interval</i> ;
$RBF_{s,i,R}$ (number)	=	the latest regional benefit factor assigned to the provision of the relevant <i>NSCAS</i> under the <i>ancillary services agreement</i> in respect of the relevant <i>region</i> and <i>trading interval</i> , as determined by <i>AEMO</i> under paragraph (c7);
$ACE_{i,R}$ (in MWh)	=	the sum, for all <i>connection points</i> of the <i>Cost Recovery Market Participant</i> located in the <i>region</i> , of the <i>adjusted consumed energy</i> amount for the <i>connection point</i> for the <i>trading interval</i> ; and
$AACE_{i,R}$ (in MWh)	=	the sum, for all <i>connection points</i> located in the <i>region</i> , of the <i>adjusted consumed energy</i> amount for the <i>connection point</i> for the <i>trading interval</i> .

#### [487] Clause 3.15.6A Ancillary service transactions

Omit clause 3.15.6A(c9) and substitute:

- (c9) In each *trading interval*, in relation to each *Cost Recovery Market Participant*, an *ancillary services* transaction occurs, which results in a *trading amount* for the *Cost Recovery Market Participant* determined in accordance with the following formula:

$$TA_i = TNSCAS_i \times \left( \frac{ACE_i}{AACE_i} \right) \times -1$$

where:

subscript i	=	refers to the relevant <i>trading interval</i> ;
$TA_i$ (in \$)	=	the <i>trading amount</i> payable by the <i>Cost Recovery Market Participant</i> in respect

- of the relevant *trading interval*;
- TNSCAS<sub>i</sub> (in \$) = the sum of all amounts payable by *AEMO* for the provision of *NSCAS* under *ancillary services agreements* in respect of the relevant *trading interval* minus the sum of the *trading amounts* calculated for all *Cost Recovery Market Participants* in respect of all of the relevant *trading interval* under paragraph (c8);
- ACE<sub>i</sub> (in MWh) = the sum, for all *connection points* of the *Cost Recovery Market Participant*, of the *adjusted consumed energy* amount for the *connection point* for the *trading interval*; and
- AACE<sub>i</sub> (in MWh) = the sum, for all *connection points*, of the *adjusted consumed energy* amount for the *connection point* for the *trading interval*.

#### [488] Clause 3.15.6A Ancillary service transactions

Omit clause 3.15.6A(c10) and substitute "[Deleted]".

#### [489] Clause 3.15.6A Ancillary service transactions

In clause 3.15.6A, before paragraph (d), insert:

**Trading amount calculation for SRAS and SRAS tests cost recovery**

#### [490] Clause 3.15.6A Ancillary service transactions

Omit clause 3.15.6A(d) and substitute:

- (d) In each *trading interval*, in relation to each *Cost Recovery Market Participant* for each *region*, an ancillary services transaction occurs, which results in a *trading amount* for the *Cost Recovery Market Participant* determined in accordance with the following formula:

$$TA_{i,R} = \sum \left( \left( \frac{SRP_i \times RBF_{i,R}}{2} \right) \times \left( \frac{T\text{SOE}_{i,R}}{AT\text{SOE}_{i,R}} \right) \right) \times -1$$

where:

subscript *i* refers to the relevant *trading interval*;



subscript R	refers to the relevant <i>region</i> ;
$TA_{i,R}$ (in \$)	= the <i>trading amount</i> payable by the <i>Cost Recovery Market Participant</i> in respect of the relevant <i>trading interval</i> and <i>region</i> ;
$SRP_i$ (in \$)	= the amount payable by <i>AEMO</i> in respect of the <i>trading interval</i> under an individual <i>ancillary services agreement</i> in respect of the provision of a specific <i>SRAS</i> or, for the purposes of clause 4.3.6(q), the compensation payable by <i>AEMO</i> under clause 4.3.6(o) for the relevant <i>billing period</i> ;
$RBF_{i,R}$ (number)	= the latest regional benefit factor assigned to the provision of the relevant <i>SRAS</i> under the <i>ancillary services agreement</i> in respect of the relevant <i>region</i> and <i>trading interval</i> , as determined by <i>AEMO</i> under paragraph (c7);
$TSOE_{i,R}$ (in MWh)	= the sum, for all <i>connection points</i> of the <i>Cost Recovery Market Participant</i> located in the <i>region</i> , of the <i>adjusted sent out energy</i> amount for the <i>connection point</i> for the <i>trading interval</i> ; and
$ATSOE_{i,R}$ (in MWh)	= the sum, for all <i>connection points</i> located in the <i>region</i> , of the <i>adjusted sent out energy</i> amount for the <i>connection point</i> for the <i>trading interval</i> .

#### [491] Clause 3.15.6A Ancillary service transactions

Omit clause 3.15.6A(e) and substitute:

- (e) In each *trading interval*, in relation to each *Cost Recovery Market Participant*, for each *region*, an ancillary services transaction occurs, which results in a *trading amount* for the *Cost Recovery Market Participant* determined in accordance with the following formula:

$$TA_{i,R} = \left( \left( \frac{SRP_i \times RBE_{i,R}}{2} \right) \times \frac{TCE_{i,R}}{ATCE_{i,R}} \right)$$

where:

subscript i	refers to the relevant <i>trading interval</i> ;
subscript R	refers to the relevant <i>region</i> ;
$TA_{i,R}$ (in \$)	= the <i>trading amount</i> payable by the <i>Cost Recovery Market Participant</i> in respect of the relevant <i>region</i> and <i>trading interval</i> ;
$SRP_i$ (in \$)	= the amount payable by <i>AEMO</i> in respect of the <i>trading interval</i> under an individual <i>ancillary services agreement</i> in respect of the provision of a specific <i>SRAS</i> or, for the purposes of clause 4.3.6(q), the compensation payable by <i>AEMO</i> under clause 4.3.6(o) for the relevant <i>billing period</i> ;
$RBF_{i,R}$ (number)	= the latest regional benefit factor assigned to the provision of the relevant <i>SRAS</i> under an individual <i>ancillary services agreement</i> in respect of the relevant <i>region</i> and <i>trading interval</i> , as determined by <i>AEMO</i> under paragraph (c7); the latest regional benefit factor assigned to the provision of the relevant <i>SRAS</i> under an individual <i>ancillary services agreement</i> in respect of the relevant <i>region</i> and <i>trading interval</i> , as determined by <i>AEMO</i> under paragraph (c7);
$TCE_{i,R}$ (in MWh)	= the sum, for all <i>connection points</i> of the <i>Cost Recovery Market Participant</i> located in the <i>region</i> , of the <i>adjusted consumed energy</i> amount for the <i>connection point</i> for the <i>trading interval</i> ; and
$ATCE_{i,R}$ (in MWh)	= the sum, for all <i>connection points</i> located in the <i>region</i> , of the <i>adjusted consumed energy</i> amount for the <i>connection point</i> for the <i>trading interval</i> .

### [492] Clause 3.15.6A Ancillary service transactions

In clause 3.15.6A, before paragraph (f), insert:

**Trading amount calculation for fast raise service, slow raise service  
or delayed raise service**

### [493] Clause 3.15.6A Ancillary service transactions

Omit clause 3.15.6A(f) and substitute:

- (f) The total amount calculated by *AEMO* under paragraph (a) for each of the *very fast raise service*, *fast raise service*, *slow raise service* or *delayed raise service* in respect of each *trading interval* must be allocated to each *region* in accordance with the following procedure and the information provided under clause 3.9.2A(b). *AEMO* must:
- (1) allocate for each *region* and for the relevant *trading interval* the proportion of the total amount calculated by *AEMO* under paragraph (a) for each of the *very fast raise service*, *fast raise service*, *slow raise service* or *delayed raise service* between *global market ancillary services requirements* and *local market ancillary service requirement* pro-rata to the respective marginal prices for each such service;
  - (2) calculate for the relevant *trading interval* the sum of the costs of acquiring the *global market ancillary service requirements* for all *regions* and the sum of the costs of acquiring each *local market ancillary service requirement* for all *regions*, as determined pursuant to subparagraph (f)(1); and
  - (3) allocate for the relevant *trading interval* the sum of the costs of the *global market ancillary service requirement* and each *local market ancillary service requirement* calculated in subparagraph (f)(2) to each *region* as relevant to that requirement pro-rata to the aggregate of the *adjusted sent out energy* for all *Cost Recovery Market Participants* in each *region* during the *trading interval*.
- (f1) In each *trading interval*, in relation to each *Cost Recovery Market Participant*, for each *region*, an ancillary services transaction occurs, which results in a *trading amount* for that *Cost Recovery Market Participant* determined in accordance with the following formula:

$$TA = RTCRSP \times \left( \frac{TSOE}{RATSOE} \right) \times -1$$

where:

$$TA \text{ (in \$)} =$$

the *trading amount* payable by the *Cost Recovery Market Participant* in respect of the relevant *region* and *trading interval*;

RTCRSP (in \$) = the sum of:

- (1) the *global market ancillary service requirement* cost for that *region*, for the relevant *trading interval*, as determined pursuant to paragraph (f)(3); and
- (2) all *local market ancillary service requirement* costs for that *region*, for the relevant *trading interval*, as determined pursuant to paragraph (f)(3);

TSOE (in MWh) = the sum, for all *connection points* of the *Cost Recovery Market Participant* located in the *region*, of the *adjusted sent out energy* for the *trading interval*; and

RATSOE (in MWh) = the sum, for all *connection points* located in the *region*, of the *adjusted sent out energy* for the *trading interval*.

#### **[494] Clause 3.15.6A Ancillary service transactions**

In clause 3.15.6A, before paragraph (g), insert:

**Trading amount calculation for fast lower service, slow lower service or delayed lower service**

#### **[495] Clause 3.15.6A Ancillary service transactions**

Omit clause 3.15.6A(g) and substitute:

- (g) The total amount calculated by *AEMO* under paragraph (a) for each of the *very fast lower service*, *fast lower service*, *slow lower service* or *delayed lower service* in respect of each the *trading interval* must be allocated to each *region* in accordance with the following procedure and the information provided under clause 3.9.2A(b). *AEMO* must:
  - (1) allocate for each *region* and for the relevant *trading interval* the proportion of the total amount calculated by *AEMO* under paragraph (a) for each of the *very fast lower service*, *fast lower service*, *slow lower service* or *delayed lower service* between *global market ancillary service requirements* and *local market*

*ancillary service requirement* pro rata to the respective marginal prices of each such service;

- (2) calculate for the relevant *trading interval* the sum of the costs of acquiring the *global market ancillary service requirements* for all *regions* and the sum of the costs of acquiring each *local market ancillary service requirement* for all *regions*, as determined pursuant to subparagraph (g)(1); and
  - (3) allocate for the relevant *trading interval* the sum of the costs of the *global market ancillary service requirement* and each *local market ancillary service requirement* calculated in subparagraph (g)(2) to each *region* as relevant to that requirement pro-rata to the aggregate of the *adjusted consumed energy* amounts for all *Cost Recovery Market Participants* in each *region* during the *trading interval*.
- (g1) In each *trading interval*, in relation to each *Cost Recovery Market Participant*, for each *region*, an ancillary services transaction occurs, which results in a *trading amount* for that *Cost Recovery Market Participant* determined in accordance with the following formula:

$$TA = RTCLSP \times \frac{TCE}{RATCE} \times -1$$

where:

- TA (in \$) = the *trading amount* payable by the *Cost Recovery Market Participant* in respect of the relevant *region* and *trading interval*;
- RTCLSP (in \$) = the sum of:
- (1) the *global market ancillary service requirement* cost for that *region*, for the relevant *trading interval*, as determined pursuant to paragraph (g)(3); and
  - (2) all *local market ancillary service requirement* costs for that *region*, for the relevant *trading interval*, as determined pursuant to paragraph (g)(3);
- TCE (in MWh) = the sum, for all *connection points* of the *Cost Recovery Market Participant* located in the *region*, of the *adjusted consumed energy* amount for the

*connection point* for the *trading interval*;  
and

RATCE (in MWh) = the sum, for all *connection points* located in the *region*, of the *adjusted consumed energy* amounts for the *trading interval*.

**[496] Clause 3.15.6A Ancillary service transactions**

In clause 3.15.6A(i)(1), omit each occasion of "*Market Generator, Market Small Generation Aggregator or Market Customer*" and substitute "*Cost Recovery Market Participant*".

**[497] Clause 3.15.6A Ancillary service transactions**

In clause 3.15.6A(i)(1), omit the explanation of "TA (in \$)" and substitute "the *trading amount* payable by the *Cost Recovery Market Participant* in respect of the relevant *region* and *trading interval*";

**[498] Clause 3.15.6A Ancillary service transactions**

In clause 3.15.6A(i)(1), in the explanation of "MPF (a number)", omit "*Market Generator, Market Small Generation Aggregator or Market Customer*" and substitute "*Cost Recovery Market Participant*".

**[499] Clause 3.15.6A Ancillary service transactions**

In clause 3.15.6A(i)(1), in the explanation of "AMPF (a number)", omit "*Market Participants*" and substitute "*Cost Recovery Market Participants*".

**[500] Clause 3.15.6A Ancillary service transactions**

In clause 3.15.6A(i)(2), omit "in relation to".

**[501] Clause 3.15.6A Ancillary service transactions**

In clause 3.15.6A(i)(2), omit each occasion of "*Market Customer*" and substitute "*Cost Recovery Market Participant*".

**[502] Clause 3.15.6A Ancillary service transactions**

In clause 3.15.6A(i)(2), omit the explanation of "TA (in \$)" and substitute "the *trading amount* payable by the *Cost Recovery Market Participant* in respect of the relevant *region* and *trading interval*";

**[503] Clause 3.15.6A Ancillary service transactions**

In clause 3.15.6A(i)(2), in the explanation of "MPF (a number)", omit "*Market Customers*" and substitute "*Cost Recovery Market Participants*".

**[504] Clause 3.15.6A Ancillary service transactions**

In clause 3.15.6A(i)(2), in the explanation of "AMPF (a number)", omit "*Market Participants*" and substitute "*Cost Recovery Market Participants*".

**[505] Clause 3.15.6A Ancillary service transactions**

In clause 3.15.6A(i)(2), in the explanation of "TCE (in MWh)", omit "*customer energy for the Market Customer*" and substitute "*adjusted consumed energy* amounts for the *Cost Recovery Market Participant*".

**[506] Clause 3.15.6A Ancillary service transactions**

In clause 3.15.6A(i)(2), in the explanation of "ATCE ( in MWh)", omit "*customer energy figures for all Market Customers*" and substitute "the *adjusted consumed energy* amounts for all *Cost Recovery Market Participants*".

**[507] Clause 3.15.6A Ancillary service transactions**

In clause 3.15.6A(i)(2), omit the note.

**[508] Clause 3.15.6A Ancillary service transactions**

In clause 3.15.6A(j)(1), omit "*Market Participant*" and substitute "*Cost Recovery Market Participant*".

**[509] Clause 3.15.6A Ancillary service transactions**

In clause 3.15.6A(k)(1), omit each occasion of "*Market Participant*" and substitute "*Cost Recovery Market Participant*".

**[510] Clause 3.15.6A Ancillary service transactions**

In clause 3.15.6A(k)(2), omit "*Market Customers*" and substitute "*Cost Recovery Market Participants*".

**[511] Clause 3.15.6A Ancillary service transactions**

Omit clause 3.15.6A(k)(3) and substitute:

- (3) for the purpose of paragraph (j)(2), the contribution factor determined for a group of *regions* for all *Cost Recovery Market Participants* that do not have metering to allow the individual contribution of that *Cost Recovery Market Participants* to the aggregate need for *regulation services* to be assessed, must be divided between *regions* in proportion to the aggregate of the *adjusted consumed energy* amounts for the *regions*;



**[512] Clause 3.15.6A Ancillary service transactions**

In clause 3.15.6A(k)(4), omit "*Market Participant's*" and substitute "*Cost Recovery Market Participant's*".

**[513] Clause 3.15.6A Ancillary service transactions**

In clause 3.15.6A(k)(5), omit "*scheduled load, ancillary service generating unit or ancillary service load*" and substitute "*scheduled bidirectional unit, scheduled load or ancillary service unit*".

**[514] Clause 3.15.6A Ancillary service transactions**

In clause 3.15.6A(k)(6), omit "*total customer energy*" and substitute "*total load*".

**[515] Clause 3.15.6A Ancillary service transactions**

In clause 3.15.6A(nb), omit "*Market Participants*" and substitute "*Cost Recovery Market Participants*".

**[516] Clause 3.15.6AA Substitution of regional customer energy values for insufficient net demand recovery periods**

Omit clause 3.15.6AA and substitute "[Deleted]".

**[517] Clause 3.15.7 Payment to Directed Participants**

In clause 3.15.7(c), in the explanation of "AMP", after "*Semi-Scheduled Generators*", insert "*Scheduled Integrated Resource Providers*".

**[518] Clause 3.15.7 Payment to Directed Participants**

In clause 3.15.7(d), omit each occasion of "*dispatch offer*".

**[519] Clause 3.15.7A Payment to Directed Participants for services other than energy and market ancillary services**

In clause 3.15.7A(b)(2), omit "*scheduled plant or market generating unit*" and substitute "*directed resource*".

**[520] Clause 3.15.7A Payment to Directed Participants for services other than energy and market ancillary services**

In clause 3.15.7A(g)(2), omit "*a scheduled generating unit, semi-scheduled generating unit, scheduled load, ancillary service generating unit, market generating unit, ancillary*

*services load or scheduled network services*, as the case may be," and substitute "its *directed resource*".

**[521] Clause 3.15.7A Payment to Directed Participants for services other than energy and market ancillary services**

In clause 3.15.7A(g)(3), omit "*scheduled generating unit, semi-scheduled generating unit, scheduled load, ancillary service generating unit, market generating unit, ancillary services load or scheduled network services*, as the case may be," and substitute "*directed resource*".

**[522] Clause 3.15.7A Payment to Directed Participants for services other than energy and market ancillary services**

In clause 3.15.7A(3)(i), omit "*generating unit, or scheduled network services*" and substitute "*directed resource*".

**[523] Clause 3.15.7A Payment to Directed Participants for services other than energy and market ancillary services**

In clause 3.15.7A(3)(ii), omit "*generating unit, load or scheduled network services*" and substitute "*directed resource*".

**[524] Clause 3.15.7A Payment to Directed Participants for services other than energy and market ancillary services**

In clause 3.15.7A(3)(iii), omit "*generating unit, load or scheduled network services*" and substitute "*directed resource*".

**[525] Clause 3.15.7A Payment to Directed Participants for services other than energy and market ancillary services**

In clause 3.15.7A(3)(iv), omit each occasion of "*generating unit, load or scheduled network services*", insert "*directed resource*".

**[526] Clause 3.15.7A Payment to Directed Participants for services other than energy and market ancillary services**

In clause 3.15.7A(3)(v), omit each occasion of "*generating unit, load or scheduled network services*" and substitute "*directed resource*".

**[527] Clause 3.15.7A Payment to Directed Participants for services other than energy and market ancillary services**

In clause 3.15.7A(3)(vi), omit each occasion of "*generating unit, load or scheduled network services*" and substitute "*directed resource*".

**[528] Clause 3.15.7B Claim for additional compensation by Directed Participants**

In clause 3.15.7B(a)(1), omit "a *scheduled generating unit, semi-scheduled generating unit or scheduled network services*, as the case may be," and substitute "its *directed resource*".

**[529] Clause 3.15.7B Claim for additional compensation by Directed Participants**

In clause 3.15.7B(a3), omit "that *scheduled generating unit, semi-scheduled generating unit or scheduled network services* (as the case may be)" and substitute "*directed resource*".

**[530] Clause 3.15.7B Claim for additional compensation by Directed Participants**

In clause 3.15.7B(a3)(1), omit "*generating unit or scheduled network services*" and substitute "*directed resource*".

**[531] Clause 3.15.7B Claim for additional compensation by Directed Participants**

In clause 3.15.7B(a3)(2), omit "*generating unit or scheduled network services*" and substitute "*directed resource*".

**[532] Clause 3.15.7B Claim for additional compensation by Directed Participants**

In clause 3.15.7B(a3)(3), omit "*generating unit or scheduled network services*" and substitute "*directed resource*".

**[533] Clause 3.15.7B Claim for additional compensation by Directed Participants**

Omit clause 3.15.7B(a3)(4) and substitute:

- (4) acceleration costs of maintenance work in connection with the relevant *directed resource*, where such acceleration costs are incurred to enable the *Directed Participant* to comply with the *direction*;

**[534] Clause 3.15.7B Claim for additional compensation by Directed Participants**

Omit clause 3.15.7B(a3)(5) and substitute:

- (5) delay costs for maintenance work in connection with the relevant *directed resource*, where such delay costs are incurred to enable the *Directed Participant* to comply with the *direction*;

**[535] Clause 3.15.7B Claim for additional compensation by Directed Participants**

Omit clause 3.15.7B(a3)(6) and substitute:

- (6) other costs incurred in connection with the relevant *directed resource*, where such costs are incurred to enable the *Directed Participant* to comply with the *direction*; and

**[536] Clause 3.15.7B Claim for additional compensation by Directed Participants**

In clause 3.15.7B(a3)(7), omit "*generating unit or scheduled network services*" and substitute "*directed resource*".

**[537] Clause 3.15.8 Funding of Compensation for directions**

In clause 3.15.8(a0), omit the definitions of "**customer energy**", "**generator energy**" and "**small generator energy**".

**[538] Clause 3.15.8 Funding of Compensation for directions**

Omit clause 3.15.8(b) and the second **Note**, but retaining the civil penalty note, and substitute:

- (b) *AEMO* must, in accordance with the *intervention settlement timetable*, calculate a figure for each *Cost Recovery Market Participant* in each *region* applying the following formula:

$$CRP = \frac{E}{\sum E} \times \frac{RB}{\sum RB} \times CR$$

where:

CRP is the amount payable or receivable by a *Cost Recovery Market Participant* pursuant to this paragraph (b);

E is the sum of the *Cost Recovery Market Participant's adjusted consumed energy* amounts at its *market connection points* in the *region*, in respect of the relevant *intervention price trading intervals* excluding *adjusted consumed energy* of *scheduled loads* or *scheduled bidirectional units*, in respect of which the *Cost Recovery Market*

*Participant* submitted a *dispatch bid* for the relevant *intervention price trading interval* in that *region*; and

RB is the regional benefit determined by *AEMO* pursuant to clause 3.15.8(b1) at the time of issuing the *direction*.

CR is the *compensation recovery amount*.

### **[539] Clause 3.15.8 Funding of Compensation for directions**

Omit clause 3.15.8(c) and substitute:

- (c) If the figure calculated for a *Cost Recovery Market Participant* under paragraph (b) is negative, the absolute value of that amount is the amount payable by the *Cost Recovery Market Participant* to *AEMO* pursuant to paragraph (b).

### **[540] Clause 3.15.8 Funding of Compensation for directions**

Omit clause 3.15.8(d) and substitute:

- (d) Subject to clause 3.15.22, if the figure calculated for a *Cost Recovery Market Participant* under paragraph (b) is positive, such amount is the amount receivable by the *Cost Recovery Market Participant* from *AEMO* pursuant to paragraph (b), subject to the provisions of clause 3.15.22.

### **[541] Clause 3.15.8 Funding of Compensation for directions**

In clause 3.15.8(e)(2)(i), omit "*Market Customers*" and substitute "*Affected Load Participants*".

### **[542] Clause 3.15.8 Funding of Compensation for directions**

In clause 3.15.8(f)(1), omit "(f), (g), (h)" and substitute "(f), (f1), (g), (g1), (h)".

### **[543] Clause 3.15.8 Funding of Compensation for directions**

In clause 3.15.8(f)(2), omit "TNSCASP, TSRP," and substitute "TNSCAS,".

### **[544] Clause 3.15.8 Funding of Compensation for directions**

Omit clause 3.15.8(f)(3) and substitute:

- (3) for each other defined term in the relevant formula, a reference to a *trading interval* in the definition is to be read as a reference to all of the *trading intervals* during which the *direction* applied.

### **[545] Clause 3.15.8 Funding of Compensation for directions**

In clause 3.15.8(f), omit the **Note**.

**[546] Clause 3.15.8 Funding of Compensation for directions**

Omit clause 3.15.8(g), including the **Note**, and substitute:

- (g) Any compensation payable by *AEMO* under clause 3.12.2 and 3.15.7 not recovered under paragraph (b) and paragraph (e) must be recovered from *Cost Recovery Market Participants*. *AEMO* must, in accordance with the *intervention settlement timetable*, calculate a figure for each *Cost Recovery Market Participants* in each *region* applying the following formula:

$$CRP = \frac{T_{SOE} - T_{CE}}{R_{ATSOE} - R_{ATCE}} \times \frac{RB}{\sum RB} \times CRA \times -1$$

where:

CRP (in \$)	=	the amount payable or receivable by a <i>Cost Recovery Market Participant</i> under this paragraph (g);
T <sub>SOE</sub> (in MWh)	=	the sum, for all <i>connection points</i> of the <i>Cost Recovery Market Participant</i> located in the <i>region</i> , of the <i>adjusted sent out energy</i> in all relevant <i>intervention price trading intervals</i> ;
T <sub>CE</sub> (in MWh)	=	the sum, for all <i>connection points</i> of the <i>Cost Recovery Market Participant</i> located in the <i>region</i> , of the <i>adjusted consumed energy</i> amounts in all relevant <i>intervention price trading intervals</i> ;
R <sub>ATSOE</sub> (in MWh)	=	the sum, for all <i>connection points</i> located in the <i>region</i> of all <i>Cost Recovery Market Participant</i> , of the <i>adjusted consumed energy</i> amounts in all relevant <i>intervention price trading intervals</i> ;
R <sub>ATCE</sub> (in MWh)	=	the sum, for all <i>connection points</i> located in the <i>region</i> of all <i>Cost Recovery Market Participant</i> , of the <i>adjusted consumed energy</i> amounts in all relevant <i>intervention price trading intervals</i> ;
RB (number)	=	the regional benefit determined by <i>AEMO</i> under paragraph (b1) at the

time of issuing the *direction*; and

CRA = the *compensation recovery amount*.

**[547] Clause 3.15.8A Funding of compensation for market suspension pricing schedule periods**

In clause 3.15.8A(a0), omit "clause 3.15.8A(f)" and substitute "paragraph (f)".

**[548] Clause 3.15.8A Funding of compensation for market suspension pricing schedule periods**

Omit clause 3.15.8A(b), including the **Note**, and substitute:

- (b) *AEMO* must, in accordance with the *intervention settlement timetable*, calculate a figure for each *Cost Recovery Market Participant* in each *region* applying the following formula:

$$CRP = \frac{E}{\sum E} \times \frac{RB}{\sum RB} \times CRA$$

where:

CRP is the amount payable by a *Cost Recovery Market Participant* pursuant to this paragraph (b).

E is the sum of the *Cost Recovery Market Participant's adjusted consumed energy* amounts at each *connection point* for which the *Cost Recovery Market Participant* is *financially responsible* in the *region* in respect of the *trading intervals* that occur during a *market suspension pricing schedule period*.

RB is the regional benefit determined by *AEMO* pursuant to paragraph (e).

CRA is the *market suspension compensation recovery amount*.

**[549] Clause 3.15.8A Funding of compensation for market suspension pricing schedule periods**

In clause 3.15.8A(c), omit each occasion of "*Market Customer*" and substitute "*Cost Recovery Market Participant*".

**[550] Clause 3.15.8A Funding of compensation for market suspension pricing schedule periods**

In clause 3.15.8A(c), omit "clause 3.15.8A(b)" and substitute "paragraph (b)".



**[551] Clause 3.15.8A Funding of compensation for market suspension pricing schedule periods**

Omit clause 3.15.8A(d) and substitute:

- (d) If the figure calculated for a *Cost Recovery Market Participant* under paragraph (b) is positive, then the amount payable by the *Cost Recovery Market Participant* to *AEMO* is deemed to be zero.

**[552] Clause 3.15.8A Funding of compensation for market suspension pricing schedule periods**

In clause 3.15.8A(g), omit the **Note**.

**[553] Clause 3.15.8A Funding of compensation for market suspension pricing schedule periods**

Omit clause 3.15.8A(g)(1) and substitute:

- (1) subject to subparagraphs (2) and (3), *AEMO* must use the appropriate formula set out in clause 3.15.6A(c8), (c9), (d), (e), (f), (f1), (g), (g1), (h) or (i) depending on which *market ancillary service* was provided during a *market suspension pricing schedule period*;

**[554] Clause 3.15.8A Funding of compensation for market suspension pricing schedule periods**

In clause 3.15.8A(g)(2), omit "TNSCASP, TSRP," and substitute "TNSCAS,".

**[555] Clause 3.15.8A Funding of compensation for market suspension pricing schedule periods**

Omit clause 3.15.8A(g)(3) and substitute:

- (3) for each other defined term in the relevant formula, a reference to a *trading interval* in the definition is to be read as a reference to 'all of the *trading intervals* within the *market suspension pricing schedule period* in which the *Market Suspension Compensation Claimant* provided *market ancillary services*'.

**[556] Clause 3.15.9 Reserve settlements**

In clause 3.15.9(a), omit "*Market Customers*" and substitute "*Cost Recovery Market Participants*".

**[557] Clause 3.15.9 Reserve settlements**

Omit clause 3.15.9(b)(2)(ii) and substitute:

- (ii) as a result of a *scheduled generating unit, scheduled bidirectional unit, scheduled network service, wholesale demand response unit or scheduled load* under a *scheduled reserve contract being dispatched or generating units, bidirectional units or other plant* under an *unscheduled reserve contract being activated*; or

**[558] Clause 3.15.9 Reserve settlements**

In clause 3.15.9(d)(4), omit "*Market Customers*" and substitute "*Affected Load Participants*".

**[559] Clause 3.15.9 Reserve settlements**

In clause 3.15.9(d), in the last paragraph, omit "*Market Customers*" and substitute "*Cost Recovery Market Participants*".

**[560] Clause 3.15.9 Reserve settlements**

In clause 3.15.9(e)(2), omit "*Market Customers*" and substitute "*Affected Load Participants*".

**[561] Clause 3.15.9 Reserve settlements**

In clause 3.15.9(e), below subparagraph (3), omit "*Market Customer*" and substitute "*Cost Recovery Market Participant*".

**[562] Clause 3.15.9 Reserve settlements**

In clause 3.15.9(e), below subparagraph (3), omit the existing equation and substitute:

$$CRP = \left[ \frac{(E_{UC} \times UC)}{\sum E_{UC}} \right] + \left[ \frac{(E_{OC} \times OC)}{\sum E_{OC}} \right]$$

**[563] Clause 3.15.9 Reserve settlements**

In clause 3.15.9(e)(3), omit the paragraph of "*MCP*" in its entirety and substitute:

CRP is the amount payable by a *Cost Recovery Market Participant* for a *region* in respect of a *billing period*;

**[564] Clause 3.15.9 Reserve settlements**

In clause 3.15.9(e)(3), in the explanation of "*UC*", in paragraph 3, omit "*Market Customers*" and substitute "*Affected Load Participants*".

**[565] Clause 3.15.9 Reserve settlements**

In clause 3.15.9(e), in the explanation of "*E<sub>UC</sub>*", omit "*Market Customer's adjusted gross energy*" and substitute "*Cost Recovery Market Participant's adjusted consumed energy*".

**[566] Clause 3.15.9 Reserve settlements**

In clause 3.15.9(e), in the explanation of "E<sub>UC</sub>", omit "*Market Customer*" and substitute "*Cost Recovery Market Participant*".

**[567] Clause 3.15.9 Reserve settlements**

In clause 3.15.9(e), in the explanation of "E<sub>UC</sub>", omit "*any loads*" and substitute "*adjusted consumed energy of any scheduled loads or scheduled bidirectional units*".

**[568] Clause 3.15.9 Reserve settlements**

In clause 3.15.9(e), in the explanation of "E<sub>OC</sub>", omit "*Market Customer's adjusted gross energy*" and substitute "*Cost Recovery Market Participant's adjusted consumed energy*".

**[569] Clause 3.15.9 Reserve settlements**

In clause 3.15.9(e), in the explanation of "E<sub>OC</sub>", omit "*any loads*" and substitute "*adjusted consumed energy of any scheduled loads or scheduled bidirectional units*".

**[570] Clause 3.15.9 Reserve settlements**

In clause 3.15.9(e), in the explanation of "E<sub>OC</sub>", omit "*Market Customer*" and substitute "*Cost Recovery Market Participant*".

**[571] Clause 3.15.9 Reserve settlements**

In clause 3.15.9(f), all references to "*Market Customer*" and substitute "*Cost Recovery Market Participant*".

**[572] Clause 3.15.9 Reserve settlements**

In clause 3.15.9(h), omit "*and Scheduled Generators*".

**[573] Clause 3.15.10 Administered price cap or administered floor price compensation payments**

In clause 3.15.10(a), omit "*to a Scheduled Generator, Non-Scheduled Generator, Market Participant, Scheduled Network Service Provider, Demand Response Service Provider or Ancillary Service Provider*".

**[574] Clause 3.15.10 Administered price cap or administered floor price compensation payments**

In clause 3.15.10(a), omit "*Market Customer*" and substitute "*Cost Recovery Market Participant*".

**[575] Clause 3.15.10 Administered price cap or administered floor price compensation payments**

In clause 3.15.10(b), omit "of the *Market Customers* referred to in clause 3.15.10(a)" and substitute "*Cost Recovery Market Participant*".

**[576] Clause 3.15.10 Administered price cap or administered floor price compensation payments**

In clause 3.15.10(b), in the explanation of "APC", omit "to *Scheduled Generators, Non-Scheduled Generators, Market Participants, Scheduled Network Service Providers* or *Ancillary Service Providers*".

**[577] Clause 3.15.10 Administered price cap or administered floor price compensation payments**

In clause 3.15.10(b), omit the explanation of " $E_i$ " and substitute:

$E_i$  is the sum of all of the *Cost Recovery Market Participant's adjusted consumed energy* amounts in respect of each *trading interval* in the *eligibility period* and each *connection point* for which the *Cost Recovery Market Participant* is *financially responsible* in the cost recovery region.

**[578] Clause 3.15.10 Administered price cap or administered floor price compensation payments**

In clause 3.15.10(c), omit "to a *Scheduled Generator, Non-Scheduled Generator, Market Participant, Scheduled Network Service Providers* or *Ancillary Service Provider*".

**[579] Clause 3.15.10 Administered price cap or administered floor price compensation payments**

In clause 3.15.10(c), omit "*Market Participants*" and substitute "*Cost Recovery Market Participants*".

**[580] Clause 3.15.10C Intervention and Market Suspension Pricing Schedule Period Settlements**

In clause 3.15.10C(a)(1), omit "*Market Customer*" and substitute "*Affected Load Participant*".

**[581] Clause 3.15.10C Intervention and Market Suspension Pricing Schedule Period Settlements**

In clause 3.15.10C(a)(3), omit "*Market Customer*" and substitute "*Cost Recovery Market Participant*".

**[582] Clause 3.15.10C Intervention and Market Suspension  
Pricing Schedule Period Settlements**

In clause 3.15.10C(a)(3)(iii), omit "*Market Customers*" and substitute "*Affected Load Participants*".

**[583] Clause 3.15.10C Intervention and Market Suspension  
Pricing Schedule Period Settlements**

In clause 3.15.10C(a)(4), omit "and *Market Small Generation Aggregator*" and substitute ", *Integrated Resource Provider* and *Small Resource Aggregator*".

**[584] Clause 3.15.10C Intervention and Market Suspension  
Pricing Schedule Period Settlements**

In clause 3.15.10C(a)(4), omit "TNSCASP, TSRP," and substitute "TNSCAS<sub>i</sub>".

**[585] Clause 3.15.10C Intervention and Market Suspension  
Pricing Schedule Period Settlements**

In clause 3.15.10C(a)(4A), omit "*Market Customer*" and substitute "*Cost Recovery Market Participant*".

**[586] Clause 3.15.10C Intervention and Market Suspension  
Pricing Schedule Period Settlements**

In clause 3.15.10C(a1)(2), omit "*Market Customer*" and substitute "*Cost Recovery Market Participant*".

**[587] Clause 3.15.10C Intervention and Market Suspension  
Pricing Schedule Period Settlements**

In clause 3.15.10C(b)(2), omit all references to "*Market Customers*" and substitute "*Affected Load Participant*".

**[588] Clause 3.15.10C Intervention and Market Suspension  
Pricing Schedule Period Settlements**

In clause 3.15.10C(b)(4), omit all references to "*Market Customer*" and substitute "*Cost Recovery Market Participant*".

**[589] Clause 3.15.10C Intervention and Market Suspension  
Pricing Schedule Period Settlements**

In clause 3.15.10C(b)(5), omit all references to "*Market Customer*" and substitute "*Cost Recovery Market Participant*".

**[590] Clause 3.15.10C Intervention and Market Suspension  
Pricing Schedule Period Settlements**

In clause 3.15.10C(b)(6), omit "*Market Customer*" and substitute "*Affected Load Participant*".

**[591] Clause 3.15.10C Intervention and Market Suspension  
Pricing Schedule Period Settlements**

In clause 3.15.10C(b)(7), in the opening paragraph, omit "*Market Customer, Market Generator and Market Small Generation Aggregator*" and substitute "*Cost Recovery Market Participant*".

**[592] Clause 3.15.10C Intervention and Market Suspension  
Pricing Schedule Period Settlements**

In clause 3.15.10C(b)(7)(i), omit "*Market Customer, Market Generator and Market Small Generation Aggregator, as the case may be,*" and substitute "*Cost Recovery Market Participant*".

**[593] Clause 3.15.10C Intervention and Market Suspension  
Pricing Schedule Period Settlements**

In clause 3.15.10C(b)(7)(i), omit "TNSCASP, TSRP," and substitute "TNSCAS;".

**[594] Clause 3.15.10C Intervention and Market Suspension  
Pricing Schedule Period Settlements**

In clause 3.15.10C(b)(7)(ii), omit "*Market Customer, Market Generator or Market Small Generation Aggregator*" and substitute "*Cost Recovery Market Participant*".

**[595] Clause 3.15.10C Intervention and Market Suspension  
Pricing Schedule Period Settlements**

In clause 3.15.10C(b)(8), omit "*Registered Participants*" and substitute "*Cost Recovery Market Participants*".

**[596] Clause 3.15.10C Intervention and Market Suspension  
Pricing Schedule Period Settlements**

In clause 3.15.10C(c)(3)(ii), omit "*Market Customer*" and substitute "*Cost Recovery Market Participant*".

**[597] Clause 3.15.10C Intervention and Market Suspension  
Pricing Schedule Period Settlements**

In clause 3.15.10C(c)(3)(ii)(A), omit "MCP" and substitute "CRP".

**[598] Clause 3.15.10C Intervention and Market Suspension  
Pricing Schedule Period Settlements**

In clause 3.15.10C(c)(3)(ii)(A), omit "*Market Customer*" and substitute "*Cost Recovery Market Participant*".

**[599] Clause 3.15.10C Intervention and Market Suspension  
Pricing Schedule Period Settlements**

In clause 3.15.10C(c)(3)(iii), omit "*Market Customer, Market Generator and Market Small Generation Aggregator*" and substitute "*Cost Recovery Market Participant*".

**[600] Clause 3.15.10C Intervention and Market Suspension  
Pricing Schedule Period Settlements**

In clause 3.15.10C(c)(3)(iii)(B), omit "TNSCASP, TSRP," and substitute "TNSCAS<sub>i</sub>".

**[601] Clause 3.15.21 Default procedure**

Omit clause 3.15.21(c2)(2)(ii) and substitute:

- (ii) the potential impact of the suspension of the registration of a *Market Participant* on the *reliability* of the *power system*; and

**[602] Clause 3.15.21 Default procedure**

Omit clause 3.15.21(c2)(2)(iii) and substitute "[Deleted]".

**[603] Clause 3.15.21 Default procedure**

In clause 3.15.21(i)(1), omit "or *dispatch offer*".

**[604] Clause 3.15.21 Default procedure**

In clause 3.15.21(i), in the last paragraph, omit "*market loads*" and substitute "*market connection points*".

**[605] Clause 3.16.1 Establishment of Participant  
compensation fund**

In clause 3.16.1(a), after "*Semi-Scheduled Generators*", insert ", *Scheduled Integrated Resource Providers*".

**[606] Clause 3.16.1 Establishment of Participant  
compensation fund**

Omit clause 3.16.1(g) and substitute:



- (g) A person is not entitled to a refund of any contributions made to the *Participant compensation fund* upon ceasing to be a *Scheduled Generator*, *Semi-Scheduled Generator*, *Scheduled Integrated Resource Provider* or *Scheduled Network Service Provider*.

**[607] Clause 3.16.1 Establishment of Participant compensation fund**

Omit clause 3.16.1(h) and substitute "[Deleted]".

**[608] Clause 3.16.2 Dispute resolution panel to determine compensation**

Omit clause 3.16.2(d) and substitute:

- (d) A *Scheduled Generator*, *Semi-Scheduled Generator* or *Scheduled Integrated Resource Provider* who receives an instruction in respect of a *scheduled generating unit*, *semi-scheduled generating unit* or *scheduled bidirectional unit* (as the case may be) to operate at a *loading level* different to the *loading level* at which it would have been instructed to operate had the *scheduling error* not occurred, will be entitled to receive in compensation an amount determined by the *dispute resolution panel*.

**[609] Clause 3.16.2 Dispute resolution panel to determine compensation**

In clause 3.16.2(f), omit "or *Semi-Scheduled Generator*" and substitute ", *Semi-Scheduled Generator* or *Scheduled Integrated Resource Provider*".

**[610] Clause 3.16.2 Dispute resolution panel to determine compensation**

In clause 3.16.2(f), after "in respect of a *generating unit*", insert "or *bidirectional unit*".

**[611] Clause 3.16.2 Dispute resolution panel to determine compensation**

In clause 3.16.2(f), omit "*dispatch offer price*" and substitute "*dispatch bid price*".

**[612] Clause 3.16.2 Dispute resolution panel to determine compensation**

In clause 3.16.2(g), omit "*network dispatch offer price*" and substitute "*dispatch bid price*".

**[613] Clause 3.16.2 Dispute resolution panel to determine compensation**

In clause 3.16.2(h)(1), omit "or *semi-scheduled generating unit*" and substitute ", *semi-scheduled generating unit* or *scheduled bidirectional unit*".

**[614] Clause 3.18.2 Auctions and eligible persons**

In clause 3.18.2(b)(1), after " a *Generator*", insert ", an *Integrated Resource Provider*".

**[615] Clause 3.18.5 Settlement residue committee**

In clause 3.18.5(c)(2), after "*Generators*", insert "or *Integrated Resource Providers*".

**[616] Clause 3.20.3 Reserve contracts**

In clause 3.20.3(a)(1), after "*scheduled generating units*", insert "*scheduled bidirectional units*".

**[617] Clause 3.20.3 Reserve contracts**

In clause 3.20.3(g), after "*scheduled generating units*", insert "*scheduled bidirectional units*".

**[618] Clause 3.20.3 Reserve contracts**

In clause 3.20.3(g), omit "*dispatch offers* or".

**[619] Clause 3.20.3 Reserve contracts**

In clause 3.20.3(h), omit "*dispatch offers* or".

**[620] Clause 3.20.3 Reserve contracts**

In clause 3.20.3(l), omit "a *unscheduled reserve contract*" and substitute "an *unscheduled reserve contract*".

**[621] Clause 3.20.4 Dispatch pricing methodology for unscheduled reserve contracts**

In clause 3.20.4(a), omit "or *loads*" and substitute ", *bidirectional units* or other *connected plant*".

**[622] Clause 3.20.6 Reporting on RERT by AEMO**

In clause 3.20.6(f)(2), after "each *Market Customer*", insert "or *Integrated Resource Provider*".

**[623] Clause 3.20.6 Reporting on RERT by AEMO**

Omit clause 3.20.6(g)(2) and substitute:

- (2) each occasion during the *financial year* when a *scheduled resource* under a *scheduled reserve contract* was *dispatched* or *unscheduled reserves* available under an *unscheduled reserve contract* were *activated*; and

**[624] Clause 3.20.7 AEMO's exercise of the RERT**

Omit clause 3.20.7(b) and substitute:

- (b) *AEMO* must follow the relevant procedures in this rule prior to *dispatching a scheduled resource* the subject of a *scheduled reserve contract* or *activating unscheduled reserves* it has available under an *unscheduled reserve contract* unless it is not reasonably practicable to do so.

**[625] Clause 3.20.7 AEMO's exercise of the RERT**

Omit clause 3.20.7(c) and substitute:

- (c) Subject to paragraph (b), *AEMO* must only *dispatch a scheduled resource* the subject of a *scheduled reserve contract* or *activate unscheduled reserves* it has available under an *unscheduled reserve contract* in accordance with the procedures developed pursuant to paragraph (e).

**[626] Clause 3.20.7 AEMO's exercise of the RERT**

Omit clause 3.20.7(d) and substitute:

- (d) In order to effect the *dispatch* of a *scheduled resource* the subject of a *scheduled reserve contract* or the *activation* of *unscheduled reserves* it has available under an *unscheduled reserve contract*, *AEMO* may:
  - (1) submit, update or vary *dispatch bids* in relation to all or part of such a *scheduled resource* which is the subject of a *scheduled reserve contract*; or
  - (2) change other inputs to the *dispatch process* to give effect to the *dispatch* of *scheduled resources* the subject of a *scheduled reserve contract* or the *activation* of *unscheduled reserves* it has available under an *unscheduled reserve contract*.

**[627] Clause 3.20.7 AEMO's exercise of the RERT**

Omit clause 3.20.7(e)(1)(i) and substitute:

- (i) clause 3.20.3(i)) in relation to *unscheduled reserves* it has available under *unscheduled reserve contracts*; and

**[628] Clause 3.20.7 AEMO's exercise of the RERT**

In clause 3.20.7(e)(1A), omit "*generating units or loads*" and substitute "*unscheduled reserves*".

**[629] Schedule 3.1 Bid and Offer Validation Data**

Omit the heading of Schedule 3.1 and substitute:

**Schedule 3.1 Bid Validation Data**

**[630] Schedule 3.1 Bid Validation Data**

In paragraph (a) of Schedule 3.1, omit "*bid and offer validation data*" and substitute "*bid validation data*".

**[631] Schedule 3.1 Bid Validation Data**

In paragraph (a) of Schedule 3.1, omit "and *dispatch offers*".

**[632] Schedule 3.1 Bid Validation Data**

Omit paragraph (b) of Schedule 3.1 and substitute:

- (b) *Market Participants* must notify *AEMO* of their *bid validation data* in accordance with this schedule 3.1 in respect of each of their *scheduled resources* and *ancillary service units* at least six weeks prior to commencing participation in the *market*.

**[633] Schedule 3.1 Bid Validation Data**

In paragraph (c) of Schedule 3.1, omit "*Scheduled Generators, Semi-Scheduled Generators* and".

**[634] Schedule 3.1 Bid Validation Data**

In paragraph (c) of Schedule 3.1, omit "*bid and offer validation data*" and substitute "*bid validation data*".

**[635] Schedule 3.1 Bid Validation Data**

In paragraph (d) of Schedule 3.1, omit "*Scheduled Generator, Semi-Scheduled Generator* or".

**[636] Schedule 3.1 Bid Validation Data**

In paragraph (d) of Schedule 3.1, omit "*bid and offer validation data*" and substitute "*bid validation data*".

**[637] Schedule 3.1 Bid Validation Data**

In paragraph (e) of Schedule 3.1, omit "*Scheduled Generator, Semi-Scheduled Generator* and"

**[638] Schedule 3.1 Bid Validation Data**

In paragraph (e) of Schedule 3.1, omit "*Scheduled Generator, Semi-Scheduled Generator* or"

**[639] Schedule 3.1 Bid Validation Data**

In Schedule 3.1, in the "**Semi-Scheduled Generating Unit Data:**" table, after "maximum *generation* of the *semi-scheduled generating unit*, to which the *semi-scheduled generating unit* may be dispatched." insert the following:

**Note:**

For a *coupled production unit* classified as a *semi-scheduled generating unit*, the maximum *generation* must be limited to the maximum *generation* of that part of the *coupled production unit* that is *intermittent*.

**[640] Schedule 3.1 Bid Validation Data**

In Schedule 3.1, in the "**Scheduled Load Data:**" table, omit "maximum *load* of the *scheduled load*, to which" and substitute "maximum *consumption* of the *scheduled load*, to which".

**[641] Schedule 3.1 Bid Validation Data**

In Schedule 3.1, at the end of "**Scheduled Load Data:**" table, insert:

**Scheduled Bidirectional Unit Data:**

Data	Units of Measurement
<i>Facility information</i>	
<i>Facility name</i>	
<i>Scheduled bidirectional unit information</i>	
<p><b>Note:</b></p> <p>Repeat the following items for each <i>scheduled bidirectional unit</i> where there are two or more <i>scheduled bidirectional units</i> in the <i>power station</i> or connected at the same <i>connection point</i></p>	
<i>Scheduled bidirectional unit name</i>	
<p><b>Note:</b></p> <p>This may be the same name as the <i>power station</i> name when the <i>power station</i> has only one single or aggregated <i>scheduled bidirectional unit</i></p>	
<i>Dispatchable unit identifier</i>	

Data	Units of Measurement
Maximum <i>production</i> of the <i>scheduled bidirectional unit</i> , to which the <i>scheduled bidirectional unit</i> may be <i>dispatched</i> .	MW (produced)
Maximum <i>consumption</i> of the <i>scheduled bidirectional unit</i> , to which the <i>scheduled bidirectional unit</i> may be <i>dispatched</i> .	MW (consumed)
Maximum <i>ramp rate</i> of the <i>scheduled bidirectional unit</i> .	MW/minute

### [642] Schedule 3.1 Bid Validation Data

In Schedule 3.1, omit the table "Ancillary Service Generating Unit and Ancillary Service Load Data:" in its entirety and substitute:

#### Ancillary Service Unit Data:

Data	Units of Measurement
<i>Power station/load</i> installation information	
<i>power station/load</i> installation name	
<i>Ancillary service unit</i> information	
<b>Note:</b> Repeat the following items for each <i>dispatchable unit identifier</i> where there are two or more <i>ancillary service units</i> in a <i>power station</i> or <i>connected</i> at the same <i>connection point</i>	
Unit/ <i>load</i> name	
<i>Dispatchable unit identifier</i>	
<i>market ancillary service</i> *	
maximum <i>market ancillary service capacity</i> *	MW
<i>minimum enablement level</i> *	MW
<i>maximum enablement level</i> *	MW
<i>maximum lower angle</i> *	Degrees
<i>minimum lower angle</i> *	Degrees

## **Schedule 3      Amendment to the National Electricity Rules**

(Clause 5)

### **[1] Clause 4.1.1      Purpose**

Omit clause 4.1.1(a)(3)(iv) and substitute:

- (iv) to establish processes for the actual *dispatch* of *scheduled resources* and *ancillary services* by *AEMO* and for *AEMO* to *enable inertia network services* or *system strength services*.

### **[2] Clause 4.2.3      Credible and non-credible contingency events and protected events**

In clause 4.2.3(a), after "more *generating units*" insert "and/or *bidirectional units*".

### **[3] Clause 4.2.3      Credible and non-credible contingency events and protected events**

In clause 4.2.3(b)(1), after "operating *generating unit*" insert "or one operating *bidirectional unit*".

### **[4] Clause 4.2.3      Credible and non-credible contingency events and protected events**

In clause 4.2.3(e)(2)(i), after "multiple *generating unit*" insert "or *bidirectional unit*".

### **[5] Clause 4.2.6      General principles for maintaining power system security**

In clause 4.2.6(e), after "restarting of *generating units*" insert "or *bidirectional units*".

### **[6] Clause 4.3.1      Responsibility of AEMO for power system security**

In clause 4.3.1(i), omit "*scheduled generating units, semi-scheduled generating units, wholesale demand response units, scheduled loads, scheduled network services*" and substitute "*scheduled resources*".

### **[7] Clause 4.3.1      Responsibility of AEMO for power system security**

In clause 4.3.1(j), omit "*generating units, wholesale demand response units, loads, market network services*" and substitute "*scheduled resources*".



**[8] Clause 4.3.2 System security**

In clause 4.3.2(ha)(3), after "affected *Generators*" insert "and *Integrated Resource Providers*".

**[9] Clause 4.3.2 System security**

In clause 4.3.2(n), after "which *generating units*" insert "or *bidirectional units*".

**[10] Clause 4.3.6 System restart test obligations**

In clause 4.3.6(b), omit "other *Generator*" and substitute "other *Generators* and *Integrated Resource Providers*".

**[11] Clause 4.4.2 Operational frequency control requirements**

In clause 4.4.2(a), omit "*scheduled generating units, semi-scheduled generating units, wholesale demand response units, scheduled loads, scheduled network services*" and substitute "*scheduled resources*".

**[12] Clause 4.4.2 Operational frequency control requirements**

Omit clause 4.4.2(b) (excluding the note) and substitute:

- (b) each *Generator* and *Integrated Resource Provider* must ensure that all of its *generating units* and *bidirectional units* meet the technical requirements for *frequency control* in clause S5.2.5.11;

**[13] Clause 4.4.2 Operational frequency control requirements**

In clause 4.4.2(c), omit "*generating plant*" and substitute "*generating units* or *bidirectional units*".

**[14] Clause 4.4.3 Generator protection requirements**

In clause 4.4.3, after "*Generators*" insert "and *Integrated Resource Providers*".

**[15] Clause 4.4.4 Instructions to enable inertia network services**

In clause 4.4.4(d), omit "*inertia generating unit*" and substitute "*inertia unit*".

**[16] Clause 4.4.5 Instructions to enable system strength services**

In clause 4.4.5(c), omit "*system strength generating unit*" and substitute "*system strength production unit*".

**[17] Clause 4.6.6      System strength impact assessment guidelines**

In clause 4.6.6(a)(5), omit "a *load*" and substitute "*plant*".

**[18] Clause 4.8.3      AEMO's advice on power system emergency conditions**

In clause 4.8.3(b)(1), omit "load" and substitute "*load*".

**[19] Clause 4.8.3      AEMO's advice on power system emergency conditions**

In clause 4.8.3(b)(2)(i), after "*power system or generation plant*" insert "(including for a *bidirectional unit*)".

**[20] Clause 4.8.5      Managing declarations of conditions**

In clause 4.8.5(c)(2), omit "*Scheduled Network Service Providers, Market Customers, Demand Response Service Providers, Semi-Scheduled Generators and Scheduled Generators*" and substitute "*Market Participants* in respect of *scheduled resources*".

**[21] Clause 4.8.5A      Determination of the latest time for AEMO intervention**

In clause 4.8.5A(d), after "*Semi-Scheduled Generator*" insert ", *Scheduled Integrated Resource Provider*".

**[22] Clause 4.8.5A      Determination of the latest time for AEMO intervention**

Omit clause 4.8.5A(e)(3) and substitute:

- (3) estimates of the relevant costs to be incurred by the *Scheduled Network Service Provider, Scheduled Generator, Scheduled Integrated Resource Provider* or *Market Customer* should it be the subject of a *direction*, but only if *AEMO* considers it reasonably likely that such *Scheduled Network Service Provider, Scheduled Generator, Scheduled Integrated Resource Provider* or *Market Customer* will be subject to a *direction*.

**[23] Clause 4.8.5A      Determination of the latest time for AEMO intervention**

In clause 4.8.5A(f), omit "*Scheduled Generator or Semi-Scheduled Generator*" and substitute "*Scheduled Generator, Semi-Scheduled Generator, Scheduled Integrated Resource Provider*".

**[24] Clause 4.8.5A      Determination of the latest time for AEMO intervention**

Omit clause 4.8.5A(h) and substitute:

- (h) *AEMO* must treat any information provided in response to a request under paragraph (d) as *confidential information* and use it for the sole purpose of assessing to which *Scheduled Network Service Provider, Market Customer, Scheduled Generator or Scheduled Integrated Resource Provider* it should issue *directions*.

**[25] Clause 4.8.7      Managing a power system contingency event**

In clause 4.8.7(a)(1), omit "*generating units or transmission networks*" and substitute "*generating units, bidirectional units, transmission networks*".

**[26] Clause 4.8.9      Power to issue directions and clause 4.8.9 instructions**

Omit clause 4.8.9(a1)(1) and substitute:

- (1) take action as contemplated by clause 4.8.9(a) or section 116 of the *NEL* in relation to a *scheduled resource* (other than a *wholesale demand response unit*), an *ancillary service unit*, a *market generating unit* or a *market bidirectional unit*, *AEMO* is taken to have issued a *direction*; or

**[27] Clause 4.8.9      Power to issue directions and clause 4.8.9 instructions**

In clause 4.8.9(b)(1), omit "*Market Customers*" and substitute "*Affected Load Participants*".

**[28] Clause 4.8.9      Power to issue directions and clause 4.8.9 instructions**

In clause 4.8.9(h)(1), omit ", *dispatch offers*".

**[29] Clause 4.8.10      Disconnection of generating units and market network services**

Omit the heading in clause 4.8.10 and substitute:

**4.8.10 Disconnection of generating units, bidirectional units and market network services**

**[30] Clause 4.8.10 Disconnection of generating units, bidirectional units and market network services**

In clause 4.8.10(a), after "to *disconnect a generating unit*" insert ", a *bidirectional unit*".

**[31] Clause 4.8.10 Disconnection of generating units, bidirectional units and market network services**

In clause 4.8.10(b), after "The relevant *Generator*" insert ", *Integrated Resource Provider*".

**[32] Clause 4.8.12 System restart plan and local black system procedures**

In clause 4.8.12(a2)(3), after "a *Generator*" insert "or *Integrated Resource Provider*".

**[33] Clause 4.8.12 System restart plan and local black system procedures**

Omit clause 4.8.12(d) (excluding the note) and substitute:

- (d) Each *Generator, Integrated Resource Provider and Network Service Provider* must develop *local black system procedures* in accordance with the guidelines referred to in clause 4.8.12(e). The *Registered Participant's local black system procedures* must be consistent with any *ancillary services agreement* to provide *SRASs* to which that *Registered Participant* is a party. On request from *AEMO*, or as a result of a significant change of circumstances, a *Registered Participant* must review, and amend if appropriate, its *local black system procedures*.

**[34] Clause 4.8.12 System restart plan and local black system procedures**

In clause 4.8.12(e), after "in consultation with *Generators*" insert ", *Integrated Resource Providers*".

**[35] Clause 4.8.12 System restart plan and local black system procedures**

In clause 4.8.12(f)(1A), after "action the *Generator*" insert ", *Integrated Resource Provider*".

**[36] Clause 4.8.12 System restart plan and local black system procedures**

In clause 4.8.12(f)(2), after "which a *Generator*" insert ", *Integrated Resource Provider*".

**[37] Clause 4.8.12 System restart plan and local black system procedures**

In clause 4.8.12(g), after "Each *Generator*" insert ", *Integrated Resource Provider*".

**[38] Clause 4.8.12 System restart plan and local black system procedures**

In clause 4.8.12(i), after each reference to "a *Generator*" insert ", *Integrated Resource Provider*".

**[39] Clause 4.8.12 System restart plan and local black system procedures**

In clause 4.8.12(k)(1)(iii), omit "*Network Service Providers and Generators*" and substitute "*Network Service Providers, Generators and Integrated Resource Providers*".

**[40] Clause 4.8.14 Power system restoration**

Omit clause 4.8.14(b) (excluding the note) and substitute:

- (b) If *AEMO* advises a *Generator, Integrated Resource Provider* or *Network Service Provider* of a *major supply disruption*, or if the terms of the relevant *local black system procedures* require the *Generator, Integrated Resource Provider* or *Network Service Provider* to take action, then the *Generator, Integrated Resource Provider* or *Network Service Provider* must comply with the requirements of the *local black system procedures* as quickly as is practicable.

**[41] Clause 4.8.14 Power system restoration**

In clause 4.8.14(d), after "a *Generator*" insert ", *Integrated Resource Provider*".

**[42] Clause 4.9.1 Load forecasting**

In clause 4.9.1(c)(1), omit "*embedded generating units*" and substitute "*distribution connected units*".

**[43] Clause 4.9.2 Instructions to Scheduled Generators and Semi-Scheduled Generators**

Omit the heading of clause 4.9.2 and substitute:

**4.9.2 Instructions to Scheduled Generators, Semi-Scheduled Generators and Scheduled Integrated Resource Providers**

**[44] Clause 4.9.2 Instructions to Scheduled Generators, Semi-Scheduled Generators and Scheduled Integrated Resource Providers**

Omit clause 4.9.2(a) and substitute:

- (a) To implement *central dispatch* or, where *AEMO* has the power to direct or to instruct a *Scheduled Generator*, *Semi-Scheduled Generator* or *Scheduled Integrated Resource Provider* either under Chapter 3 or this Chapter, then for the purpose of giving effect to that direction or instruction, *AEMO* may at any time give an instruction to the *Generator* or *Integrated Resource Provider* in relation to any of its *generating units* or *bidirectional units* (a *dispatch instruction*), in accordance with clause 4.9.5(b), nominating:
- (1) whether the facilities for *generation* remote control by *AEMO*, if available, must be in service; and
  - (2) in the case of a:
    - (i) *scheduled generating unit* or *scheduled bidirectional unit*, the level or schedule of power; and
    - (ii) *semi-scheduled generating unit*, the *dispatch level*, applicable over the specified period.

**[45] Clause 4.9.2 Instructions to Scheduled Generators, Semi-Scheduled Generators and Scheduled Integrated Resource Providers**

In clause 4.9.2(b), omit "*Generator* in relation to any of its *generating units* with a *nameplate rating* of 30MW or more, or its *systems* of combined" and substitute "*Generator* or *Integrated Resource Provider* in relation to any of its *generating units* with a *nameplate rating* of 30MW or more, or its *generating systems* of combined".

**[46] Clause 4.9.2 Instructions to Scheduled Generators, Semi-Scheduled Generators and Scheduled Integrated Resource Providers**

After clause 4.9.2(b) insert:

- (b1) Subject to paragraph (c), *AEMO* may at any time give an instruction to an *Integrated Resource Provider* in relation to any of its

*bidirectional units* with a *nameplate rating* of 5 MW or more, or its *integrated resource systems* of combined *nameplate rating* of 5 MW or more, nominating that:

- (1) the *bidirectional unit* or *integrated resource system* transformer is to be set to a nominated tap position (if it has on-load tap changing capability);
- (2) the *bidirectional unit's* or *integrated resource system's* *voltage control system* set-point is to be set to give a nominated *voltage*;  
or
- (3) the *bidirectional unit* or *integrated resource system* is to be operated to supply or absorb a nominated level of *reactive power* at its *connection point*.

**[47] Clause 4.9.2      Instructions to Scheduled Generators,  
Semi-Scheduled Generators and  
Scheduled Integrated Resource  
Providers**

Omit clause 4.9.2(c) and substitute:

- (c) Unless otherwise provided under an *ancillary services agreement*, a *network support agreement* or a *connection agreement*, AEMO must not give an instruction under paragraph (b) or (b1) that requires a *generating unit* or *generating system* or *bidirectional unit* or *integrated resource system* (as applicable) to supply or absorb *reactive power* at a level outside the *plant's* relevant *performance standard*.

**[48] Clause 4.9.2      Instructions to Scheduled Generators,  
Semi-Scheduled Generators and  
Scheduled Integrated Resource  
Providers**

Omit clause 4.9.2(d) (excluding the note) and substitute:

- (d) A *Scheduled Generator*, *Semi-Scheduled Generator* or *Scheduled Integrated Resource Provider* must, with respect to its *generating units* or *bidirectional units* that have an availability offer of greater than 0 MW (whether *synchronised* or not), ensure that appropriate personnel are available at all times to receive and immediately act upon *dispatch instructions* issued by AEMO to the relevant *Generator* or *Integrated Resource Provider*.



## **[49] New Clause 4.9.2A Instructions to each scheduled resource in a hybrid integrated resource system**

After clause 4.9.2, insert a new clause 4.9.2A:

### **4.9.2A Aggregated dispatch conformance for hybrid integrated resource systems**

- (a) This clause applies to an *integrated resource system* that comprises more than one *scheduled resource* and where *AEMO* gives separate *dispatch instructions* for each *scheduled resource*.
- (b) An *Integrated Resource Provider* for an *integrated resource system* to which this clause applies may, in accordance with the *power system operating procedure* made under paragraph (d), comply in aggregate (**aggregated dispatch conformance**) with the *dispatch instructions* for a *trading interval* for two or more of the *scheduled resources* comprised in the *integrated resource system*, excluding any *scheduled resource* for which resource level compliance has been specified in accordance with paragraph (c).
- (c) *AEMO* may specify in a *dispatch instruction* for a *scheduled resource* in an *integrated resource system* that the *scheduled resource* the subject of the *dispatch instruction* is required to operate in accordance with that *dispatch instruction* (**resource level compliance**) where a *network constraint* would be violated if the relevant *scheduled resource* were to operate other than in accordance with the *dispatch instruction*, due to technical characteristics of the relevant *scheduled resource*.
- (d) *AEMO* must make, as a *power system operating procedure*, a procedure setting out:
  - (1) for the purposes of paragraph (b), permitted forms of aggregated dispatch conformance by one or more *scheduled resources* comprised in an integrated resource system; and
  - (2) arrangements for *AEMO* to specify when resource level compliance is required for the purposes of paragraph (c).

### **[50] Clause 4.9.3 Instructions to Registered Participants**

Omit clause 4.9.3(a) and substitute:

- (a) *AEMO* may, at any time, give instructions to a *Registered Participant* to reduce the electricity consumption of its *scheduled load* consistent with *dispatch bids* made in accordance with Chapter 3 (*dispatch instructions*).

**[51] Clause 4.9.3 Instructions to Registered Participants**

In clause 4.9.3(b), omit all references to "*Market Customer*" and substitute "*Registered Participant*".

**[52] Clause 4.9.3A Ancillary services instructions**

In clause 4.9.3A(a), omit "a *Market Participant* which has classified one or more of its *generating units* or *loads* as an *ancillary service generating unit* or an *ancillary service load*" and substitute "an *Ancillary Service Provider*".

**[53] Clause 4.9.3A Ancillary services instructions**

In clause 4.9.3A(a)(1), omit "the relevant *generating unit* or *load*" and substitute "an *ancillary service unit* of the *Ancillary Service Provider*".

**[54] Clause 4.9.3A Ancillary services instructions**

Omit clause 4.9.3A(c) (excluding the note) and substitute:

- (c) *An Ancillary Service Provider* who has submitted a *market ancillary service bid* in respect of an *ancillary service unit* must ensure that appropriate personnel or electronic facilities are available at all times to receive and immediately act upon *dispatch instructions* issued to the *Ancillary Service Provider* by *AEMO*.

**[55] Clause 4.9.4 Dispatch related limitations on Scheduled Generators and Semi-Scheduled Generators**

Omit the heading of clause 4.9.4 and substitute:

**4.9.4 Dispatch related limitations on Scheduled Generators, Semi-Scheduled Generators and Scheduled Integrated Resource Providers**

**[56] Clause 4.9.4 Dispatch related limitations on Scheduled Generators, Semi-Scheduled Generators and Scheduled Integrated Resource Providers**

In clause 4.9.4, omit the opening paragraph and substitute:

*A Scheduled Generator, Semi-Scheduled Generator or Scheduled Integrated Resource Provider* (as the case may be) must not, unless in the *Generator's* or *Integrated Resource Provider's* reasonable opinion, public safety would otherwise be threatened or there would be a material risk of damaging equipment or the environment:

**[57] Clause 4.9.4**      **Dispatch related limitations on Scheduled Generators, Semi-Scheduled Generators and Scheduled Integrated Resource Providers**

In clause 4.9.4(a), after "a *generating unit*" insert "or *bidirectional unit*".

**[58] Clause 4.9.4**      **Dispatch related limitations on Scheduled Generators, Semi-Scheduled Generators and Scheduled Integrated Resource Providers**

In clause 4.9.4(b), after "*scheduled generating unit*" insert ", *scheduled bidirectional unit*".

**[59] Clause 4.9.4**      **Dispatch related limitations on Scheduled Generators, Semi-Scheduled Generators and Scheduled Integrated Resource Providers**

In clause 4.9.4(b)(3), after each reference to "the *Generator's*" insert "or *Integrated Resource Provider's*".

**[60] Clause 4.9.4**      **Dispatch related limitations on Scheduled Generators, Semi-Scheduled Generators and Scheduled Integrated Resource Providers**

In clause 4.9.4(c), after "to a *generating unit*" insert "or *bidirectional unit*".

**[61] Clause 4.9.4**      **Dispatch related limitations on Scheduled Generators, Semi-Scheduled Generators and Scheduled Integrated Resource Providers**

In clause 4.9.4(e), after "a *scheduled generating unit*" insert "or *scheduled bidirectional unit*".

**[62] Clause 4.9.4**      **Dispatch related limitations on Scheduled Generators, Semi-Scheduled Generators and Scheduled Integrated Resource Providers**

In clause 4.9.4(f), after "on that *generating unit*" insert "or *bidirectional unit*".

**[63] Clause 4.9.5 Form of dispatch instructions**

In clause 4.9.5(a), omit "*scheduled generating unit, semi-scheduled generating unit, scheduled network service or scheduled load*" and substitute "*scheduled resource (other than a wholesale demand response unit)*".

**[64] Clause 4.9.5 Form of dispatch instructions**

In clause 4.9.5(a)(1), omit "*generating unit (including any aggregated generating unit), scheduled network service or scheduled load or other facility*" and substitute "*scheduled resource (including any scheduled resources aggregated under clause 3.8.3)*".

**[65] Clause 4.9.5 Form of dispatch instructions**

In clause 4.9.5(a)(3), after "by the *generating unit*" insert "or *bidirectional unit*".

**[66] Clause 4.9.5 Form of dispatch instructions**

In clause 4.9.5(a)(1), omit "*generating unit or load*" and substitute "*ancillary service unit*".

**[67] Clause 4.9.8 General responsibilities of Registered Participants**

Omit clause 4.9.8(a1) and substitute:

- (a1) A *Scheduled Generator, Semi-Scheduled Generator or Scheduled Integrated Resource Provider* is not taken to have failed to comply with a *dispatch instruction* as a consequence of its *generating unit or bidirectional unit* operating in *frequency response mode* in order to adjust *power system frequency* in response to *power system conditions*.

**[68] Clause 4.9.8 General responsibilities of Registered Participants**

After clause 4.9.8(a2), insert a new clause 4.9.8(a3) as follows:

- (a3) A *Registered Participant* must ensure that each of its *scheduled resources* is at all times able to comply with the latest *dispatch bid* under Chapter 3 in respect of that *scheduled resource*.

**[69] Clause 4.9.8 General responsibilities of Registered Participants**

In clause 4.9.8(b), omit "*generation dispatch offer*" and substitute "*dispatch bid*".

**[70] Clause 4.9.8      General responsibilities of Registered Participants**

In clause 4.9.8(b1), omit "*network dispatch offer*" and substitute "*dispatch bid*".

**[71] Clause 4.9.8      General responsibilities of Registered Participants**

Omit clause 4.9.8(d) (excluding the note) and substitute:

- (d) *An Ancillary Service Provider must ensure that each of its ancillary service units is at all times able to comply with the latest market ancillary service bid for the relevant trading interval.*

**[72] Clause 4.9.8      General responsibilities of Registered Participants**

In clause 4.9.8(e), omit "*generation dispatch offer*" and substitute "*dispatch bid*".

**[73] Clause 4.9.9      Scheduled Generator plant changes**

Omit the heading of clause 4.9.9 and substitute:

**4.9.9      Scheduled Generator or Scheduled Integrated Resource Provider plant changes**

**[74] Clause 4.9.9      Scheduled Generator or Scheduled Integrated Resource Provider plant changes**

Omit clause 4.9.9 (excluding the note) and substitute:

- A Scheduled Generator or Scheduled Integrated Resource Provider must, without delay, notify AEMO of any event which has changed or is likely to change the operational availability of any of its scheduled generating units or scheduled bidirectional units, whether the relevant generating unit or bidirectional unit is synchronised or not, as soon as the Scheduled Generator or Scheduled Integrated Resource Provider becomes aware of the event.*

**[75] Clause 4.9.9B      Ancillary service plant changes**

Omit clause 4.9.9B (excluding the note) and substitute:

- An Ancillary Service Provider must, without delay, notify AEMO of any event which has changed or is likely to change the availability of a market ancillary service, or the capability of the ancillary service unit to respond in the manner contemplated by the market ancillary service specification, as soon as the Market Participant becomes aware of the event.*

**[76] Clause 4.11.1 Remote control and monitoring devices**

In clause 4.11.1(a)(1), after "*scheduled generating unit*" insert ", *scheduled bidirectional unit*".

**[77] Clause 4.11.1 Remote control and monitoring devices**

In clause 4.11.1(d), after "*Network Service Provider, a Generator*" insert ", an *Integrated Resource Provider*".

**[78] Clause 4.11.1 Remote control and monitoring devices**

In clause 4.11.1(d)(1), after "or *distribution system, generating unit*" insert "or *bidirectional unit*".

**[79] Clause 4.11.1 Remote control and monitoring devices**

In clause 4.11.1(e), after "*Network Service Provider, Generator*" insert ", *Integrated Resource Provider*".

**[80] Clause 4.11.1 Remote control and monitoring devices**

In clause 4.11.1(g), after "A *Generator*" insert ", *Integrated Resource Provider*".

**[81] Clause 4A.A.1 Definitions**

In clause 4A.A.1, omit the definition of "**generator capacity**".

**[82] Clause 4A.A.1 Definitions**

In clause 4A.A.1, insert the following definition in alphabetical order:

**production capacity** has the meaning given in clause 4A.G.3(b).

**[83] Clause 4A.A.1 Definitions**

In clause 4A.A.1, omit the definition of "**registered capacity**" and substitute the following:

**registered capacity** means in respect of a *generating unit* or *bidirectional unit*, the amount, in MW, shown as 'registered capacity' attributable to that *generating unit* or *bidirectional unit* in the 'NEM registration and exemption list' published by *AEMO* (in the case of a *bidirectional unit*, insofar as referable to its capacity to produce electricity).

**[84] Clause 4A.D.2 Liable entities**

Omit clause 4A.D.2(a)(1) (excluding the note) and substitute:

- (1) the person is a *Market Customer* or *Integrated Resource Provider* and is *financially responsible* for a *connection point* in that *region* at the end of the contract position day but only to

the extent there is no opt-in customer for that *connection point* at the end of the contract position day;

**[85] Clause 4A.D.2    Liabile entities**

In clause 4A.D.2(b), after "*Market Customer*" insert "or *Integrated Resource Provider*".

**[86] Clause 4A.D.2    Liabile entities**

In clause 4A.D.2(b)(1), omit "registered" and substitute "*financially responsible*".

**[87] Clause 4A.D.2    Liabile entities**

Omit clause 4A.D.2(b)(2) and substitute:

- (2) the aggregate consumption of electricity of all *connection points* in that *region* for which it is *financially responsible* at the end of the contract position day (excluding any *market connection point* for a *market generating unit* or *small generating unit*) is equal to or less than 10 GWh per annum as determined in accordance with the Contracts and Firmness Guidelines.

**[88] Clause 4A.D.3    New entrants**

In clause 4A.D.3(a), after "*Market Customer*" insert "or *Integrated Resource Provider* that is *financially responsible*".

**[89] Clause 4A.D.3    New entrants**

Omit clause 4A.D.3(c) (excluding the note) and substitute:

- (c) the aggregate consumption of electricity of all *connection points* in that *region* for which it is *financially responsible* at the end of the new entrant contract position day (excluding any *small resource connection points*) exceeds, or is expected to exceed, 10 GWh per annum as determined in accordance with the Contracts and Firmness Guidelines.

**[90] Clause 4A.D.4    Application to register as large opt-in customer**

In clause 4A.D.4(a)(2), after "from the *Market Customer*" insert "or *Integrated Resource Provider*".

**[91] Clause 4A.D.4    Application to register as large opt-in customer**

Omit clause 4A.D.4(c) and substitute:



- (c) An applicant must provide evidence to the *AER* as part of the application that it has given notice of the application to the *Market Customer* or *Integrated Resource Provider* that is *financially responsible* for the *connection point*. The *financially responsible Market Participant's* consent is not required to make an application.

**[92] Clause 4A.D.5 Application to register as prescribed opt-in customer**

In clause 4A.D.5(a)(3), omit "*load*" and insert "*electricity supplied*".

**[93] Clause 4A.D.5 Application to register as prescribed opt-in customer**

Omit clause 4A.D.5(c) and substitute:

- (c) An applicant must provide evidence to the *AER* as part of the application that it has given notice of the application to the *financially responsible Market Participant* and any existing prescribed opt-in customer for the *connection point*. The consent of the *financially responsible Market Participant* is not required to make an application. An existing prescribed opt-in customer's consent is not required unless approval of the application would require a change to the percentage of the *load* for which that prescribed opt-in customer is registered.

**[94] Clause 4A.D.8 AER approval of applications**

Omit clause 4A.D.8(b) and substitute:

- (b) If the *AER* rejects an application for registration, it must give the applicant written reasons for its decision. The *AER* may inform the *financially responsible Market Participant* for the relevant *connection point* of the rejection in accordance with the *AER Opt-In Guidelines*, or must inform the *financially responsible Market Participant* on request.

**[95] Clause 4A.D.8 AER approval of applications**

In clause 4A.D.8(c), omit "*Market Customer*" and substitute "*financially responsible Market Participant*".

**[96] Clause 4A.D.8 AER approval of applications**

In clause 4A.D.8(d), omit "*Market Customer*" and substitute "*financially responsible Market Participant*".

**[97] Clause 4A.D.8 AER approval of applications**

In clause 4A.D.8(e)(2), omit "*Market Customer*" and substitute "*financially responsible Market Participant*".

**[98] Clause 4A.D.10 Changes to register**

In clause 4A.D.10(d), omit "*Market Customer*" and substitute "*financially responsible Market Participant*".

**[99] Clause 4A.D.10 Changes to register**

In clause 4A.D.10(e), omit "*Market Customer*" and substitute "*financially responsible Market Participant*".

**[100] Clause 4A.D.13 AER Opt-In Guidelines**

In clause 4A.D.13(b)(3), after "*Market Customers*" insert ", *Integrated Resource Providers*".

**[101] Clause 4A.D.13 AER Opt-In Guidelines**

In clause 4A.D.13(b)(6), omit "*Market Customer*" and substitute "*financially responsible Market Participant*".

**[102] Clause 4A.F.3 Share of one-in-two year peak demand forecast**

Omit clause 4A.F.3(b)(1) and substitute:

- (1) if the liable entity is a *Market Participant*, the aggregate of the *adjusted gross energy* for each *connection point* for which it is *financially responsible* for the compliance TI (less any *adjusted gross energy* allocated to a prescribed opt-in customer at one of those *connection points* and excluding any *market connection point* for a *market generating unit* or *small generating unit*) based on the relevant *routine revised statements* for the *billing periods* relating to the *reliability gap period* given approximately 30 weeks after the relevant *billing period*;

**[103] Clause 4A.F.3 Share of one-in-two year peak demand forecast**

In clause 4A.F.3(b)(2), omit all references to "*Market Customer*" and substitute "*Market Participant*".

**[104] Clause 4A.F.3 Share of one-in-two year peak demand forecast**

In clause 4A.F.3(c), omit "*Market Customer*" and substitute "*Market Participant*".

**[105] Clause 4A.G.1 Overview of Part G**

Omit clause 4A.G.1(c) and substitute:

- (c) Division 2 specifies how this Part applies to *Market Generators* and *Integrated Resource Providers* and how a *Market Generator's* and *Integrated Resource Provider's* trading right holder is identified.

**[106] Clause 4A.G.1 Overview of Part G**

Omit clause 4A.G.1(e) and substitute:

- (e) Division 4 sets out how a *Market Generator's* and *Integrated Resource Provider's* production capacity is allocated to a trading group, for the purposes of assessing each trading group's market share of *generation* in a *region*.

**[107] Clause 4A.G.1 Overview of Part G**

In clause 4A.G.1(f), after "*Market Generators*" insert "or *Integrated Resource Providers*".

**[108] Division 2 Market Generators and trading right holders**

Omit the heading of Division 2, above clause 4A.G.3 and substitute:

**Division 2 Market Generators, Integrated Resource Providers and trading right holders**

**[109] Clause 4A.G.3 Market Generators and generator capacity**

Omit the heading of clause 4A.G.3 and substitute:

**4A.G.3 Market Generators, Integrated Resource Providers and production capacity**

**[110] Clause 4A.G.3 Market Generators, Integrated Resource Providers and production capacity**

Omit clause 4A.G.3(a) and substitute:

- (a) This Part applies to a *Market Generator* and *Integrated Resource Provider* in each *region*, in so far as its activities relate to any one or more *scheduled generating units* or *scheduled bidirectional units* that are:
- (1) classified as a *market generating unit* or *market bidirectional unit* under Chapter 2; and
  - (2) located in that *region*.

**[111] Clause 4A.G.3 Market Generators, Integrated Resource Providers and production capacity**

Omit clause 4A.G.3(b) (excluding the note) and substitute:

- (b) Subject to clause 4A.G.21(b), **production capacity** means:
  - (1) in respect of a *Market Generator* for a *region*, the registered capacity of each *scheduled generating unit* of that *Market Generator* that is classified as a *market generating unit* under Chapter 2 and located in that *region*; and
  - (2) in respect of an *Integrated Resource Provider* for a *region*, the registered capacity of each *scheduled bidirectional unit* of that *Integrated Resource Provider* that is classified as a *market bidirectional unit* under Chapter 2 and located in that *region*.

**[112] Clause 4A.G.4 Trading rights and trading right holders**

Omit clause 4A.G.4(a) and substitute:

- (a) A person ("**trading right holder**") holds a trading right, in respect of a *Market Generator's* or *Integrated Resource Provider's* production capacity, if it has dispatch control over all or a portion of that production capacity.

**[113] Clause 4A.G.4 Trading rights and trading right holders**

Omit clause 4A.G.4(b) and substitute:

- (b) For the purposes of paragraph (a), dispatch control means the ability to control the making of *dispatch bids* under Chapter 3 in relation to all or a portion of a *Market Generator's* or *Integrated Resource Provider's* production capacity, as determined in the MLO Guidelines.

**[114] Clause 4A.G.4 Trading rights and trading right holders**

In clause 4A.G.4(c), omit "generator capacity" and substitute "or *Integrated Resource Provider's* production capacity".

**[115] Clause 4A.G.4 Trading rights and trading right holders**

Omit clause 4A.G.4(c)(2) and substitute:

- (2) such that the aggregate trading rights held by each trading right holder must be equal to the production capacity of the relevant *Market Generator* or *Integrated Resource Provider*; and

**[116] Clause 4A.G.4 Trading rights and trading right holders**

Omit clause 4A.G.4(d) and substitute:

- (d) If the *AER* is not satisfied that the information provided by a *Market Generator* or *Integrated Resource Provider* under clause 4A.G.13 relating to the identity of its trading right holders, or the trading rights held by each of its trading right holders, is consistent with the dispatch control arrangements applicable to that *Market Generator's* or *Integrated Resource Provider's* production capacity, then the *AER* may, in accordance with the MLO Guidelines, make its own determination of:
- (1) the identity of each *Market Generator's* or *Integrated Resource Provider's* trading right holder; and
  - (2) the trading rights held by that trading right holder.

### **[117] Clause 4A.G.5 Trading group**

In clause 4A.G.5(a)(1), after "*scheduled generating units*" insert "*or scheduled bidirectional units*".

### **[118] Clause 4A.G.7 Traced capacity**

In clause 4A.G.7(a), omit "generator capacity" and substitute "*or Integrated Resource Provider's* production capacity".

### **[119] Clause 4A.G.7 Traced capacity**

In clause 4A.G.7(b), after "*Market Generator's*" insert "*or Integrated Resource Provider's*".

### **[120] Clause 4A.G.7 Traced capacity**

In clause 4A.G.7(c), omit "generation capacity" and substitute "production capacity".

### **[121] Clause 4A.G.8 Tracing capacity to trading groups**

In clause 4A.G.8(c), omit all references to "generator capacity" and substitute "*or Integrated Resource Provider's* production capacity".

### **[122] Clause 4A.G.8 Tracing capacity to trading groups**

Omit clause 4A.G.8(d) and insert:

- (d) If paragraph (b) applies and a *Market Generator* or *Integrated Resource Provider* fails to notify the *AER* of the allocation of its production capacity as required under clause 4A.G.13, then the relevant parcel of that *Market Generator's* or *Integrated Resource Provider's* production capacity, is allocated to each relevant trading group simultaneously.

**[123] Clause 4A.G.11 MLO generator**

In clause 4A.G.11, after "a *Market Generator*" insert "or *Integrated Resource Provider*".

**[124] Division 6 Market Generator information**

Omit the heading of Division 6, above clause 4A.G.12 and substitute:

**Division 6 Market Generator and Integrated Resource  
Provider information**

**[125] Clause 4A.G.12 MLO register**

In clause 4A.G.12(b)(1), after "each *Market Generator*" insert "and *Integrated Resource Provider*".

**[126] Clause 4A.G.12 MLO register**

Omit clause 4A.G.12(b)(2) and substitute:

- (2) the production capacity of each *Market Generator* and *Integrated Resource Provider*;

**[127] Clause 4A.G.12 MLO register**

In clause 4A.G.12(b)(3), after "*Market Generator*" insert "and *Integrated Resource Provider*".

**[128] Clause 4A.G.12 MLO register**

In clause 4A.G.12(b)(6), after "*Market Generator's*" insert "or *Integrated Resource Provider's*".

**[129] Clause 4A.G.12 MLO register**

In clause 4A.G.12(e)(1), after "*Market Generator*" insert "or *Integrated Resource Provider*".

**[130] Clause 4A.G.12 MLO register**

In clause 4A.G.12(h), after "*Market Generator*" insert "or *Integrated Resource Provider*".

**[131] Clause 4A.G.13 Market Generator information**

Omit the heading of clause 4A.G.13 and substitute:

**4A.G.13 Market Generator and Integrated Resource Provider information**

**[132] Clause 4A.G.13 Market Generator and Integrated Resource Provider information**

In clause 4A.G.13(a), after "*Each Market Generator*" insert "*and Integrated Resource Provider*".

**[133] Clause 4A.G.13 Market Generator and Integrated Resource Provider information**

After clause 4A.G.13(a)(1)(i) insert:

- (i1) the *scheduled bidirectional units* in relation to which it is an *Integrated Resource Provider*;

**[134] Clause 4A.G.13 Market Generator and Integrated Resource Provider information**

In clause 4A.G.13(a)(1)(ii), omit "generator" and substitute "production".

**[135] Clause 4A.G.13 Market Generator and Integrated Resource Provider information**

In clause 4A.G.13(a)(2), after "*Market Generator*" insert "*or Integrated Resource Provider*".

**[136] Clause 4A.G.13 Market Generator and Integrated Resource Provider information**

Omit clause 4A.G.13(b) (excluding the note) and substitute:

- (b) *A Market Generator or Integrated Resource Provider may provide information to the AER under this clause on behalf of other Market Generators or Integrated Resource Providers whose trading right holder belongs to the same trading group, in which case, those other Market Generators or Integrated Resource Providers will be taken to have complied with this clause.*

**[137] Clause 4A.G.14 Applications to the AER**

In clause 4A.G.13(a), after "*A Market Generator*" insert "*or Integrated Resource Provider*".

**[138] Clause 4A.G.14 Applications to the AER**

In clause 4A.G.13(c)(1), after "*a Market Generator*" insert "*or Integrated Resource Provider*".



### **[139] Clause 4A.G.14 Applications to the AER**

In clause 4A.G.13(d)(1), after "the *Market Generator*" insert "or *Integrated Resource Provider*".

### **[140] Clause 4A.G.21 Exemptions**

Omit clause 4A.G.21(b) and substitute:

- (b) If a *scheduled generating unit* or *scheduled bidirectional unit* is the subject of a notice to *AEMO* under clause 2.10.1(a)(2) and the *closure date* specified in the notice is earlier than the start of a forecast reliability gap period, then in this Division, for the purposes of determining MLO generators and assessing compliance with the liquidity obligation in relation to that forecast reliability gap period, production capacity is taken not to include the registered capacity of the *scheduled generating unit* or *scheduled bidirectional unit* that is the subject of the notice, as determined (where relevant) in accordance with the MLO Guidelines.

### **[141] Clause 4A.G.25 MLO Guidelines**

In clause 4A.G.25(b)(1), omit "generator capacity" and substitute "or *Integrated Resource Provider's* production capacity".

### **[142] Clause 4A.G.25 MLO Guidelines**

Omit clause 4A.G.25(b)(2) and substitute:

- (2) the methodology and process for allocating a *Market Generator's* or *Integrated Resource Provider's* production capacity to one or more trading groups under clause 4A.G.8, and any supporting material a *Market Generator* or *Integrated Resource Provider* must provide when notifying the *AER* of an allocation;

### **[143] Clause 4A.G.25 MLO Guidelines**

In clause 4A.G.25(b)(4), after "each *Market Generator*" insert "or *Integrated Resource Provider*".

## **Schedule 4      Amendment to the National Electricity Rules**

(Clause 6)

### **[1] Clause 5.1.2      Overview of Part B and connection and access under the Rules**

In clause 5.1.2(d) table, in row 1, omit "*generating plant*" and substitute "*generating system or integrated resource system*".

### **[2] Clause 5.1.2      Overview of Part B and connection and access under the Rules**

In clause 5.1.2(d) table, in row 2, after "(or a person pursuant to clause 5.1A.1(c)) for a", insert "source of".

### **[3] Clause 5.1.2      Overview of Part B and connection and access under the Rules**

In clause 5.1.2(d) table, in row 3, after "A", insert "source of".

### **[4] Clause 5.1.2      Overview of Part B and connection and access under the Rules**

In clause 5.1.2(d) table, in row 6, omit "*An embedded generating unit*" and substitute "*A distribution connected unit*".

### **[5] Clause 5.1.2      Overview of Part B and connection and access under the Rules**

In clause 5.1.2(d) table, in row 6, in the second bullet point, omit "*non-registered embedded generator*" and substitute "*non-registered DER provider*".

### **[6] Clause 5.1.2      Overview of Part B and connection and access under the Rules**

In clause 5.1.2(d) table, in row 8, omit the text in the middle column and substitute "*A Generator or Integrated Resource Provider wishing to alter a generating system or an integrated resource system in the circumstances set out in clause 5.3.9*".

### **[7] Clause 5.1.2      Overview of Part B and connection and access under the Rules**

In clause 5.1.2(d) table, in row 9, omit "*connected generating plant*" and substitute "*generating system or integrated resource system*".

**[8] Clause 5.1.2 Overview of Part B and connection and access under the Rules**

In clause 5.1.2(d) table, in row 10, omit "An *Embedded Generator, non-registered embedded generator*" and substitute "A *Distribution Connected Resource Provider or non-registered DER provider*".

**[9] Clause 5.1.2 Overview of Part B and connection and access under the Rules**

In clause 5.1.2(d) table, in row 11, omit "*load or generating plant*" and substitute "*generating system, integrated resource system, or source of load*".

**[10] Clause 5.1.2 Overview of Part B and connection and access under the Rules**

In clause 5.1.2(d) table, in row 12, before "*load*", insert "source of".

**[11] Clause 5.1.2 Overview of Part B and connection and access under the Rules**

In clause 5.1.2(d) table, in row 12, in the second paragraph, omit "*non-registered embedded generator*" and substitute "*non-registered DER provider*".

**[12] Clause 5.1.2 Overview of Part B and connection and access under the Rules**

In clause 5.1.2(d) table, in row 13, omit the text in the middle column and substitute "A *retail customer (or a retailer or Small Resource Aggregator on behalf of that customer) seeking a micro DER connection*".

**[13] Clause 5.1.2 Overview of Part B and connection and access under the Rules**

In clause 5.1.2(e)(2), omit "clause 5.3AA(f) (*negotiated use of system charges*) or 5.3AA(h) (*avoided charges for the locational component of prescribed TUOS services*)" and substitute "clause 5.3AA(f) or 5.3AA(h)".

**[14] Clause 5.2.3 Obligations of network service providers**

In clause 5.2.3(d)(11), after "*Generators*", insert "or *Integrated Resource Providers*".

**[15] New clause 5.2.5A Obligations of Integrated Resource Providers**

After clause 5.2.5, insert:

### 5.2.5A Obligations of Integrated Resource Providers

- (a) An *Integrated Resource Provider* must plan and design its *facilities* and ensure that they are operated to comply with:
  - (1) the *performance standards* applicable to those *facilities*;
  - (2) subject to subparagraph (1), its *connection agreement* applicable to those *facilities*; and
  - (3) subject to subparagraph (2), the *system standards*.
- (b) An *Integrated Resource Provider* must:
  - (1) submit an *application to connect* in respect of new *generating plant* (including an *integrated resource system*) owned, operated or controlled by the *Integrated Resource Provider*, or to be owned, operated or controlled by the *Integrated Resource Provider*, and enter into a *connection agreement* with a *Network Service Provider* in accordance with rule 5.3 prior to that *generating plant* being *connected* to the *network* of that provider;
  - (2) comply with the reasonable requirements of the relevant *Network Service Provider* in respect of design requirements of *generating plant* proposed to be *connected* to the *network* of that provider in accordance with rule 5.6 and schedule 5.2;
  - (3) provide *generation* forecast information to the relevant *Network Service Provider* in accordance with Part D of Chapter 5;
  - (4) permit and participate in inspection and testing of *facilities* and equipment in accordance with rule 5.7;
  - (5) permit and participate in commissioning of *facilities* and equipment which are to be *connected* to a *network* for the first time in accordance with rule 5.8; and
  - (6) give notice of intended voluntary permanent *disconnection* in accordance with rule 5.9.
- (c) An *Integrated Resource Provider* must comply with any terms and conditions of a *connection agreement* for its *generating system* or *integrated resource system* that provide for the implementation, operation, maintenance or performance of a *system strength remediation scheme*.
- (d) If in *AEMO's* reasonable opinion, there is a risk that an *Integrated Resource Provider's plant* will:
  - (1) adversely affect *network capability*, *power system security*, quality or reliability of *supply* or *inter-regional power transfer capability*;

- (2) adversely affect the use of a *network* by a *Network User*; or
- (3) have an *adverse system strength impact*,

*AEMO* may request the *Integrated Resource Provider* to provide information of the type described in clause S5.2.4, and following such a request, the *Integrated Resource Provider* must provide the information to *AEMO* and the relevant *Network Service Provider(s)* in accordance with the requirements and circumstances specified in the *Power System Model Guidelines*, the *Power System Design Data Sheet* and the *Power System Setting Data Sheet*.

- (e) If in *AEMO's* reasonable opinion, information of the type described in clause S5.2.4 is required to enable a *Network Service Provider* to conduct the assessment required by clause 5.3.4B, *AEMO* may request the *Integrated Resource Provider* to provide the information, and following such a request, the *Integrated Resource Provider* must provide the information to *AEMO* and the relevant *Network Service Provider*.
- (f) All information provided to *AEMO* and the relevant *Network Service Provider(s)* under paragraphs (d) and (e) must be treated as *confidential information* by those recipients.

### **[16] Clause 5.2A.3 Connection and access to transmission services**

In clause 5.2A.3(c), omit "*generating plant*" and substitute "*generating system or integrated resource system*".

### **[17] Clause 5.2A.6 Negotiating principles**

After clause 5.2A.6(b)(2), insert a new clause 5.2A.6(b)(2A) as follows:

- (2A) where a *Connection Applicant* seeks access to a *shared transmission service* and *jurisdictional electricity legislation* is, or may be, an impediment to the provision of the service as a *negotiated transmission service*, where requested by the *Connection Applicant*:
  - (i) provide information to the *Connection Applicant* about the nature of the issue and how it may be addressed; and
  - (ii) provide reasonable assistance to the *Connection Applicant* in connection with any governmental or regulatory approvals or coordination with the *jurisdictional planning body* required to address the issue;

**[18] Clause 5.3.1 Process and procedures**

In clause 5.3.1(c), omit "wishing to alter *connected generating plant*" and substitute "or *Integrated Resource Provider* wishing to alter any *connected generating system* or *integrated resource system*".

**[19] Clause 5.3.1A Application of rule to connection of embedded generating units**

Omit the heading of clause 5.3.1A and substitute:

**5.3.1A Application of rule to connection of distribution connected systems**

**[20] Clause 5.3.1A Application of rule to connection of distribution connected systems**

In clause 5.3.1A(b), omit "an *embedded generating unit*" and substitute "a *generating system* or an *integrated resource system* to a *distribution network*".

**[21] Clause 5.3.1A Application of rule to connection of distribution connected systems**

In clause 5.3.1A(c)(1), omit "an *Embedded Generator*" and substitute "a *Distribution Connected Resource Provider*".

**[22] Clause 5.3.1A Application of rule to connection of distribution connected systems**

In clause 5.3.1A(c)(2), omit "in respect of an *embedded generating unit*" and substitute "or *Integrated Resource Provider* in respect of a *generating system* or an *integrated resource system*".

**[23] Clause 5.3.1A Application of rule to connection of distribution connected systems**

In clause 5.3.1A(c)(3), omit "*non-registered embedded generator*" and substitute "*non-registered DER provider*".

**[24] Clause 5.3.1A Application of rule to connection of distribution connected systems**

In clause 5.3.1A(c)(4), omit "*non-registered embedded generator*" and substitute "*non-registered DER provider*".

**[25] Clause 5.3.1A Application of rule to connection of distribution connected systems**

In clause 5.3.1A(c), in the last paragraph, after "in relation to any *generating systems*", insert "or *integrated resource systems*".

**[26] Clause 5.3.4A Negotiated access standards**

In clause 5.3.4A(b)(1A), after "by a *Generator*", insert "or *Integrated Resource Provider*".

**[27] Clause 5.3.4A Negotiated access standards**

In clause 5.3.4A(b)(1A), after "to the *generating system*", insert "or *integrated resource system*".

**[28] Clause 5.3.4B System strength mitigation requirement**

In clause 5.3.4B(a)(1), after "a proposed new *connection of a generating system*", insert ", *integrated resource system*".

**[29] Clause 5.3.4B System strength mitigation required**

In clause 5.3.4B(a)(3), after "alteration to a *generating system*", insert "or *integrated resource system*".

**[30] Clause 5.3.4B System strength remediation for new connections**

In clause 5.3.4B(a1), after "a *Generator*", insert "or an *Integrated Resource Provider*".

**[31] Clause 5.3.4B System strength mitigation requirement**

In clause 5.3.4B(a2), after "alteration to a *generating system*", insert ", *integrated resource system*".

**[32] Clause 5.3.4B System strength mitigation requirement**

In clause 5.3.4B(a4), after "alteration to a *generating system*", insert ", *integrated resource system*".

**[33] Clause 5.3.4B System strength mitigation requirement**

In clause 5.3.4B(b1), after "to the *generating system*", insert ", *integrated resource system*".

**[34] Clause 5.3.4B System strength mitigation requirement**

In clause 5.3.4B(c)(4), after "a *Generator*", insert "or *Integrated Resource Provider*".



**[35] Clause 5.3.4B System strength mitigation requirement**

In clause 5.3.4B(c)(4), after "alteration to a *generating system*", insert "or *integrated resource system*".

**[36] Clause 5.3.6 Offer to connect**

In clause 5.3.6(j), omit "an *Embedded Generator*" and substitute "a *Distribution Connected Resource Provider*".

**[37] Clause 5.3.7 Finalisation of connection agreements and network operating agreements**

In clause 5.3.7(g)(2), omit "if a *Generator*", and substitute "if the *Registered Participant* is a *Generator* or *Integrated Resource Provider*".

**[38] Clause 5.3.9 Procedure to be followed by a Generator proposing to alter a generating system**

Omit the heading of clause 5.3.9 and substitute:

**5.3.9 Alteration of a generating system or integrated resource system**

**[39] Clause 5.3.9 Alteration of a generating system or integrated resource system**

Omit clause 5.3.9(a) and substitute:

- (a) This clause 5.3.9 applies where:
  - (1) a *Generator* or *Integrated Resource Provider* proposes to alter a *connected generating system* or a *generating system* for which *performance standards* have been previously accepted by the *Network Service Provider* and *AEMO* (in relation to *AEMO advisory matters*) and that alteration:
    - (i) will affect the performance of the *generating system* relative to any of the technical requirements set out in clauses S5.2.5, S5.2.6, S5.2.7 and S5.2.8; or
    - (ii) will, in *AEMO's* reasonable opinion, have an *adverse system strength impact*; or
    - (iii) will, in *AEMO's* reasonable opinion, adversely affect *network capability, power system security, quality or reliability of supply, inter-regional power transfer capability* or the use of a *network* by another *Network User*.

- (2) an *Integrated Resource Provider* proposes to alter a *connected integrated resource system* or an *integrated resource system* for which *performance standards* have been previously accepted by the *Network Service Provider* and *AEMO* (in relation to *AEMO advisory matters*) and that alteration:
  - (i) will affect the performance of the *integrated resource system* relative to any of the technical requirements set out in clauses S5.2.5, S5.2.6, S5.2.7 and S5.2.8; or
  - (ii) will, in *AEMO's* reasonable opinion, have a *general system strength impact*; or
  - (iii) will, in *AEMO's* reasonable opinion, adversely affect *network capability, power system security, quality or reliability of supply, inter-regional power transfer capability* or the use of a *network* by another *Network User*.

**[40] Clause 5.3.9      Alteration of a generating system or integrated resource system**

In clause 5.3.9(b), after "A *Generator*", insert "or *Integrated Resource Provider*".

**[41] Clause 5.3.9      Alteration of a generating system or integrated resource system**

In clause 5.3.9(b)(1), after "the nature of the", insert "proposed".

**[42] Clause 5.3.9      Alteration of a generating system or integrated resource system**

After clause 5.3.9(b)(2), insert:

- (2A) in respect of the proposed alteration to the *integrated resource system*, details of the *bidirectional unit* and where applicable *generating unit* design data and setting data in accordance with the *Power System Model Guidelines, Power System Design Data Sheet* and *Power System Setting Data Sheet*;

**[43] Clause 5.3.9      Alteration of a generating system or integrated resource system**

In clause 5.3.9(b)(3), after "the *generating system*", insert "or *integrated resource system*".

**[44] Clause 5.3.9      Alteration of a generating system or integrated resource system**

In clause 5.3.9(b)(4), after "the *Generator's*", insert "or *Integrated Resource Provider's*".

**[45] Clause 5.3.9            Alteration of a generating system or integrated resource system**

In clause 5.3.9(c), after "a *Generator*", insert "or *Integrated Resource Provider*".

**[46] Clause 5.3.9            Alteration of a generating system or integrated resource system**

In clause 5.3.9(c1), after each occasion of "*Generator*", insert "or *Integrated Resource Provider*".

**[47] Clause 5.3.9            Alteration of a generating system or integrated resource system**

In clause 5.3.9(d), after "the performance of the *generating system*", insert "or *integrated resource system*".

**[48] Clause 5.3.9            Alteration of a generating system or integrated resource system**

In clause 5.3.9(h), after "the *Generator*", insert "or *Integrated Resource Provider*".

**[49] Clause 5.3.10          Acceptance of performance standards for generating plant that is altered**

In the heading of clause 5.3.10, omit "generating".

**[50] Clause 5.3.10          Acceptance of performance standards for plant that is altered**

After clause 5.3.10(a), insert:

- (a1) An *Integrated Resource Provider* must not commission altered *plant* comprised in an *integrated resource system* (including *generating plant*) until the *Network Service Provider* has advised the *Integrated Resource Provider* that the provider and *AEMO* are satisfied in accordance with paragraph (b).

**[51] Clause 5.3.10          Acceptance of performance standards for plant that is altered**

In clause 5.3.10(b), omit "*generating plant*" and substitute "*plant*".

**[52] Clause 5.3.10          Acceptance of performance standards for plant that is altered**

In clause 5.3.10(b), after all references to "the *Generator*", insert "or *Integrated Resource Provider*".

**[53] Rule 5.3A                      Establishing or modifying connection -  
embedded generation**

In the heading of rule 5.3A, omit "**embedded generation**" and substitute "**distribution connected systems**".

**[54] Clause 5.3A.1            Application of rule 5.3A**

Omit clause 5.3A.1(b) and substitute:

- (b) Where a *Connection Applicant* wishes to connect a *generating system* or an *integrated resource system* to a *distribution network*, this rule 5.3A applies.

**[55] Clause 5.3A.1            Application of rule 5.3A**

In clause 5.3A.1(c)(1)(i), omit "an *Embedded Generator*" and substitute "a *Distribution Connected Resource Provider*".

**[56] Clause 5.3A.1            Application of rule 5.3A**

In clause 5.3A.1(c)(1)(ii), omit "in respect of an *embedded generating unit*" and substitute "or *Integrated Resource Provider* in respect of a *generating system* or *integrated resource system*".

**[57] Clause 5.3A.1            Application of rule 5.3A**

In clause 5.3A.1(c)(1)(iii), omit "*non-registered embedded generator*" and substitute "*non-registered DER provider*".

**[58] Clause 5.3A.1            Application of rule 5.3A**

In clause 5.3A.1(c)(1)(iv), omit "*non-registered embedded generator*" and substitute "*non-registered DER provider*".

**[59] Clause 5.3A.1            Application of rule 5.3A**

In the final paragraph of clause 5.3A.1(c)(1), after "in relation to any *generating systems*", insert "or *integrated resource systems*".

**[60] Clause 5.3A.3            Publication of information**

In clause 5.3A.3(a)(1), omit "an *embedded generating unit*" and substitute "a *generating system* or an *integrated resource system* to a *distribution network*".

**[61] Clause 5.3A.3            Publication of information**

In clause 5.3A.3(a)(2), omit "embedded generation" and substitute "distribution connected resource".

**[62] Clause 5.3A.3 Publication of information**

In clause 5.3A.3(b)(1), omit "for an *embedded generating unit*" and substitute "under this rule".

**[63] Clause 5.3A.3 Publication of information**

In clause 5.3A.3(b)(1)(v), omit "for an *embedded generating unit*" and substitute "under this rule".

**[64] Clause 5.3A.3 Publication of information**

Omit clause 5.3A.3(b)(2) and substitute:

- (2) single line diagrams of the *Distribution Network Service Provider's* preferred *connection* arrangements, and a range of other possible connection arrangements for integration of a *generating system* or an *integrated resource system*, showing the *connection point*, the point of common coupling, the *distribution connected unit(s)*, other sources of *load, meter(s)*, circuit breaker(s) and isolator(s);

**[65] Clause 5.3A.3 Publication of information**

In clause 5.3A.3(b)(3), omit "of an *embedded generating unit*".

**[66] Clause 5.3A.3 Publication of information**

In clause 5.3A.3(b)(4), omit "*embedded generating units*" and substitute "a *generating system* or an *integrated resource system*".

**[67] Clause 5.3A.3 Publication of information**

In clause 5.3A.3(b)(5), omit "to *embedded generating units* and *generating plant*".

**[68] Clause 5.3A.3 Publication of information**

In clause 5.3A.3(b)(6)(ix), omit "an *embedded generating unit*" and substitute "a *generating system* or an *integrated resource system*".

**[69] Clause 5.3A.10 Preparation of offer to connect**

In clause 5.3A.10(c), omit "*embedded generating units* having a nameplate rating" and substitute "*distribution connected units* having a nameplate rating".

**[70] Clause 5.3A.12 Network support payments and functions**

In clause 5.3A.12(a), omit "an *Embedded Generator*" and substitute "a *Distribution Connected Resource Provider*".

**[71] Clause 5.3A.12 Network support payments and functions**

In the subparagraphs of clause 5.3A.12(a), omit each occasion of "*Embedded Generator*" and substitute "*Distribution Connected Resource Provider*".

**[72] Clause 5.3A.12 Network support payments and functions**

In clause 5.3A.12(b)(1), after each occasion of "the *generating unit*", insert "or *bidirectional unit*".

**[73] Rule 5.3AA Access arrangements relating to Distribution Networks**

At the end of rule 5.3AA(a)(1), omit "and".

**[74] Rule 5.3AA Access arrangements relating to Distribution Networks**

In rule 5.3AA(a)(2)(i), omit "an *Embedded Generator*" and substitute "a *Distribution Connected Resource Provider*".

**[75] Rule 5.3AA Network support payments and functions**

In rule 5.3AA(a)(2)(iii), omit "*non-registered embedded generator*" and substitute "*non-registered DER provider*".

**[76] Rule 5.3AA Network support payments and functions**

In rule 5.3AA(a)(2), in the closing paragraph, omit "*generating units* or group of *generating units*" and substitute "*generating system* or *integrated resource system*".

**[77] Rule 5.3AA Network support payments and functions**

Omit rule 5.3AA(c)(1)(i) and substitute:

- (i) its *distribution connected units* (in case of a *Distribution Connected Resource Provider*);

**[78] Rule 5.3AA Network support payments and functions**

Omit rule 5.3AA(d)(1) and substitute:

- (1) in the case of a *Distribution Connected Resource Provider*, the greater of the maximum output or *maximum demand* of the relevant *distribution connected units* or group of *distribution connected units*; and

**[79] Rule 5.3AA Network support payments and functions**

In rule 5.3AA(f)(3), omit "use of *system services*".

**[80] Rule 5.3AA Network support payments and functions**

In the closing paragraph of rule 5.3AA(f)(3), omit "*negotiated use of system charges*" and substitute "*negotiated augmentation and extension charges*".

**[81] Rule 5.3AA Network support payments and functions**

Omit rule 5.3AA(f)(4)(ii) and substitute:

- (ii) where the *Connection Applicant* is a *Distribution Connected Resource Provider*:
  - (A) the compensation to be provided by the *Distribution Network Service Provider* to the *Distribution Connected Resource Provider* in the event that the *distribution connected units* or group of *distribution connected units* of the *Distribution Connected Resource Provider* are *constrained off* or *constrained on* during a *trading interval*; and
  - (B) the compensation to be provided by the *Distribution Connected Resource Provider* to the *Distribution Network Service Provider* in the event that dispatch of the *Distribution Connected Resource Provider's distribution connected units* or group of *distribution connected units* causes another *Generator's* or *Integrated Resource Provider's production units* or group of *production units* to be *constrained off* or *constrained on* during a *trading interval*; and

**[82] Rule 5.3AA Network support payments and functions**

In rule 5.3AA(f)(iii)(B), omit "*generating units* or group of *generating units*" and substitute "*or Integrated Resource Provider's production units* or group of *production units*".

**[83] Rule 5.3AA Network support payments and functions**

In rule 5.3AA(g), omit "*negotiated use of system charges*" and substitute "*negotiated augmentation and extension charges*".

**[84] Rule 5.3AA Network support payments and functions**

Omit rule 5.3AA(i)(1)(i) and substitute:

- (i) where the *Connection Applicant* is a *Distribution Connected Resource Provider*, if that *Distribution Connected Resource Provider* had not injected any energy at its *connection point* during that *financial year*;



**[85] Clause 5.6.2 Advice of inconsistencies**

In clause 5.6.2, including its paragraphs, after each occasion of "a *Generator*", insert "or *Integrated Resource Provider*".

**[86] Clause 5.7.3 Tests to demonstrate compliance with connection requirements for generators**

In the heading of clause 5.7.3, omit "generators" and substitute "Generators and Integrated Resource Providers".

**[87] Clause 5.7.3 Tests to demonstrate compliance with connection requirements for Generators and Integrated Resource Providers**

After clause 5.7.3(a), insert:

- (a1) Each *Integrated Resource Provider* must, in accordance with the time frames specified in rule 4.15, provide evidence to any relevant *Network Service Provider* with which that *Integrated Resource Provider* has a *connection agreement* and to *AEMO*, that its *generating system* or *integrated resource system* (as applicable) complies with:
  - (1) the applicable technical requirements of clause S5.2.5; and
  - (2) the relevant *connection agreement* including the *performance standards*.

**[88] Clause 5.7.3 Tests to demonstrate compliance with connection requirements for Generators and Integrated Resource Providers**

In clause 5.7.3(c), omit "clause 5.7.3(a)" and substitute "paragraph (a) or (a1)".

**[89] Clause 5.7.3 Tests to demonstrate compliance with connection requirements for Generators and Integrated Resource Providers**

In clause 5.7.3(c), after "that a *generating system*", insert "or *integrated resource system*".

**[90] Clause 5.7.3 Tests to demonstrate compliance with connection requirements for Generators and Integrated Resource Providers**

In clause 5.7.3(c), after "then the *Generator*", insert "or *Integrated Resource Provider*".

**[91] Clause 5.7.3 Tests to demonstrate compliance with connection requirements for Generators and Integrated Resource Providers**

In clause 5.7.3(d), after "that a *generating system*", insert "or *integrated resource system*".

**[92] Clause 5.7.3 Tests to demonstrate compliance with connection requirements for Generators and Integrated Resource Providers**

In clause 5.7.3(d), after each occasion of "*generating system*", insert "or *integrated resource system*".

**[93] Clause 5.7.3 Tests to demonstrate compliance with connection requirements for Generators and Integrated Resource Providers**

In clause 5.7.3(d), after "may instruct the *Generator*", insert "or *Integrated Resource Provider*".

**[94] Clause 5.7.3 Tests to demonstrate compliance with connection requirements for Generators and Integrated Resource Providers**

In clause 5.7.3(e), after "the *generating system*", insert "or *integrated resource system*".

**[95] Clause 5.7.3 Tests to demonstrate compliance with connection requirements for Generators and Integrated Resource Providers**

In clause 5.7.3(e), after "the *Generator*", insert "or *Integrated Resource Provider*".

**[96] Clause 5.7.3 Tests to demonstrate compliance with connection requirements for Generators and Integrated Resource Providers**

In clause 5.7.3(f)(1)(i) after "a *generating system*", insert "or *integrated resource system*".

**[97] Clause 5.7.3 Tests to demonstrate compliance with connection requirements for Generators and Integrated Resource Providers**

In clause 5.7.3(f)(1)(ii) after "a *generating system's*", insert "or *integrated resource system's*".

**[98] Clause 5.7.3 Tests to demonstrate compliance with connection requirements for Generators and Integrated Resource Providers**

In clause 5.7.3(f)(2), after each occasion of "the *generating system*", insert "or *integrated resource system*".

**[99] Clause 5.7.3 Tests to demonstrate compliance with connection requirements for Generators and Integrated Resource Providers**

In clause 5.7.3(f), omit the last paragraph and substitute:

*AEMO* may:

- (3) (in the case of a *generating system*) direct the relevant *Generator* or *Integrated Resource Provider* to operate the *generating system* at a particular *generated* output or in a particular mode; or
- (4) (in the case of an *integrated resource system*) direct the relevant *Integrated Resource Provider* to operate the *integrated resource system* at a particular level of *active power*, or a particular pattern or profile of *active power*, or in a particular mode,

until the relevant *Generator* or *Integrated Resource Provider* submits evidence reasonably satisfactory to *AEMO* that the *generating system* or *integrated resource system* is complying with the relevant *performance standard* and performing substantially in accordance with the applicable analytical model.

**[100] Clause 5.7.3 Tests to demonstrate compliance with connection requirements for Generators and Integrated Resource Providers**

In clause 5.7.3(g), after "Each *Generator*", insert "and *Integrated Resource Provider*".

**[101] Clause 5.7.3 Tests to demonstrate compliance with connection requirements for Generators and Integrated Resource Providers**

In clause 5.7.3(g), after "for each of its *generating systems*", insert ", *integrated resource systems*".

**[102] Clause 5.7.6 Tests of generating units requiring changes to normal operation**

Omit the heading of clause 5.7.6 and substitute:

**5.7.6 Tests of production units requiring changes to normal operation**

**[103] Clause 5.7.6 Tests of production units requiring changes to normal operation**

Omit clause 5.7.6(a) and substitute:

- (a) A *Network Service Provider* may, at intervals of not less than 12 months per *generating system* or *integrated resource system*, require the testing by a *Generator* or *Integrated Resource Provider* of any *generating unit* or *bidirectional unit* connected to the *network* of that provider in order to determine analytic parameters for modelling purposes or to assess the performance of the relevant *generating unit*, *generating system*, *bidirectional unit* or *integrated resource system* for the purposes of a *connection agreement*, and that provider is entitled to witness such tests.

**[104] Clause 5.7.6 Tests of production units requiring changes to normal operation**

In clause 5.7.6(b), including its subparagraphs, omit all references to "*generating unit* or *generating system*" and substitute "*generating unit*, *generating system*, *bidirectional unit* or *integrated resource system*".

**[105] Clause 5.7.6 Tests of production units requiring changes to normal operation**

In the closing paragraph of clause 5.7.6(b), after "to require a *Generator*", insert "or *Integrated Resource Provider*".

**[106] Clause 5.7.6 Tests of production units requiring changes to normal operation**

In clause 5.7.6(c), after "to the *Generator*", insert "or *Integrated Resource Provider*".

**[107] Clause 5.7.6 Tests of production units requiring changes to normal operation**

In clause 5.7.6(e), after "a *Generator*", insert "or *Integrated Resource Provider*".

**[108] Clause 5.7.6 Tests of production units requiring changes to normal operation**

In clause 5.7.6(e), after "the relevant *generating unit*", insert "or *bidirectional unit*".

**[109] Clause 5.7.6 Tests of production units requiring changes to normal operation**

In clause 5.7.6(f), after "a *Generator*", insert "or *Integrated Resource Provider*".

**[110] Clause 5.7.6 Tests of production units requiring changes to normal operation**

In clause 5.7.6(f1), after "a *Generator*", insert "or *Integrated Resource Provider*".

**[111] Clause 5.7.6 Tests of production units requiring changes to normal operation**

In clause 5.7.6(g), after each occasion of "*Generator*", insert "or *Integrated Resource Provider*".

**[112] Clause 5.7.6 Tests of production units requiring changes to normal operation**

In clause 5.7.6(h), after each occasion of "*Generator*", insert "or *Integrated Resource Provider*".

**[113] Clause 5.7.6 Tests of production units requiring changes to normal operation**

In clause 5.7.6(i), after "The *Generator*", insert "or *Integrated Resource Provider*".

**[114] Clause 5.7.7 Inter-network power system tests**

In clause 5.7.7(a) table, row 3, in column 1, after "A new *generating unit*", insert "or *bidirectional unit*".

**[115] Clause 5.7.7 Inter-network power system tests**

In clause 5.7.7(a) table, row 3, in column 2, omit "*Generator* in respect of the *generating unit*" and substitute "*Generator* or *Integrated Resource Provider* in respect of the *generating unit* or *bidirectional unit*".

**[116] Clause 5.7.7 Inter-network power system tests**

In clause 5.7.7(a) table, row 3, in column 3, after "to which the *generating unit*", insert ", *bidirectional unit*".

**[117] Clause 5.7.7 Inter-network power system tests**

In clause 5.7.7(a) table, row 4, in column 1, after "as a result of a *generating unit*", insert ", *bidirectional unit*".

**[118] Clause 5.7.7 Inter-network power system tests**

In clause 5.7.7(a) table, row 4, in column 2, after "*Generator*", insert "or *Integrated Resource Provider*".

**[119] Clause 5.7.7 Inter-network power system tests**

In clause 5.7.7(a) table, row 4, in column 2, after the first paragraph, insert a new paragraph "*Integrated Resource Provider* in respect of the *bidirectional unit*".

**[120] Clause 5.7.7 Inter-network power system tests**

In clause 5.7.7(a) table, row 4, in column 3, after "to which the *generating unit*", insert ", *bidirectional unit*".

**[121] Clause 5.7.7 Inter-network power system tests**

In clause 5.7.7(d), omit "*scheduled generating unit, a semi-scheduled generating unit, a scheduled load or a market network service*" and substitute "*scheduled resource (other than a wholesale demand response unit)*".

**[122] Clause 5.7.7 Inter-network power system tests**

In clause 5.7.7(e), after "*generating unit*", insert ", *bidirectional unit*".

**[123] Clause 5.9.3 Involuntary disconnection**

In clause 5.9.3(a), omit "*market loads*" and substitute "*market connection points*".

**[124] Clause 5.9.3 Involuntary disconnection**

In clause 5.9.3(d), omit "*market loads*" and substitute "*market connection points*".

**[125] Clause 5.9.4A Notification of disconnection**

In clause 5.9.4A, omit "*market loads*" and substitute "*market connection points*".

**[126] Clause 5.10.1 Content of Part D**

In clause 5.10.1(j1), after "a register of large generator", insert "and bidirectional".

**[127] Clause 5.10.1 Content of Part D**

In clause 5.10.1(j2), omit "embedded generation" and substitute "distribution connected resource".

**[128] Clause 5.11.1 Forecasts for connection to transmission network**

In clause 5.11.1(b), omit "*generating units, market network services and loads*" and substitute "*sources of generation or load or market network services*".

**[129] Clause 5.13.1 Distribution annual planning review**

In clause 5.13.1(d)(1)(vi), omit "*embedded generating units*" and substitute "*distribution connected units*".

**[130] Clause 5.13.1 Distribution annual planning review**

In clause 5.13.1(d)(2)(i) omit "*embedded generating units*" and substitute "*distribution connected units*".

**[131] Clause 5.13.1 Distribution annual planning review**

In clause 5.13.1(d1), omit "*embedded generating units*" and substitute "*distribution connected units*".

**[132] Clause 5.13.1 Distribution annual planning review**

In clause 5.13.1(d1)(3)(iii), "*embedded generating units*" and substitute "*distribution connected units*".

**[133] Clause 5.15A.2 Principles for RIT-T projects which are not actionable ISP projects**

In clause 5.15A.2(b)(9), after "benefit to *Generators*," insert "*Integrated Resource Providers*,".

**[134] Clause 5.17.1 Principles**

In clause 5.17.1(c)(4)(v), omit "*embedded generating units*", insert "or *distribution connected units*".

**[135] Clause 5.17.1 Principles**

In clause 5.17.1(c)(8), after "in their capacity as *Generators*," insert "*Integrated Resource Providers*,".

**[136] Rule 5.18A Large generator connections**

In the heading of rule 5.18A, after "**Large generator**", insert "**and large bidirectional**".

**[137] Clause 5.18A.1 Definitions**

In clause 5.18A.1(a), in the definition of "**assessment date**", omit all references to "large generator connection" and substitute "large connection".

**[138] Clause 5.18A.1 Definitions**

In clause 5.18A.1(a), in the definition of "**commissioning date**", omit all references to "large generator connection" and substitute "large connection".



### **[139] Clause 5.18A.1 Definitions**

In clause 5.18A.1(a), insert the following definitions in alphabetical order:

**large bidirectional connection** means *bidirectional units* that:

- (1) have a *nameplate rating* of 5MW or greater; or
- (2) are part of a group of *bidirectional units connected* at a common *connection point* with a combined *nameplate rating* of 5 MW or greater,

which are owned, operated or controlled by an *Integrated Resource Provider* and are connected to the *Transmission Network Service Provider's network*.

**large connection** means a large generator connection or a large bidirectional connection, or a *generating system* or *integrated resource system* that include one or more large generator connections or large bidirectional connections.

### **[140] Clause 5.18A.1 Definitions**

In clause 5.18A.1, in the definition of "**large generator connection**", after "operated or controlled by a *Generator*", insert "or *Integrated Resource Provider*".

### **[141] Clause 5.18A.2 Register of large generator connections**

In the heading of clause 5.18A.2, after "**large generator**", insert "**and bidirectional**".

### **[142] Clause 5.18A.2 Register of large generator and bidirectional connections**

In clause 5.18A.2(a), omit "large generator connections" and substitute "large connections".

### **[143] Clause 5.18A.2 Register of large generator and bidirectional connections**

In clause 5.18A.2(a), including all its subparagraphs, omit all references to "large generator connection" and substitute "large connection".

### **[144] Clause 5.18A.2 Register of large generator and bidirectional connections**

In clause 5.18A.2(a), in its subparagraphs, after each occasion of "*Generator*", insert "or *Integrated Resource Provider*".

**[145] Clause 5.18A.2 Register of large generator and bidirectional connections**

In clause 5.18A.2(a), in its subparagraphs, omit all references to "*generating units*" and substitute "*production units*".

**[146] Clause 5.18A.2 Register of large generator and bidirectional connections**

In clause 5.18A.2(c), including its subparagraphs, omit all references to "large generator connections" and substitute "large connections".

**[147] Clause 5.18A.3 Impact assessment of large generator connections**

In the heading of clause 5.18A.3, omit "**large generator connections**" and substitute "**large connections**".

**[148] Clause 5.18A.3 Impact assessment of large connections**

In clause 5.18A.3(a), (c) and (d), omit all references to "large generator connection" and substitute "large connection".

**[149] Rule 5.18B Completed embedded generation projects**

In the heading of rule 5.18B, omit "**embedded generation**" and substitute "**distribution connected resource**".

**[150] Clause 5.18B.1 Definitions**

In clause 5.18B.1(a), omit the definition "**completed embedded generation projects**" in its entirety and substitute:

**completed distribution connected resource projects** means a *generating system* or *integrated resource system* connected to a *distribution network* and owned, operated or controlled by:

- (1) a *Distribution Connected Resource Provider*; or
- (2) a person who was required to apply to *AEMO* for an exemption from the requirement to register as a *Generator* or *Integrated Resource Provider* in respect of the system,

and are connected to the *Distributor Network Service Provider's network*.

**[151] Clause 5.18B.2 Register of completed embedded generation projects**

In the heading of clause 5.18B.2, omit "embedded generation" and substitute "distribution connection resource".

**[152] Clause 5.18B.2 Register of completed distribution connected resource projects**

In clause 5.18B.2(a), omit "embedded generation projects" and substitute "distribution connected resource projects".

**[153] Clause 5.18B.2 Register of completed distribution connected resource projects**

In clause 5.18B.2(a)(1), omit "*generating unit*" and substitute "each *distribution connected unit* comprised in the project".

**[154] Clause 5.18B.2 Register of completed distribution connected resource projects**

Omit clause 5.18B.2(a)(2) and substitute:

- (2) maximum power *generation* capacity of all *distribution connected units* comprised in the system;

**[155] Clause 5.18B.2 Register of completed distribution connected resource projects**

In clause 5.18B.2(c), in its subparagraphs, omit all references to "embedded generation projects" and substitute "distribution connected resource projects".

**[156] Clause 5.19.1 Definitions**

In clause 5.19.1, in the definition of "forecast generation scenarios", after "future connections of *generating systems*", insert "and *integrated resource systems*".

**[157] Clause 5.19.1 Definitions**

In clause 5.19.1, in the definition of "Scale Efficient Network Extension", after "two or more *generating systems*", insert "or *integrated resource systems*".

**[158] Clause 5.19.1 Definitions**

In clause 5.19.1, in the definition of "SENE Design and Costing Study", after "cost of forecast connections of *generating systems*", insert "and *integrated resource systems*".

**[159] Clause 5.19.4 Content of SENE Design and Costing Study**

In clause 5.19.4(a), after each occasion of "*generating systems*", insert "and *integrated resource systems*".

**[160] Clause 5.19.4 Content of SENE Design and Costing Study**

In clause 5.19.4(b)(2), after "the point at which *generating systems*", insert "or *integrated resource systems*".

**[161] Clause 5.19.4 Content of SENE Design and Costing Study**

In clause 5.19.4(b)(7), after each occasion of "*connections of generating systems*", insert "and *integrated resource systems*".

**[162] Clause 5.20.6 Publication of system strength requirements methodologies**

In clause 5.20.6(e)(4), after "*load shedding or generating system*", insert ", *integrated resource system*".

**[163] Clause 5.20.6 Publication of system strength requirements methodologies**

In clause 5.20.6(e)(5), omit "*synchronous generating unit*" and substitute "*synchronous production unit*".

**[164] Clause 5.20B.4 Inertia Service Provider to make available inertia services**

In clause 5.20B.4(d)(2), omit "*synchronous generating unit*" and substitute "*synchronous production unit*".

**[165] Clause 5.20B.5 Inertia support activities**

In clause 5.20B.5(a)(3), in the "Note", after "with *Generators*", insert "or *Integrated Resource Providers*".

**[166] Clause 5.20B.5 Inertia support activities**

In clause 5.20B.5(a)(3), in the "Note", omit "*generating units*" and substitute "*production units*".

**[167] Clause 5.20B.6 Inertia network services information and approvals**

In clause 5.20B.6(b), after "from a *Generator*", insert "or *Integrated Resource Provider*".

**[168] Clause 5.20B.6 Inertia network services information and approvals**

In clause 5.20B.6(b), omit "*inertia generating unit*" and substitute "*inertia unit*".

**[169] Clause 5.20B.6 Inertia network services information and approvals**

After clause 5.20B.6(b), insert:

- (b1) Where the *Inertia Service Provider* procures *inertia network services* from an *Integrated Resource Provider* provided by means of a *bidirectional unit* under an *inertia services agreement*, the *Inertia Service Provider* must register the *bidirectional unit* with AEMO as an *inertia unit* and specify that the *bidirectional unit* may be periodically used to provide *inertia network services* and will not be eligible to set *spot prices* when *constrained on* to provide *inertia* in accordance with clause 3.9.7(c).

**[170] Clause 5.20B.6 Inertia network services information and approvals**

In clause 5.20B.6(c)(1)(ii), omit "*generating unit*" and substitute "*inertia unit*".

**[171] Clause 5.20C.4 System strength services information and approvals**

In clause 5.20C.4(b), after "from a *Generator*", insert "or *Integrated Resource Provider*".

**[172] Clause 5.20C.4 System strength services information and approvals**

In clause 5.20C.4(b), omit "*system strength generating unit*" and substitute "*system strength production unit*".

**[173] Clause 5.20C.4 System strength services information and approvals**

After clause 5.20C.4(b), insert:

- (b1) Where the *System Strength Service Provider* procures *system strength services* from an *Integrated Resource Provider* provided by means of a *bidirectional unit* under a *system strength services agreement*, the *System Strength Service Provider* must register the *bidirectional unit*

with *AEMO* as a *system strength production unit* and specify that the *bidirectional unit* may be periodically used to provide *system strength services* and will not be eligible to set *spot prices* when *constrained on* to provide *system strength services* in accordance with clause 3.9.7(c).

**[174] Clause 5.20C.4 System strength services information and approvals**

In clause 5.20C.4(c)(1)(ii), omit "*generating unit*" and substitute "*system strength production unit*".

**[175] Clause S5.1.2.1 Credible contingency events**

In clause S5.1.2.1, omit "*generating units*" and substitute "*production units*".

**[176] Clause S5.1.2.1 Credible contingency events**

In clause S5.1.2.1(a), omit "*generating unit*" and substitute "*production unit*".

**[177] Clause S5.1.2.2 Network service within a region**

In clause S5.1.2.2, omit "*generating units*" and substitute "*production units*".

**[178] Clause S5.1.7 Voltage unbalance**

In clause S5.1.7(c), after "that each *Generator*", insert "and *Integrated Resource Provider*".

**[179] Clause S5.1.7 Voltage unbalance**

In clause S5.1.7(c), including its subparagraph, after each occasion of "*generating system*", insert "or *integrated resource system*".

**[180] Clause S5.1.10.1a Emergency frequency control schemes**

In clause S5.1.10.1a(d)(1), omit "a *Network Service Provider*" and substitute "A *Network Service Provider*".

**[181] Clause S5.1.10.1a Emergency frequency control schemes**

In clause S5.1.10.1a(d)(1), omit each occasion of "*Generator's generating unit*" and substitute "person's *production units*".

**[182] Clause S5.1.10.1a Emergency frequency control schemes**

In clause S5.1.10.1a(d) and its subparagraphs, after each occasion of "*Generator*", insert "or *Integrated Resource Provider*".

**[183] Clause S5.1.10.1a Emergency frequency control schemes**

In clause S5.1.10.1a(d)(2), omit "must request the *Generator*" and substitute "must request the person".

**[184] Schedule 5.2 Conditions for Connection of Generators**

In the heading of schedule 5.2, after "Connection of Generators", insert "and Integrated Resource Providers".

**[185] Clause S5.2.1 Outline of requirements**

In clause S5.2.1(a), after "that *Generators*", insert "and *Integrated Resource Providers*".

**[186] Clause S5.2.1 Outline of requirements**

In clause S5.2.1(a), after "*connection of a generating system*", insert "or *integrated resource system*".

**[187] Clause S5.2.1 Outline of requirements**

In clause S5.2.1(b), after "in respect of a *generating system*", insert "or *integrated resource system*".

**[188] Clause S5.2.1 Outline of requirements**

In clause S5.2.1(b)(1), omit "under clause 2.2.1(c)" and substitute "or *Integrated Resource Provider* under clause 2.1A.2".

**[189] Clause S5.2.1 Outline of requirements**

In clause S5.2.1(b)(2) and (3), after each occasion of "that *generating system*", insert "or *integrated resource system*".

**[190] Clause S5.2.1 Outline of requirements**

In clause S5.2.1(c), omit "of the *Rules*, are obligations on *Generators*" and substitute "or clause 5.2.5A of the *Rules* (as applicable), are obligations on *Generators* and *Integrated Resource Providers*".

**[191] Clause S5.2.1 Outline of requirements**

In clause S5.2.1(d), after "with each *generating system*", insert "or *integrated resource system*".

**[192] Clause S5.2.1 Outline of requirements**

In clause S5.2.1(e), after "*Generators*", insert "and *Integrated Resource Providers*".



**[193] Clause S5.2.1 Outline of requirements**

In clause S5.2.1(f), after "by which a *Generator*", insert "or *Integrated Resource Provider*".

**[194] Clause S5.2.2 Application of Settings**

In clause S5.2.2, in the first paragraph, after each occasion of "A *Generator*", insert "or *Integrated Resource Provider*".

**[195] Clause S5.2.2 Application of Settings**

In clause S5.2.2, in the first paragraph, omit "*generating unit* to supply electricity to" and substitute "*production unit* to supply electricity to, or take electricity from,".

**[196] Clause S5.2.2 Application of Settings**

In clause S5.2.2, after each occasion of "*Generator*", insert "or *Integrated Resource Provider*".

**[197] Clause S5.2.2 Application of Settings**

In clause S5.2.2, in the second paragraph, omit "*generating unit*" and substitute "*production unit*".

**[198] Clause S5.2.2 Application of Settings**

In clause S5.2.2, in the third paragraph, omit "*generating unit's*" and substitute "*production unit's*".

**[199] Clause S5.2.3 Technical matters to be coordinated**

In clause S5.2.3 and all its paragraphs, after each occasion of "*Generator*", insert "or *Integrated Resource Provider*".

**[200] Clause S5.2.3 Technical matters to be coordinated**

In clause S5.2.3 and all its paragraphs and subparagraphs, after each occasion of "*generating system*", insert "or *integrated resource system*".

**[201] Clause S5.2.3 Technical matters to be coordinated**

In clause S5.2.3(b), after "a *generating system's*", insert "or *integrated resource system's*".

**[202] Clause S5.2.4 Provision of information**

In clause S5.2.4(a), after "A *Generator*", insert ", *Integrated Resource Provider*".

**[203] Clause S5.2.4 Provision of information**

In clause S5.2.4 and all its paragraphs and subparagraphs, after each occasion of "*generating system*", insert "*or integrated resource system*".

**[204] Clause S5.2.4 Provision of information**

Omit the opening paragraph of clause S5.2.4(b) and substitute:

- (b) A *Generator, Integrated Resource Provider* or person required under the *Rules* to register as the *Generator or Integrated Resource Provider* in respect of a *generating system* comprised of *generating units* with a combined *nameplate rating* of 30 MW or more, or an *integrated resource system* that (to the extent it comprises *bidirectional units*) is comprised of *bidirectional units* with a combined *nameplate rating* of 5 MW or more or (to the extent it comprises *generating units*) is comprised of *generating units* with a combined *nameplate rating* of 30 MW or more, by the earlier of:

**[205] Clause S5.2.4 Provision of information**

In clause S5.2.4(b)(3) and (4), after each occasion of "*a generating system*", insert "*or integrated resource system*".

**[206] Clause S5.2.4 Provision of information**

In clause S5.2.4(b)(5), omit "*an embedded generating unit*" and substitute "*a distribution connected unit*".

**[207] Clause S5.2.4 Provision of information**

In clause S5.2.4(b)(5), after each occasion of "*generating system*", insert "*or integrated resource system*".

**[208] Clause S5.2.4 Provision of information**

In clause S5.2.4(b)(5)(ii)(A), omit "*generating system output*" and substitute "*generating system output or integrated resource system output or consumption*".

**[209] Clause S5.2.4 Provision of information**

In clause S5.2.4(b)(8), omit "*an embedded generating unit*" and substitute "*a distribution connected unit*".

**[210] Clause S5.2.4 Provision of information**

In clause S5.2.4(c)(1), omit "*generating units*" and substitute "*production units*".

**[211] Clause S5.2.4 Provision of information**

In clause S5.2.4(c)(1), after each occasion of "part of the *generating system*", insert "or *integrated resource system*".

**[212] Clause S5.2.4 Provision of information**

In clause S5.2.4(c)(2), omit "*generating plant*" and substitute "relevant *plant*".

**[213] Clause S5.2.4 Provision of information**

In clause S5.2.4(d) and its subparagraph, after each occasion of "*Generator*", insert "or *Integrated Resource Provider*".

**[214] Clause S5.2.4 Provision of information**

In clause S5.2.4(d), omit "clause S5.2.4(b) and must provide" and substitute "paragraph (b) and must provide".

**[215] Clause S5.2.4 Provision of information**

In clause S5.2.4(d), omit "clause S5.2.4(b)(5)" and substitute "subparagraph (b)(5)".

**[216] Clause S5.2.4 Provision of information**

In clause S5.2.4(d1), after "A *Generator*", insert "or *Integrated Resource Provider*".

**[217] Clause S5.2.4 Provision of information**

In clause S5.2.4(e1) and its subparagraphs, after each reference to "*generating system*", insert "or *integrated resource system*".

**[218] Clause S5.2.5.1 Reactive power capability**

In clause S5.2.5.1(a), after each occasion of "*generating system*", insert "or *integrated resource system*".

**[219] Clause S5.2.5.1 Reactive power capability**

In clause S5.2.5.1(a)(1), omit "output".

**[220] Clause S5.2.5.1 Reactive power capability**

In clause S5.2.5.1(c), after "the *Generator*", insert "or *Integrated Resource Provider*".

**[221] Clause S5.2.5.1 Reactive power capability**

In clause S5.2.5.1(c)(1), after "the *reactive power capability* of the *generating system*", insert "or *integrated resource system*".

**[222] Clause S5.2.5.1 Reactive power capability**

In clause S5.2.5.1(c)(3), omit "output" and substitute "level".

**[223] Clause S5.2.5.1 Reactive power capability**

In clause S5.2.5.1(d) and all its subparagraphs, after each occasion of "*generating system*", insert "or *integrated resource system*".

**[224] Clause S5.2.5.1 Reactive power capability**

In clause S5.2.5.1(d), after "the *Generator*", insert "or *Integrated Resource Provider*".

**[225] Clause S5.2.5.1 Reactive power capability**

In clause S5.2.5.1(d)(2), after "*connecting at the generating system's*", insert "or *integrated resource system's*".

**[226] Clause S5.2.5.1 Reactive power capability**

In clause S5.2.5.1(e), after "The *Generator*", insert "or *Integrated Resource Provider*".

**[227] Clause S5.2.5.1 Reactive power capability**

In clause S5.2.5.1(f), after "the agreed value for *rated active power*", insert "and (for an *integrated resource system*) rated maximum demand".

**[228] Clause S5.2.5.1 Reactive power capability**

In clause S5.2.5.1(g), after "*energy by a generating system*", insert "or *integrated resource system* in respect of *auxiliary load*".

**[229] Clause S5.2.5.1 Reactive power capability**

In clause S5.2.5.1(g), after "as if the *Generator*", insert "or *Integrated Resource Provider*".

**[230] Clause S5.2.5.2 Quality of electricity generated**

In clause S5.2.5.2(a), omit "*synchronous generating unit*" and substitute "*synchronous production unit*".

**[231] Clause S5.2.5.2 Quality of electricity generated**

Omit the opening paragraph of clause S5.2.5.2(b) and substitute:

- (b) The *automatic access standard* is a *generating system* or *integrated resource system* at all times when *connected* must not produce at any of its *connection points*:

**[232] Clause S5.2.5.2 Quality of electricity generated**

Omit the opening paragraph of clause S5.2.5.2(c) and substitute:

- (c) The *minimum access standard* is a *generating system* or *integrated resource system* at all times when *connected* must not produce at any of its *connection points*:

**[233] Clause S5.2.5.3 Generating system response to frequency disturbances**

In the heading of clause S5.2.5.3, omit "Generating system response" and substitute "Response".

**[234] Clause S5.2.5.3 Response to frequency disturbances**

In clause S5.2.5.3(a), in the definition of "normal operating frequency band, operational frequency tolerance band, or extreme frequency excursion tolerance limits", omit "generating unit" and substitute "production unit".

**[235] Clause S5.2.5.3 Response to frequency disturbances**

In clause S5.2.5.3(a), in the definition of "stabilisation time and recovery time", omit "generating unit" and substitute "production unit".

**[236] Clause S5.2.5.3 Response to frequency disturbances**

In clause S5.2.5.3(b), after "The *automatic access standard* is a *generating system*", insert "or *integrated resource system*".

**[237] Clause S5.2.5.3 Response to frequency disturbances**

In clause S5.2.5.3(b), omit "generating units" and substitute "production units".

**[238] Clause S5.2.5.3 Response to frequency disturbances**

In clause S5.2.5.3(c), after "The *minimum access standard* is a *generating system*", insert "or *integrated resource system*".

**[239] Clause S5.2.5.3 Response to frequency disturbances**

In clause S5.2.5.3(c), omit "generating units" and substitute "production units".

**[240] Clause S5.2.5.3 Response to frequency disturbances**

In clause S5.2.5.3(c)(3), after "any time spent in the ranges under subparagraphs (1) and (2)", insert "unless (for an *integrated resource system*) it has a *protection system* to trip consumption by a *bidirectional unit* if the *frequency* falls below a level agreed with *AEMO*".

**[241] Clause S5.2.5.3 Response to frequency disturbances**

In clause S5.2.5.3(c)(5), omit "(the *generating system*)" and substitute "(for a *generating system*) it".

**[242] Clause S5.2.5.3 Response to frequency disturbances**

In clause S5.2.5.3(c)(5), after "exceeds a level agreed with *AEMO*", insert "or (for an *integrated resource system*) it has a *protection system* to trip generation from a *bidirectional unit* if the *frequency* exceeds a level agreed with *AEMO*".

**[243] Clause S5.2.5.3 Response to frequency disturbances**

In clause S5.2.5.3(c)(6), after "in respect of a *generating system*", insert "or *integrated resource system*".

**[244] Clause S5.2.5.3 Response to frequency disturbances**

Omit clause S5.2.5.3(c)(6)(i) and substitute:

- (i) (in each case) having *generating units* with a combined *nameplate rating* of 30 MW or more;
- (ia) (in the case of an *integrated resource system*) not satisfying subparagraph (6)(i), but having *bidirectional units* with a combined *nameplate rating* of 5 MW or more; and

**[245] Clause S5.2.5.3 Response to frequency disturbances**

Omit clause S5.2.5.3(c)(6)(ii) and substitute:

- (ii) (in each case) that does not have a *protection system* to trip the *production unit* if the *frequency* exceeds a level agreed with *AEMO* under subparagraph (5),

**[246] Clause S5.2.5.3 Response to frequency disturbances**

In clause S5.2.5.3(d), omit "*frequency tolerance band as a result of over-frequency tripping of generating units*" and substitute "*frequency tolerance band as a result of over-frequency tripping of production units or rise above the upper bound of the operational frequency tolerance band as a result of under-frequency tripping of bidirectional units*".

**[247] Clause S5.2.5.4 Generating system response to voltage disturbances**

In the heading of clause S5.2.5.4, omit "**Generating system response**" and substitute "**Response**".

**[248] Clause S5.2.5.4 Response to voltage disturbances**

In clause S5.2.5.4(a), after "The *automatic access standard* is a *generating system*", insert "or *integrated resource system*".

**[249] Clause S5.2.5.4 Response to voltage disturbances**

In clause S5.2.5.4(a), omit "*generating units*" and substitute "*production units*".

**[250] Clause S5.2.5.4 Response to voltage disturbances**

In clause S5.2.5.4(b), after "The *minimum access standard* is a *generating system*", insert "or *integrated resource system*".

**[251] Clause S5.2.5.4 Response to voltage disturbances**

In clause S5.2.5.4(b), omit "*generating units*" and substitute "*production units*".

**[252] Clause S5.2.5.4 Response to voltage disturbances**

Omit clause S5.2.5.4(c) and substitute:

- (c) In negotiating a *negotiated access standard*, a *generating system* or *integrated resource system* and each of its operating *production units* must be capable of *continuous uninterrupted operation* for the range of *voltages* specified in the *automatic access standard*, except where *AEMO* and the *Network Service Provider* agree that the total change in the level of *active power* in the *power system* as a result of any *voltage* excursion within levels specified by the *automatic access standard* would not exceed 100 MW, or a greater limit based on what *AEMO* and the *Network Service Provider* both consider to be reasonable in the circumstances.

**[253] Clause S5.2.5.4 Response to voltage disturbances**

In clause S5.2.5.4(f), after "ensure the *generating system*", insert "or *integrated resource system*".

**[254] Clause S5.2.5.4 Response to voltage disturbances**

In clause S5.2.5.4(f), omit "*generating units*" and substitute "*production units*".

**[255] Clause S5.2.5.4 Response to voltage disturbances**

In clause S5.2.5.4(f), omit "or *generating system* conditions" and substitute ", *generating system* or *integrated resource system* conditions".



**[256] Clause S5.2.5.5 Generating system response to disturbances following contingency events**

Omit the heading of clause S5.2.5.5 and substitute:

**S5.2.5.5 Response to disturbances following contingency events**

**[257] Clause S5.2.5.5 Response to disturbances following contingency events**

In clause S5.2.5.5(b)(1), after "for a *generating system*", insert "or *integrated resource system*".

**[258] Clause S5.2.5.5 Response to disturbances following contingency events**

In clause S5.2.5.5(b)(1), omit "*generating units*" and substitute "*production units*".

**[259] Clause S5.2.5.5 Response to disturbances following contingency events**

Omit clause S5.2.5.5(b)(2) and substitute:

- (2) for a *generating system* or (to the extent it comprises *production units*) an *integrated resource system* that in either case is comprised solely of *synchronous production units*, the requirements of paragraph (e);

**[260] Clause S5.2.5.5 Response to disturbances following contingency events**

Omit clause S5.2.5.5(b)(3) and substitute:

- (3) for a *generating system* or (to the extent it comprises *production units*) an *integrated resource system* that in either case is comprised solely of *asynchronous production units*, the requirements of paragraphs (f) to (i);

**[261] Clause S5.2.5.5 Response to disturbances following contingency events**

Omit clause S5.2.5.5(b)(4) and substitute:

- (4) for a *generating system* or (to the extent it comprises *production units*) an *integrated resource system* that in either case is comprised of *synchronous production units* and *asynchronous production units*;

- (i) for that part of the *generating system* or *integrated resource system* comprised of *synchronous production units*, the requirements of paragraph (e); and
- (ii) for that part of the *generating system* or *integrated resource system* comprised of *asynchronous production units*, the requirements of paragraphs (f) to (i).

**[262] Clause S5.2.5.5 Response to disturbances following contingency events**

In clause S5.2.5.5, before paragraph (c), omit the subheading and substitute:

**All generating systems and integrated resource systems**

**[263] Clause S5.2.5.5 Response to disturbances following contingency events**

In clause S5.2.5.5(c), omit "A *generating system* and each of its *generating units*" and substitute "A *generating system* or *integrated resource system* and each of its *production units*".

**[264] Clause S5.2.5.5 Response to disturbances following contingency events**

In clause S5.2.5.5(c), in the last paragraph, omit "*generating unit*" and substitute "*production unit*".

**[265] Clause S5.2.5.5 Response to disturbances following contingency events**

In clause S5.2.5.5(d), omit "A *generating system* and each of its *generating units*" and substitute "A *generating system* or *integrated resource system* and each of its *production units*".

**[266] Clause S5.2.5.5 Response to disturbances following contingency events**

In clause S5.2.5.5(d)(7), after "the islanding of the *generating system*", insert "or *integrated resource system*".

**[267] Clause S5.2.5.5 Response to disturbances following contingency events**

In clause S5.2.5.5, omit the subheading before paragraph (e) and substitute:

**Synchronous generating systems and synchronous integrated resource systems**

**[268] Clause S5.2.5.5 Response to disturbances following contingency events**

Omit the opening paragraph of clause S5.2.5.5(e) and substitute:

- (e) Subject to any changed *power system* conditions or energy source availability beyond the *Generator's* or *Integrated Resource Provider's* reasonable control, a *generating system* or (to the extent comprised of *production units*) *integrated resource system* that in either case is comprised of *synchronous production units*, in respect of the types of fault described in subparagraphs (c)(2) to (4), must supply to or absorb from the *network*:

**[269] Clause S5.2.5.5 Response to disturbances following contingency events**

In clause S5.2.5.5(e)(1), omit "the *generating system* including all operating *synchronous generating units*" and substitute "all operating *synchronous production units* of the *generating system* or *integrated resource system*".

**[270] Clause S5.2.5.5 Response to disturbances following contingency events**

In clause S5.2.5.5, before paragraph (f), omit the subheading and substitute:

**Asynchronous generating systems and synchronous integrated resource systems**

**[271] Clause S5.2.5.5 Response to disturbances following contingency events**

Omit the opening paragraph of clause S5.2.5.5(f) and substitute:

- (f) Subject to any changed *power system* conditions or energy source availability beyond the *Generator's* or *Integrated Resource Provider's* reasonable control, a *generating system* or (to the extent comprised of *production units*) *integrated resource system* that in either case is comprised of *asynchronous production units*, in respect of the types of fault described in subparagraphs (c)(2) to (4), must have *facilities* capable of supplying to or absorbing from the *network*:

**[272] Clause S5.2.5.5 Response to disturbances following contingency events**

In clause S5.2.5.5(f)(1)(i), omit "the *generating system* including all operating *asynchronous generating units*" and substitute "all operating *asynchronous production units* of the *generating system* or *integrated resource system*".

**[273] Clause S5.2.5.5 Response to disturbances following contingency events**

In clause S5.2.5.5(f)(1)(ii), omit "the *generating system* including all operating *asynchronous generating units*" and substitute "all operating *asynchronous production units* of the *generating system* or *integrated resource system*".

**[274] Clause S5.2.5.5 Response to disturbances following contingency events**

In clause S5.2.5.5(g)(1), after "the *generating system*", insert "or *integrated resource system*".

**[275] Clause S5.2.5.5 Response to disturbances following contingency events**

In clause S5.2.5.5(h), including its subparagraph, after each occasion of "*generating system*", insert "or *integrated resource system*".

**[276] Clause S5.2.5.5 Response to disturbances following contingency events**

In clause S5.2.5.5(i), after "energy source availability, a *generating system*", and insert "or *integrated resource system*".

**[277] Clause S5.2.5.5 Response to disturbances following contingency events**

In clause S5.2.5.5(i)(1), omit "the *generating system* including all operating *generating units*" and substitute "all operating *production units* of the *generating system* or *integrated resource system*".

**[278] Clause S5.2.5.5 Response to disturbances following contingency events**

In clause S5.2.5.5(i)(2), omit "the *generating system* including all operating *generating units*" and substitute "all operating *production units* of the *generating system* or *integrated resource system*".

**[279] Clause S5.2.5.5 Response to disturbances following contingency events**

Omit clause S5.2.5.5(j)(1) and substitute:

- (1) for a *generating system* or *integrated resource system* and each of its *production units*, the requirements of paragraphs (k) and (l);

**[280] Clause S5.2.5.5 Response to disturbances following contingency events**

Omit clause S5.2.5.5(j)(2) and substitute:

- (2) for a *generating system* or (to the extent comprised of *production units*) an *integrated resource system* that in either case is comprised solely of *synchronous production units*, the requirements of paragraph (m);

**[281] Clause S5.2.5.5 Response to disturbances following contingency events**

Omit clause S5.2.5.5(j)(3) and substitute:

- (3) for a *generating system* or (to the extent comprised of *production units*) an *integrated resource system* that in either case is comprised solely of *asynchronous production units*, the requirements of paragraphs (n) to (p);

**[282] Clause S5.2.5.5 Response to disturbances following contingency events**

Omit clause S5.2.5.5(j)(4) and substitute:

- (4) for *generating system* or (to the extent comprised of *production units*) an *integrated resource system* that in either case is comprised of *synchronous production units* and *asynchronous production units*:
  - (i) for that part of the *generating system* or *integrated resource system* comprised of *synchronous production units*, the requirements of paragraph (m); and
  - (ii) for that part of the *generating system* or *integrated resource system* comprised of *asynchronous production units*, the requirements of paragraphs (n) to (p).

**[283] Clause S5.2.5.5 Response to disturbances following contingency events**

In clause S5.2.5.5, before paragraph (k), omit the subheading and substitute:

**All generating systems and integrated resource systems**

**[284] Clause S5.2.5.5 Response to disturbances following contingency events**

In clause S5.2.5.5(k), omit "A *generating system* and each of its *generating units*", and substitute "A *generating system* or *integrated resource system* and each of its *production units*".

**[285] Clause S5.2.5.5 Response to disturbances following contingency events**

In clause S5.2.5.5(k)(2), omit "reduction of *generation* in" and substitute "impact on".

**[286] Clause S5.2.5.5 Response to disturbances following contingency events**

In the closing paragraph of clause S5.2.5.5(k), omit "*generating unit*" and substitute "*production unit*".

**[287] Clause S5.2.5.5 Response to disturbances following contingency events**

In clause S5.2.5.5(l), omit "A *generating system* and each of its *generating units*" and substitute "A *generating system* or *integrated resource system* and each of its *production units*".

**[288] Clause S5.2.5.5 Response to disturbances following contingency events**

In clause S5.2.5.5(1)(6), after "the islanding of the *generating system*", insert "or *integrated resource system*".

**[289] Clause S5.2.5.5 Response to disturbances following contingency events**

In clause S5.2.5.5, before paragraph (m), omit the subheading and substitute:

**Synchronous generating systems and synchronous integrated resource systems**

**[290] Clause S5.2.5.5 Response to disturbances following contingency events**

Omit the opening paragraph of clause S5.2.5.5(m) and substitute:

- (m) Subject to any changed *power system* conditions or energy source availability beyond the *Generator's* or *Integrated Resource Provider's* reasonable control after clearance of the fault, a *generating system* or *integrated resource system* comprised of *synchronous production units*, in respect of the types of fault described in subparagraph (k)(2) must:

**[291] Clause S5.2.5.5 Response to disturbances following contingency events**

In clause S5.2.5.5(m)(2), omit "output" and substitute "level".

**[292] Clause S5.2.5.5 Response to disturbances following contingency events**

In clause S5.2.5.5, before paragraph (n), omit the subheading and substitute:

**Asynchronous generating systems and asynchronous integrated resource systems**

**[293] Clause S5.2.5.5 Response to disturbances following contingency events**

Omit the opening paragraph of clause S5.2.5.5(n) and substitute:

- (n) Subject to any changed *power system* conditions or energy source availability beyond the *Generator's* or *Integrated Resource Provider's* reasonable control, a *generating system* or (to the extent comprised of *production units*) *integrated resource system* that in either case is comprised of *asynchronous production units* must:

**[294] Clause S5.2.5.5 Response to disturbances following contingency events**

In clause S5.2.5.5(n)(1)(i), omit "the *generating system* including all operating *asynchronous generating units*" and substitute "including all operating *asynchronous production units* of the *generating system* or *integrated resource system*".

**[295] Clause S5.2.5.5 Response to disturbances following contingency events**

In clause S5.2.5.5(n)(1)(ii), omit "the *generating system* including all operating *asynchronous generating units*" and substitute "including all operating *asynchronous production units* of the *generating system* or *integrated resource system*".

**[296] Clause S5.2.5.5 Response to disturbances following contingency events**

In clause S5.2.5.5(n)(2), omit "output" and substitute "level".

**[297] Clause S5.2.5.5 Response to disturbances following contingency events**

In clause S5.2.5.5(o)(1), after "the *generating system*", insert "or *integrated resource system*".

**[298] Clause S5.2.5.5 Response to disturbances following contingency events**

In clause S5.2.5.5(o)(2), after "require the *generating system*", insert "or *integrated resource system*".



**[299] Clause S5.2.5.5 Response to disturbances following contingency events**

In clause S5.2.5.5(o)(3), omit "generating system" and substitute "*generating system or integrated resource system*".

**[300] Clause S5.2.5.5 Response to disturbances following contingency events**

In clause 5.2.5.5(p), after "Despite paragraph (n), a *generating system*", insert "or *integrated resource system*".

**[301] Clause S5.2.5.5 Response to disturbances following contingency events**

In clause 5.2.5.5(p)(2), after "where the *generating system*", insert "or *integrated resource system*".

**[302] Clause S5.2.5.5 Response to disturbances following contingency events**

In clause 5.2.5.5(r), omit "*generating plant or loads*" and substitute "*plant*".

**[303] Clause S5.2.5.5 Response to disturbances following contingency events**

In clause 5.2.5.5, before paragraph (s), omit the second subheading and substitute:

**All generating systems and integrated resource systems**

**[304] Clause S5.2.5.5 Response to disturbances following contingency events**

Omit clause S5.2.5.5(s) and substitute:

- (s) The *performance standard* must include any operational arrangements to ensure the *generating system or integrated resource system* including all operating *generating units* and all operating *bidirectional units* will meet its agreed performance levels under abnormal *network, generating system or integrated resource system* conditions.

**[305] Clause S5.2.5.5 Response to disturbances following contingency events**

In clause S5.2.5.5, before paragraph (u), omit the subheading and substitute:

**Asynchronous generating systems and asynchronous integrated resource systems**

**[306] Clause S5.2.5.5 Generating system or integrated resource system response to disturbances following contingency events**

Omit clause S5.2.5.5(u)(1) and substitute:

- (1) the reactive current contribution may be limited to the maximum continuous current of all operating *asynchronous production units* of the *generating system* or *integrated resource system*;

**[307] Clause S5.2.5.5 Response to disturbances following contingency events**

In clause S5.2.5.5(u)(2), after "including within the relevant *generating system*", insert "or *integrated resource system*".

**[308] Clause S5.2.5.5 Response to disturbances following contingency events**

In clause S5.2.5.5, before paragraph (v), omit the subheading and substitute:

**Synchronous generating systems and synchronous integrated resource systems**

**[309] Clause S5.2.5.5 Response to disturbances following contingency events**

Omit clause S5.2.5.5(v) and substitute:

- (v) For a *generating system* or (to the extent comprised of *production units*) *integrated resource system* that in either case is comprised solely of *synchronous production units*, the reactive current contribution may be limited to 250% of the maximum continuous current of the *generating system* or *integrated resource system*.

**[310] Clause S5.2.5.5 Response to disturbances following contingency events**

Omit clause S5.2.5.5(w) and substitute:

- (w) For a *synchronous production unit* within a *generating system* or *integrated resource system* (other than a *generating system* or *integrated resource system* described in paragraph (v)), the reactive current contribution may be limited to 250% of the maximum continuous current of that *synchronous production unit*.

**[311] Clause S5.2.5.6 Quality of electricity generated and continuous uninterrupted operation**

In clause S5.2.5.6, after "The *minimum access standard* is a *generating system*", insert "and an *integrated resource system*".

**[312] Clause S5.2.5.6 Quality of electricity generated and continuous uninterrupted operation**

In clause S5.2.5.6, omit "*generating units*" and substitute "*production units*".

**[313] Clause S5.2.5.7 Partial load rejection**

In clause S5.2.5.7(c), after "The *automatic access standard* is a *generating system*", insert "or an *integrated resource system*".

**[314] Clause S5.2.5.7 Partial load rejection**

In clause S5.2.5.7(d), after "The *minimum access standard* is a *generating system*", insert "or an *integrated resource system*".

**[315] Clause S5.2.5.8 Protection from power system disturbances**

In the heading of clause S5.2.5.8, omit "**of generating systems**".

**[316] Clause S5.2.5.8 Protection from power system disturbances**

Omit the opening paragraph of clause S5.2.5.8(a)(1) and substitute:

- (1) subject to subparagraph (2) and paragraph (e), for a *generating system* or *integrated resource system* or any of its *production units* that is required by a *Generator*, *Integrated Resource Provider* or *Network Service Provider* to be automatically *disconnected* from the *power system* in response to abnormal conditions arising from the *power system*, the relevant *protection system* or *control system* must not *disconnect* the *generating system* or *integrated resource system* for:

**[317] Clause S5.2.5.8 Protection from power system disturbances**

Omit the opening paragraph of clause S5.2.5.8(a)(2) and substitute:

- (2) a relevant system (as defined in paragraph (a1)) *connected* to a *transmission system* must have *facilities* to automatically and rapidly reduce its *generation*:

**[318] Clause S5.2.5.8 Protection from power system disturbances**

In clause S5.2.5.8(a)(2)(i)(A) and (B), after each occasion of "the *generating system*" insert "or *integrated resource system*".

**[319] Clause S5.2.5.8 Protection from power system disturbances**

After clause S5.2.5.8(a), insert:

- (a1) For subparagraph (a)(2), a relevant system means any of the following:
- (1) a *generating system* with a *nameplate rating* of 30MW or more;
  - (2) a *generating system* comprised of *generating units* with a combined *nameplate rating* of 30 MW or more;
  - (3) an *integrated resource system* that (to the extent it comprises *bidirectional units*) is comprised of *bidirectional units* with a combined *nameplate rating* of 5 MW or more; and
  - (4) an *integrated resource system* that (to the extent it comprises *generating units*) is comprised of *generating units* with a combined *nameplate rating* of 30 MW or more.

**[320] Clause S5.2.5.8 Protection from power system disturbances**

In clause S5.2.5.8(c), after "include a requirement for the *generating system*", insert "or *integrated resource system*".

**[321] Clause S5.2.5.8 Protection from power system disturbances**

In clause S5.2.5.8(c), omit "an island that supplies a *Customer*" and substitute "an island that *supplies load*".

**[322] Clause S5.2.5.8 Protection from power system disturbances**

In clause S5.2.5.8(d), omit "or *generating system*" and substitute ", *generating system, bidirectional unit or integrated resource system*".

**[323] Clause S5.2.5.8 Protection from power system disturbances**

In clause S5.2.5.8(e), after "a *generating system*", insert "or *integrated resource system*".

**[324] Clause S5.2.5.8 Protection from power system disturbances**

In clause S5.2.5.8(e)(1), after "between the *Generator*", insert "or *Integrated Resource Provider*".

**[325] Clause S5.2.5.8 Protection from power system disturbances**

In clause S5.2.5.8(e)(2), after "where a", insert "source of".

**[326] Clause S5.2.5.8 Protection from power system disturbances**

In clause S5.2.5.8(e)(2), (3) and (4), after each occasion of "the *generating system*", insert "or *integrated resource system*".

**[327] Clause S5.2.5.8 Protection from power system disturbances**

In clause S5.2.5.8(e)(5), after "between the *Generator*" insert "or *Integrated Resource Provider*".

**[328] Clause S5.2.5.8 Protection from power system disturbances**

In clause S5.2.5.8(f), after "damage incurred by the *Generator*", insert "or *Integrated Resource Provider*".

**[329] Clause S5.2.5.8 Protection from power system disturbances**

In clause S5.2.5.8(f), after "or within the *Generator's*", insert "or *Integrated Resource Provider's*".

**[330] Clause S5.2.5.9 Protection systems that impact on power system security**

In clause S5.2.5.9(a)(1), after "any faulted element in a *generating system*", insert "or *integrated resource system*".

**[331] Clause S5.2.5.9 Protection systems that impact on power system security**

In clause S5.2.5.9(b), after "the *Generator*", insert "or *Integrated Resource Provider*".

**[332] Clause S5.2.5.9 Protection systems that impact on power system security**

In clause S5.2.5.9(c)(1), after "any faulted element within a *generating system*", insert "or *integrated resource system*".

**[333] Clause S5.2.5.9 Protection systems that impact on power system security**

In clause S5.2.5.9(e), after "and the *Generator*", insert "or *Integrated Resource Provider*".

**[334] Clause S5.2.5.10 Protection to trip plant for unstable operation**

In clause S5.2.5.10(a), after "The *automatic access standard* is a *generating system*", insert "and an *integrated resource system*".

**[335] Clause S5.2.5.10 Protection to trip plant for unstable operation**

In clause S5.2.5.10(a)(1), omit "*synchronous generating units*" and substitute "*synchronous production units*".

**[336] Clause S5.2.5.10 Protection to trip plant for unstable operation**

In clause S5.2.5.10(a)(1), omit "*generating unit*" and substitute "*production unit*".

**[337] Clause S5.2.5.10 Protection to trip plant for unstable operation**

In clause S5.2.5.10(a)(2), omit "*asynchronous generating units*" and substitute "*asynchronous production units*".

**[338] Clause S5.2.5.10 Protection to trip plant for unstable operation**

In clause S5.2.5.10(b), after "The *minimum access standard* is a *generating system*", insert "or an *integrated resource system*".

**[339] Clause S5.2.5.10 Protection to trip plant for unstable operation**

In clause S5.2.5.10(c), after "any other part of the *generating system*", insert "or *integrated resource system*".

**[340] Clause S5.2.5.10 Protection to trip plant for unstable operation**

In clause S5.2.5.10(d), omit "*generating unit*" and substitute "*production unit*".

**[341] Clause S5.2.5.10 Protection to trip plant for unstable operation**

In clause S5.2.5.10(d)(1), omit "*other generating units*" and substitute "*other production units*".

**[342] Clause S5.2.5.11 Frequency control**

In clause S5.2.5.11(a), in the definition of "**droop**", after "the percentage change in *power transfer* of the *generating system*", insert "or *integrated resource system*, to the extent it comprises *production units*,"

**[343] Clause S5.2.5.11 Frequency control**

In clause S5.2.5.11(a), in the definition of "**droop**", after "operating level of the *generating system*", insert "or *integrated resource system*".

**[344] Clause S5.2.5.11 Frequency control**

In clause S5.2.5.11(a), in the definition of "**maximum operating level**", in paragraph (1), after "*a non-scheduled generating unit*", insert "or *non-scheduled bidirectional unit*".

**[345] Clause S5.2.5.11 Frequency control**

In clause S5.2.5.11(a), in the definition of "**maximum operating level**", in paragraph (2), after "*a scheduled generating unit*", insert ", *scheduled bidirectional unit*".

**[346] Clause S5.2.5.11 Frequency control**

In clause S5.2.5.11(a), in the definition of "**maximum operating level**", in paragraph (2), omit "*bid and offer validation data*" and substitute "*bid validation data*".

**[347] Clause S5.2.5.11 Frequency control**

In clause S5.2.5.11(a), in the definition of "**maximum operating level**", omit paragraph (3) and substitute:

- (3) *a non-scheduled generating system* or *non-scheduled integrated resource system*, the combined maximum *sent out generation* consistent with the *nameplate ratings* of its in-service *production units* (if any);



**[348] Clause S5.2.5.11 Frequency control**

In clause S5.2.5.11(a), in the definition of "**maximum operating level**", in paragraph (4), omit "*bid and offer validation data.*" and substitute "*bid validation data;* and".

**[349] Clause S5.2.5.11 Frequency control**

In clause S5.2.5.11(a), in the definition of "**maximum operating level**", after paragraph (4), insert:

- (5) a *scheduled integrated resource system*, the combined maximum *sent out generation* to which its in-service *production units* and in-service *generating units* may be *dispatched* and as provided to *AEMO* in the most recent *bid validation data*.

**[350] Clause S5.2.5.11 Frequency control**

In clause S5.2.5.11(a), in the definition of "**minimum operating level**", after paragraph (2), insert:

- (2A) a *scheduled bidirectional unit* or *non-scheduled bidirectional unit*, its minimum *active power* level for continuous stable operation;

**[351] Clause S5.2.5.11 Frequency control**

In clause S5.2.5.11(a), in the definition of "**minimum operating level**", in paragraph (3), omit "and".

**[352] Clause S5.2.5.11 Frequency control**

In clause S5.2.5.11(a)(4), omit "." and substitute "; and".

**[353] Clause S5.2.5.11 Frequency control**

In clause S5.2.5.11(a), in the definition of "**minimum operating level**", after paragraph (4), insert:

- (5) a *scheduled integrated resource system* or a *non-scheduled integrated resource system* the combined minimum operating level of its in-service *production units*.

**[354] Clause S5.2.5.11 Frequency control**

Omit the opening paragraph of clause S5.2.5.11(b)(1) and substitute:

- (1) *power transfer* to the *power system* from a *generating system* or, to the extent it comprises *production units*, an *integrated resource system* must not:

**[355] Clause S5.2.5.11 Frequency control**

In clause S5.2.5.11(b)(1)(ii), omit "and".

**[356] Clause S5.2.5.11 Frequency control**

In clause S5.2.5.11(b), in the last paragraph, after "sufficient period for the *Generator*", insert "or *Integrated Resource Provider* (as relevant)".

**[357] Clause S5.2.5.11 Frequency control**

In clause S5.2.5.11(b), in the last paragraph, omit "." and substitute "; and".

**[358] Clause S5.2.5.11 Frequency control**

After clause S5.2.5.11(b)(2), before the "Note", insert:

- (3) an *integrated resource system*, to the extent it comprises *production units*, must be capable of operating in *frequency response mode* such that it automatically provides a proportional:
  - (i) decrease in *power transfer* to the *power system*, with a continuous shift from one to the other mode, in response to a rise in the *frequency* of the *power system* as measured at the *connection point* accompanied by a smooth change in *bidirectional unit* operating mode between production and consumption; and
  - (ii) increase in *power transfer* to the *power system* in response to a fall in the *frequency* of the *power system* as measured at the *connection point* accompanied by a smooth change in *bidirectional unit* operating mode between production and consumption,

sufficiently rapidly and sustained for a sufficient period for the *Integrated Resource Provider* (as relevant) to be in a position to offer measurable amounts of all *market ancillary services* for the provision of *power system frequency control*.

**[359] Clause S5.2.5.11 Frequency control**

After clause S5.2.5.11(b)(3), in the "Note", after "obligations on *Generators*", insert "and *Integrated Resource Providers*".

**[360] Clause S5.2.5.11 Frequency control**

In clause S5.2.5.11(c)(1), after "for a *generating system*", insert "or, to the extent it comprises *production units*, an *integrated resource system*".

**[361] Clause S5.2.5.11 Frequency control**

In clause S5.2.5.11(c)(1)(ii), omit "and".

**[362] Clause S5.2.5.11 Frequency control**

In clause S5.2.5.11(c)(2), omit "." and substitute "; and".

**[363] Clause S5.2.5.11 Frequency control**

After clause S5.2.5.11(c)(2), before the "Note", insert:

- (3) an *integrated resource system*, to the extent it comprises *production units*, must be capable of operating in *frequency response mode* such that, subject to energy source availability, it automatically provides:
  - (i) a decrease in *power transfer* to the *power system*, in response to a rise in the *frequency* of the *power system* as measured at the *connection point*; and
  - (ii) increase in *power transfer* to the *power system* in response to a fall in the *frequency* of the *power system* as measured at the *connection point*,

where the change in *active power* is either proportional or otherwise as agreed with *AEMO* and the *Network Service Provider*.

**[364] Clause S5.2.5.11 Frequency control**

In clause S5.2.5.11(c)(3), in the "Note", after "on *Generators*", insert "and *Integrated Resource Providers*".

**[365] Clause S5.2.5.11 Frequency control**

In clause S5.2.5.11(i), omit "subparagraph (b)(2)" and substitute "subparagraphs (b)(2) and (b)(3)".

**[366] Clause S5.2.5.11 Frequency control**

In clause S5.2.5.11(i)(2), after "a *generating system*", insert "or *integrated resource system*".

**[367] Clause S5.2.5.11 Frequency control**

In clause S5.2.5.11(i)(3), after "nothing in subparagraph (b)(2)", insert "or (b)(3)".

**[368] Clause S5.2.5.11 Frequency control**

In clause S5.2.5.11(i)(3), after "taken to require a *generating system*", insert "or, to the extent it comprises *production units*, an *integrated resource system*".

**[369] Clause S5.2.5.11 Frequency control**

Omit clause S5.2.5.11(i)(5)(i) and substitute:

- (i) agreed values for maximum operating level and minimum operating level, and where relevant the method of determining the values, and the values for:
  - (A) a *generating system* must take into account its in-service *generating units*; and
  - (B) an *integrated resource system* must take into account its in-service *production units*; and

**[370] Clause S5.2.5.11 Frequency control**

In clause S5.2.5.11(i)(5)(ii), omit "purpose of subparagraph (b)(2)" and substitute, "purpose of subparagraphs (b)(2) and (b)(3)".

**[371] Clause S5.2.5.12 Impact on network capability**

In clause S5.2.5.12(a), after each occasion of "*generating system*", insert "or *integrated resource system*".

**[372] Clause S5.2.5.12 Impact on network capability**

In clause S5.2.5.12(b), after "The *minimum access standard* is a *generating system*", insert "or *integrated resource system*"

**[373] Clause S5.2.5.12 Impact on network capability**

In clause S5.2.5.12(b)(1), omit "*supply Customer load*" and substitute "*supply to load*".

**[374] Clause S5.2.5.12 Impact on network capability**

Omit clause S5.2.5.12(b)(2) and substitute:

- (2) *power transfer capabilities* into a *region* by more than the combined *sent out generation* of its *production units*.

**[375] Clause S5.2.5.12 Impact on network capability**

Omit clause S5.2.5.12(d)(2) and substitute:

- (2) operational arrangements, including curtailment of the *generating system's* or *integrated resource system's* output or consumption if necessary to ensure that the *plant* is operated in a way that meets at least the *minimum access standard* under abnormal *network, generating system* and *integrated resource system* conditions, so that *power system security* can be maintained.

**[376] Clause S5.2.5.12 Impact on network capability**

In clause S5.2.5.12(e), after "that will be maintained by the *Generator*", insert "or *Integrated Resource Provider*".

**[377] Clause S5.2.5.12 Impact on network capability**

In clause S5.2.5.12(e), after "but not changes to the *generating system*", insert "or *integrated resource system*".

**[378] Clause S5.2.5.12 Impact on network capability**

In clause S5.2.5.12(g), after "additional *control system facilities* to a *generating system*", insert "or *integrated resource system*".

**[379] Clause S5.2.5.12 Impact on network capability**

In clause S5.2.5.12(g), after "the *Network Service Provider* and the *Generator*", insert "or *Integrated Resource Provider* (as the case may be)".

**[380] Clause S5.2.5.13 Voltage and reactive power control**

Omit clause S5.2.5.13(a) and substitute:

- (a) [Deleted]

**[381] Clause S5.2.5.13 Voltage and reactive power control**

In clause S5.2.5.13(b)(1), after "a *generating system*", insert "or *integrated resource system*".

**[382] Clause S5.2.5.13 Voltage and reactive power control**

Omit clause S5.2.5.13(b)(1)(i) and substitute:

- (i) *power system* oscillations, for the frequencies of oscillation of the *production unit* against any other *production unit*, are *adequately damped*;

**[383] Clause S5.2.5.13 Voltage and reactive power control**

In clause S5.2.5.13(b)(1)(ii) and (iii), after "operation of the *generating system*", insert "or *integrated resource system*".

**[384] Clause S5.2.5.13 Voltage and reactive power control**

In clause S5.2.5.13(b)(2A), after "a *generating system*", insert "or *integrated resource system*".

**[385] Clause S5.2.5.13 Voltage and reactive power control**

In clause S5.2.5.13(b)(2B), after "a *generating system*", insert "or *integrated resource system*".

**[386] Clause S5.2.5.13 Voltage and reactive power control**

In clause S5.2.5.13(b)(2B)(i), after "including within the *generating system*", insert "or *integrated resource system*".

**[387] Clause S5.2.5.13 Voltage and reactive power control**

In clause S5.2.5.13(b)(2B)(iv), omit "*generating unit*" and substitute "*production unit*".

**[388] Clause S5.2.5.13 Voltage and reactive power control**

Omit the opening paragraph of clause S5.2.5.13(b)(3) and substitute:

- (3) a *generating system* or (to the extent it comprises *production units*) *integrated resource system* that is comprised of *synchronous production units* must have an *excitation control system* that:

**[389] Clause S5.2.5.13 Voltage and reactive power control**

In clause S5.2.5.13(b)(3)(vi), omit "*generation*" and substitute "transfer of power".

**[390] Clause S5.2.5.13 Voltage and reactive power control**

In clause S5.2.5.13(b)(3)(vii)(a), omit "*generating unit*" and substitute "*production unit*".

**[391] Clause S5.2.5.13 Voltage and reactive power control**

In clause S5.2.5.13(b)(3)(vii)(C), omit "*generating unit*" and substitute "*production unit*".

**[392] Clause S5.2.5.13 Voltage and reactive power control**

Omit the opening paragraph of clause S5.2.5.13(b)(4) and substitute:

- (4) a *generating system* or *integrated resource system*, other than one comprised of *synchronous production units*, must have a *voltage control system* that:

**[393] Clause S5.2.5.13 Voltage and reactive power control**

In clause S5.2.5.13(b)(4)(v), after "with the *generating system*", insert "or *integrated resource system*".

**[394] Clause S5.2.5.13 Voltage and reactive power control**

In clause S5.2.5.13(b)(4)(v)(A) and (B), after "with the *generating system*", insert "or *integrated resource system*".

**[395] Clause S5.2.5.13 Voltage and reactive power control**

Omit clause S5.2.5.13(b)(4)(vii)(B) and substitute:

- (B) where *AEMO* has published characteristics for a *generating system* or *integrated resource system* other than a system comprised of *synchronous production units*, following consultation in accordance with the *Rules consultation procedures*, with characteristics as published by *AEMO*.

**[396] Clause S5.2.5.13 Voltage and reactive power control**

Omit clause S5.2.5.13(c)(1) and substitute:

- (1) for a *synchronous production unit*, measurements of rotor speed and *active power* level of the *production unit* as inputs, and otherwise, measurements of *power system frequency* and *active power* level of the *production unit* as inputs;

**[397] Clause S5.2.5.13 Voltage and reactive power control**

In clause S5.2.5.13(c)(4), omit "*synchronous generating unit*" and substitute "*synchronous production unit*".

**[398] Clause S5.2.5.13 Voltage and reactive power control**

In clause S5.2.5.13(c1)(1), after "including within the *generating system*", insert "or *integrated resource system*".

**[399] Clause S5.2.5.13 Voltage and reactive power control**

In clause S5.2.5.13(c1)(1)(i), after each occasion of "*generating system*", insert "or *integrated resource system*".

**[400] Clause S5.2.5.13 Voltage and reactive power control**

In clause S5.2.5.13(c1)(1)(ii), after each occasion of "*generating system*", insert "or *integrated resource system*".

**[401] Clause S5.2.5.13 Voltage and reactive power control**

In clause S5.2.5.13(c1)(3), after "with the *generating system*", insert "or *integrated resource system*".



**[402] Clause S5.2.5.13 Voltage and reactive power control**

In clause S5.2.5.13(d)(1), after "*a generating system*", insert "*or integrated resource system*".

**[403] Clause S5.2.5.13 Voltage and reactive power control**

Omit clause S5.2.5.13(d)(1)(i) and substitute:

- (i) *power system* oscillations, for the frequencies of oscillation of the *production unit* against any other *production unit*, are *adequately damped*;

**[404] Clause S5.2.5.13 Voltage and reactive power control**

In clause S5.2.5.13(d)(1)(ii), omit "*generating unit*" and substitute "*production unit*".

**[405] Clause S5.2.5.13 Voltage and reactive power control**

In clause S5.2.5.13(d)(1)(iii), omit "*generating unit*" and substitute "*production unit*".

**[406] Clause S5.2.5.13 Voltage and reactive power control**

After clause S5.2.5.13(d)(1), insert:

(1A) an *integrated resource system* (to the extent it comprises *production units*) that is comprised of:

- (i) *bidirectional units* with a combined *nameplate rating* of 5 MW or more; or
- (ii) *generating units* with a combined *nameplate rating* of 30 MW or more,

must have *facilities* for testing its *control systems* sufficient to establish their dynamic operational characteristics;

**[407] Clause S5.2.5.13 Voltage and reactive power control**

In clause S5.2.5.13(d)(2A), after "*a generating system*", insert "*or integrated resource system*".

**[408] Clause S5.2.5.13 Voltage and reactive power control**

In clause S5.2.5.13(d)(2B), after "*a voltage control system for a generating system*", insert "*or integrated resource system*".

**[409] Clause S5.2.5.13 Voltage and reactive power control**

In clause S5.2.5.13(d)(2B)(i), after "*including within the generating system*", insert "*or integrated resource system*".

**[410] Clause S5.2.5.13 Voltage and reactive power control**

In clause S5.2.5.13(d)(3), after "a *generating system's*", insert "or *integrated resource system's*".

**[411] Clause S5.2.5.13 Voltage and reactive power control**

In clause S5.2.5.13(d)(3)(i), after "including within the *generating system*", insert "or *integrated resource system*".

**[412] Clause S5.2.5.13 Voltage and reactive power control**

In clause S5.2.5.13(d)(3)(i)(A) and (B), after each occasion of "*generating system*", insert "or *integrated resource system*".

**[413] Clause S5.2.5.13 Voltage and reactive power control**

Omit the opening paragraph of clause S5.2.5.13(d)(4) and substitute:

- (4) a *generating system* with *synchronous generating units* with a *nameplate rating* of 30 MW or more, or an *integrated resource system* (to the extent it comprises *production units*) comprising *synchronous bidirectional units* with a *nameplate rating* of 5 MW or more or *synchronous generating units* with a *nameplate rating* of 30 MW or more, in any case with an *excitation control system* required to regulate *voltage* under subparagraph (d)(2A)(i) must:

**[414] Clause S5.2.5.13 Voltage and reactive power control**

In clause S5.2.5.13(d)(4)(ii), omit "*generation*" and substitute "transfer of power".

**[415] Clause S5.2.5.13 Voltage and reactive power control**

In clause S5.2.5.13(d)(4)(iii), omit "*generating unit*" and substitute "*production unit*".

**[416] Clause S5.2.5.13 Voltage and reactive power control**

In clause S5.2.5.13(d)(4)(iv), omit "*generating unit*" and substitute "*production unit*".

**[417] Clause S5.2.5.13 Voltage and reactive power control**

At the end of clause S5.2.5.13(d)(4)(iv), omit "and".

**[418] Clause S5.2.5.13 Voltage and reactive power control**

At the end of clause S5.2.5.13(d)(5)(iii), omit "." and substitute "; and".

**[419] Clause S5.2.5.13 Voltage and reactive power control**

After clause S5.2.5.13(d)(5), insert:

- (6) an *integrated resource system* (to the extent it comprises *production units*) comprised of *asynchronous bidirectional units* with a *nameplate rating* of 5 MW or more, or *synchronous generating units* with a *nameplate rating* of 30 MW or more, in either case with a *voltage control system* required to regulate *voltage* under subparagraph (d)(2A)(i) must:
  - (i) subject to co-ordination under paragraph (i), have a *settling time* less than 7.5 seconds for a 5% *voltage* disturbance with the *production unit* electrically connected to the *power system* from an operating point where such a *voltage* disturbance would not cause any limiting device to operate; and
  - (ii) have limiting devices to ensure that a *voltage* disturbance would not cause the *production unit* to trip at the limits of its operating capability.

**[420] Clause S5.2.5.13 Voltage and reactive power control**

In clause S5.2.5.13(f), after "by the *Generator*", insert "or *Integrated Resource Provider*".

**[421] Clause S5.2.5.13 Voltage and reactive power control**

In clause S5.2.5.13(f), after "highest level that the *generating system*", insert "or *integrated resource system*".

**[422] Clause S5.2.5.13 Voltage and reactive power control**

In clause S5.2.5.13(g1), after each occasion of "*generating system*", insert "or *integrated resource system*".

**[423] Clause S5.2.5.13 Voltage and reactive power control**

In clause S5.2.5.13(g1), after "more than one control mode, the *Generator*", insert "or *Integrated Resource Provider* (as relevant)".

**[424] Clause S5.2.5.13 Voltage and reactive power control**

In clause S5.2.5.13(i), omit "*generating unit* or *generating system*" and substitute "*production unit*".

**[425] Clause S5.2.5.13 Voltage and reactive power control**

In clause S5.2.5.13(k), omit "*generating units*" and substitute "*production units*".

**[426] Clause S5.2.5.14 Active power control**

In clause S5.2.5.14(a), after "The *automatic access standard* is a *generating system*", insert "or *integrated resource system*".

**[427] Clause S5.2.5.14 Active power control**

In clause S5.2.5.14(a)(1), omit "or a *scheduled generating system*" and substitute ", a *scheduled generating system, scheduled bidirectional unit or scheduled integrated resource system*".

**[428] Clause S5.2.5.14 Active power control**

In clause S5.2.5.14(a)(1)(i) and (ii), omit "output" and substitute "level".

**[429] Clause S5.2.5.14 Active power control**

In clause S5.2.5.14(a)(2), omit "or *non-scheduled generating system*" and substitute ", *non-scheduled generating system, non-scheduled bidirectional unit or non-scheduled integrated resource system*".

**[430] Clause S5.2.5.14 Active power control**

In clause S5.2.5.14(a)(2)(i), (ii) and (iii), omit "output" and substitute "level".

**[431] Clause S5.2.5.14 Active power control**

In clause S5.2.5.14(a)(3)(i), (ii), (iii) and (iv), omit "output" and substitute "level".

**[432] Clause S5.2.5.14 Active power control**

In clause S5.2.5.14(b), after "The *minimum access standard* is a *generating system*", insert "or *integrated resource system*".

**[433] Clause S5.2.5.14 Active power control**

In clause S5.2.5.14(b)(1), omit "or a *scheduled generating system*" and substitute ", a *scheduled generating system, scheduled bidirectional unit or scheduled integrated resource system*".

**[434] Clause S5.2.5.14 Active power control**

In clause S5.2.5.14(b)(1)(i), omit "output" and substitute "level".

**[435] Clause S5.2.5.14 Active power control**

In clause S5.2.5.14(b)(2), after "for a *non-scheduled generating system*", insert "or *non-scheduled integrated resource system*".

**[436] Clause S5.2.5.14 Active power control**

In clauses S5.2.5.14(b)(2)(i), (ii) and (iii), omit "output" and substitute "level".

**[437] Clause S5.2.5.14 Active power control**

In clauses S5.2.5.14(b)(3)(i) and (ii), omit "output" and substitute "level".

**[438] Clause S5.2.5.14 Active power control**

In clause S5.2.5.14(c), after "*AEMO* may require the *Generator*", insert "or *Integrated Resource Provider*".

**[439] Clause S5.2.5.14 Active power control**

In clause S5.2.5.14(d), after "a requirement for the *generating system*", insert "or *integrated resource system*".

**[440] Clause S5.2.5.14 Active power control**

In clause S5.2.5.14(d), omit "output" and substitute "*active power level*".

**[441] Clause S5.2.5.15 Short circuit ratio**

Omit clause S5.2.5.15(a) and substitute:

- (a) This clause S5.2.5.15:
  - (1) applies to a *generating system* and (to the extent it comprises *production units*) an *integrated resource system* that in either case is comprised solely of *asynchronous production units*;
  - (2) does not apply to a *generating system* or (to the extent it comprises *production units*) an *integrated resource system* that in either case is comprised solely of *synchronous production units*; and
  - (3) for a *generating system* or (to the extent it comprises *production units*) an *integrated resource system* that is comprised of both *synchronous production units* and *asynchronous production units*, applies only to the *asynchronous production units* and to the *generating system* or *integrated resource system* to the extent it relates to its *asynchronous production units*.

**[442] Clause S5.2.5.15 Short circuit ratio**

In clause S5.2.5.15(b), omit "comprised of *asynchronous generating units*" and substitute "or (to the extent it comprises *production units*) an *integrated resource system* that is comprised of *asynchronous production units*".

**[443] Clause S5.2.5.15 Short circuit ratio**

In clause S5.2.5.15(c)(1), after "the *generating system*", insert "or *integrated resource system*".

**[444] Clause S5.2.5.15 Short circuit ratio**

In clause S5.2.5.15(e), after "If the *generating system*", insert "or *integrated resource system*".

**[445] Clause S5.2.5.15 Short circuit ratio**

In clause S5.2.5.15(e), after ", the *Generator*", insert "or *Integrated Resource Provider*".

**[446] Clause S5.2.5.15 Short circuit ratio**

In clause S5.2.5.15(f) and (f)(1), after each occasion of "the *Generator*", insert "or *Integrated Resource Provider*".

**[447] Clause S5.2.5.15 Short circuit ratio**

In clause S5.2.5.15(f)(2), after "the *generating system*", insert "or *integrated resource system*".

**[448] Clause S5.2.5.16 Voltage phase angle shift**

Omit clause S5.2.5.16(a) and substitute:

- (a) This clause S5.2.5.16:
  - (1) applies to a *generating system* and (to the extent it comprises *production units*) an *integrated resource system* that in either case is comprised solely of *asynchronous production units*;
  - (2) does not apply to a *generating system* or (to the extent it comprises *production units*) an *integrated resource system* that in either case is comprised solely of *synchronous production units*; and
  - (3) for a *generating system* or (to the extent it comprises *production units*) an *integrated resource system* that is comprised of both *synchronous production units* and *asynchronous production units*, applies only to the *asynchronous production units* and to the *generating system* or *integrated resource system* to the extent it relates to its *asynchronous production units*.

**[449] Clause S5.2.5.16 Voltage phase angle shift**

In clause S5.2.5.16(b), omit "and each of its *asynchronous generating units*" and substitute "or *integrated resource system* and each of its *asynchronous production units*".

**[450] Clause S5.2.6.1 Remote Monitoring**

In clause S5.2.6.1(a)(5), omit "or".

**[451] Clause S5.2.6.1 Remote Monitoring**

In clause S5.2.6.1(a)(6), omit ", " and substitute ";".

**[452] Clause S5.2.6.1 Remote Monitoring**

After clause S5.2.6.1(a)(6), insert:

- (7) *scheduled bidirectional unit*;
- (8) *scheduled integrated resource system*;
- (9) *non-scheduled bidirectional unit*; or
- (10) *non-scheduled integrated resource system*,

**[453] Clause S5.2.6.1 Remote Monitoring**

Omit clause S5.2.6.1(b)(1) and substitute:

- (1) in respect of a *generating system* or *integrated resource system* of a type referred to in subparagraphs (a)(1) to (10):
  - (i) the status of all switching devices that carry the *generation* or *load*;
  - (ii) *tap-changing transformer* tap position(s) and *voltages*;
  - (iii) *active power* and *reactive power* aggregated for groups of identical *production units*;
  - (iv) either the number of identical *production units* operating or the operating status of each non-identical *production unit*;
  - (v) *active power* and *reactive power* for the *generating system* or *integrated resource system*; and
  - (vi) *voltage control system* setpoint and mode (as applicable);

**[454] Clause S5.2.6.1 Remote Monitoring**

Omit clause S5.2.6.1(b)(2) and substitute:

- (2) in respect of:
  - (i) a *generating unit* with a *nameplate rating* of 30 MW or more; or
  - (ii) a *bidirectional unit* with a *nameplate rating* of 5MW or more,



current, *voltage*, *active power* and *reactive power* in respect of *generating unit* or *bidirectional unit* stators or power conversion systems (as applicable);

**[455] Clause S5.2.6.1 Remote Monitoring**

In clause S5.2.6.1(b)(3), omit "or *generating system*" and substitute ", *generating system*, *bidirectional unit* or *integrated resource system*,".

**[456] Clause S5.2.6.1 Remote Monitoring**

Omit clause S5.2.6.1(b)(4) and substitute:

- (4) in respect of *reactive power* equipment that is part of a *generating system* or *integrated resource system* but not part of a particular *production unit*, its *reactive power*;

**[457] Clause S5.2.6.1 Remote Monitoring**

In clause S5.2.6.1(b)(5), after "in respect of a *semi-scheduled generating system*", insert ", or a *semi-scheduled generating unit* in an *integrated resource system*".

**[458] Clause S5.2.6.1 Remote Monitoring**

In clause S5.2.6.1(b)(6), omit "or *semi-scheduled generating system*" and substitute ", *semi-scheduled generating system*, *scheduled integrated resource system* or *scheduled bidirectional unit*".

**[459] Clause S5.2.6.1 Remote Monitoring**

In clause S5.2.6.1(b)(8), after "operation of the *generating unit*", insert ", *bidirectional unit*".

**[460] Clause S5.2.6.1 Remote Monitoring**

In clause S5.2.6.1(b)(8), after "the *active power* response of the *generating system*", insert "or *integrated resource system*".

**[461] Clause S5.2.6.1 Remote Monitoring**

In clause S5.2.6.1(b1)(1), after "in respect of a *generating system*", insert "or *integrated resource system*".

**[462] Clause S5.2.6.1 Remote Monitoring**

In clause S5.2.6.1(b1)(2), omit "or *semi-scheduled generating system*" and substitute ", *semi-scheduled generating system* or *scheduled integrated resource system*".

**[463] Clause S5.2.6.1 Remote Monitoring**

In clause S5.2.6.1(b1)(3), after "a *non-scheduled generating system*", insert "or *non-scheduled integrated resource system*".

**[464] Clause S5.2.6.1 Remote Monitoring**

In clause S5.2.6.1(c)(4), omit "or".

**[465] Clause S5.2.6.1 Remote Monitoring**

In clause S5.2.6.1(c)(5), omit "," and substitute ";".

**[466] Clause S5.2.6.1 Remote Monitoring**

After clause S5.2.6.1(c)(5), insert:

- (6) *scheduled bidirectional unit*;
- (7) *scheduled integrated resource system*;
- (8) *non-scheduled bidirectional unit*; or
- (9) *non-scheduled integrated resource system*,

**[467] Clause S5.2.6.1 Remote Monitoring**

In clause S5.2.6.1(d)(1) and (2), omit "output" and substitute "level".

**[468] Clause S5.2.6.1 Remote Monitoring**

Omit clause S5.2.6.1(d)(3) and substitute:

- (3) if a *semi-scheduled generating system* or a *semi-scheduled generating unit* in an *integrated resource system*, all data specified as mandatory in the relevant *energy conversion model* applicable to that type of *semi-scheduled generating system* or *semi-scheduled generating unit*;

**[469] Clause S5.2.6.1 Remote Monitoring**

After clause S5.2.6.1(d)(3), insert:

- (4) the *active power* level of the *bidirectional unit* or *integrated resource system* (as applicable); and
- (5) if *connected to a transmission system*, the *reactive power* level of the *bidirectional unit* or *integrated resource system* (as applicable).

**[470] Clause S5.2.6.2 Communications equipment**

In clause S5.2.6.2(a), after "is a *Generator*", insert "or *Integrated Resource Provider*".

**[471] Clause S5.2.6.2 Communications equipment**

In clause S5.2.6.2(a)(1), after "between the *Generator's* ", insert "or *Integrated Resource Provider's*".

**[472] Clause S5.2.6.2 Communications equipment**

In clause S5.2.6.2(a)(2), after "in relation to its *generating system*", insert "or *integrated resource system*".

**[473] Clause S5.2.6.2 Communications equipment**

In clause S5.2.6.2(a)(2), omit "*generating unit*" and substitute "*production unit*".

**[474] Clause S5.2.6.2 Communications equipment**

In clause S5.2.6.2(b), after "is a *Generator*", insert "or *Integrated Resource Provider*".

**[475] Clause S5.2.6.2 Communications equipment**

In clause S5.2.6.2(b)(1), after "between the *Generator's* ", insert "or *Integrated Resource Provider's*".

**[476] Clause S5.2.6.2 Communications equipment**

In clause S5.2.6.2(b)(2), after "in relation to its *generating system*", insert "or *integrated resource system*".

**[477] Clause S5.2.6.2 Communications equipment**

In clause S5.2.6.2(b)(2), omit "*generating unit*" and substitute "*production unit*".

**[478] Clause S5.2.6.2 Communications equipment**

In clause S5.2.6.2(d), after "that a *Generator*", insert "or *Integrated Resource Provider*".

**[479] Clause S5.2.6.2 Communications equipment**

In clause S5.2.6.2(d), after "for each of its *generating systems*", insert "or *integrated resource systems*".

**[480] Clause S5.2.6.2 Communications equipment**

In clause S5.2.6.2(e), after "otherwise agreed by the *Generator*", insert "or *Integrated Resource Provider* (as the case may be)".

**[481] Clause S5.2.6.2 Communications equipment**

In clause S5.2.6.2(f), after "that the *Generator*", insert "or *Integrated Resource Provider*".

**[482] Clause S5.2.7 Power station auxiliary supplies**

In clause S5.2.7, omit "takes its auxiliary supplies" and substitute "or *integrated resource system* takes its *auxiliary load*".

**[483] Clause S5.2.7 Power station auxiliary supplies**

In clause S5.2.7, after "as if the *Generator*", insert "or *Integrated Resource Provider* (as the case may be)".

**[484] Clause S5.2.8 Fault current**

In clause S5.2.8(a)(1), after "the contribution of the *generating system*", insert "or *integrated resource system*".

**[485] Clause S5.2.8 Fault current**

In clause S5.2.8(a)(2), after "a *generating system's*", insert "or *integrated resource system's*".

**[486] Clause S5.2.8 Fault current**

In clause S5.2.8(a)(3), omit each occasion of "or *generating system*" and substitute ", *generating system, bidirectional unit or integrated resource system*".

**[487] Clause S5.2.8 Fault current**

In clause S5.2.8(b)(1), after "the *generating system*", insert "or *integrated resource system*".

**[488] Clause S5.2.8 Fault current**

In clause S5.2.8(b)(2), after "the *generating system's*", insert "or *integrated resource system's*".

**[489] Clause S5.2.8 Fault current**

In clause S5.2.8(b)(3), omit each occasion of "or *generating system*" and substitute ", *generating system, bidirectional unit or integrated resource system*".

**[490] Clause S5.2.8 Fault current**

Omit clause S5.2.8(c) and substitute:

- (c) In negotiating a *negotiated access standard*, the *Network Service Provider* must consider alternative *network* configurations in the determination of the applicable fault current level and must prefer those options that maintain an equivalent level of service to other *Network Users* and which, in the opinion of the *Generator* or *Integrated Resource Provider* (as the case may be), impose the least obligation on the *Generator* or *Integrated Resource Provider*.

**[491] Clause S5.3.1a Introduction to the schedule**

Omit clause S5.3.1a(a)(1) and substitute "[Deleted]".

**[492] Clause S5.3.1a Introduction to the schedule**

Omit clause S5.3.1a(a)(2) and substitute "[Deleted]".

**[493] Clause S5.3.1a Introduction to the schedule**

In clause S5.3.1a(a)(3), omit "*market load*" and substitute "*market connection points*".

**[494] Schedule 5.4 Information to be Provided with Preliminary Enquiry**

In schedule 5.4(c), omit "*generation or*" and substitute "*generation and*".

**[495] Schedule 5.4 Information to be Provided with Preliminary Enquiry**

In schedule 5.4(d), omit "or" and substitute "and".

**[496] Schedule 5.4 Information to be Provided with Preliminary Enquiry**

In schedule 5.4(e), omit "*generating units*" and substitute "*production units*".

**[497] Schedule 5.4 Information to be Provided with Preliminary Enquiry**

In schedule 5.4(f), after "Nature of any disturbing", insert "source of".

**[498] Schedule 5.4 Information to be Provided with Preliminary Enquiry**

In schedule 5.4(g), omit "*generating unit (e.g. synchronous generating unit)*" and substitute "*production unit (e.g. synchronous production unit)*".

**[499] Schedule 5.4 Information to be Provided with Preliminary Enquiry**

In schedule 5.4(h), omit "*generating unit*" and substitute "*production unit*".

**[500] Schedule 5.4A Preliminary Response**

In schedule 5.4(a)(2), omit "*embedded generating units*" and substitute "*distribution connected units*".

**[501] Clause S5.5.5 Asynchronous generating unit data**

Omit clause S5.5.5, including the heading and substitute:

**S5.5.5 Asynchronous production unit data**

*A Generator or an Integrated Resource Provider that connects a generating system, that comprises any asynchronous generating unit, or an Integrated Resource Provider that connects an integrated resource system that (to the extent it comprises production units) comprises any asynchronous bidirectional units, must be given exemption from complying with those parts of the Power System Model Guidelines, Power System Design Data Sheet and Power System Setting Data Sheet that are determined by the Network Service Provider to be not relevant to such generating systems or integrated resource systems, but must comply with those parts of schedules 5.5.3, 5.5.4, and 5.5.5 that are relevant to such generating systems or integrated resource systems, as determined by the Network Service Provider.*

**[502] Clause S5.5.6 Generating units smaller than 30MW data**

In clause S5.5.6, after "A Generator", insert "or an Integrated Resource Provider".

**[503] New clause S5.5.6A Bidirectional units smaller than 5MW data**

After clause S5.5.6, insert:

**S5.5.6A Bidirectional units smaller than 5MW data**

*An Integrated Resource Provider that connects a bidirectional unit smaller than 5 MW or bidirectional units totalling less than 5 MW to a connection point to a distribution network must submit registered system planning data and registered data to AEMO and the relevant Network Service Provider in accordance with the requirements specified in the Power System Model Guidelines, Power System Design Data Sheet and Power System Setting Data Sheet.*

Codes:

S = Standard Planning Data

D = Detailed Planning Data

R = Registered Data (R1 pre-connection, R2 post-connection)

**[504] Clause S5.5.7 Power System Design Data Sheet, Power System Setting Data Sheet and Power System Model Guidelines**

In clause S5.5.7(a)(1), omit "5.2.5(e), 5.3.9(b)(2)" and substitute "5.2.5(e), 5.2.5A(d), 5.2.5A(e), 5.3.9(b)(2), 5.3.9(b)(2A)".

**[505] Clause S5.5.7 Power System Design Data Sheet, Power System Setting Data Sheet and Power System Model Guidelines**

In clause S5.5.7(a)(2), omit "5.2.5(e), 5.3.9(b)(2)" and substitute "5.2.5(e), 5.2.5A(d), 5.2.5A(e), 5.3.9(b)(2), 5.3.9(b)(2A)".

**[506] Clause S5.5.7 Power System Design Data Sheet, Power System Setting Data Sheet and Power System Model Guidelines**

In clause S5.5.7(a)(3), omit "5.2.5(e), 5.3.9(b)(2)" and substitute "5.2.5(e), 5.2.5A(d), 5.2.5A(e), 5.3.9(b)(2), 5.3.9(b)(2A)".

**[507] Clause S5.5.7 Power System Design Data Sheet, Power System Setting Data Sheet and Power System Model Guidelines**

Omit clause S5.5.7(b1)(1)(i) and substitute:

- (i) *Generators and Integrated Resource Providers* must provide under clause 5.2.5(d), clause 5.2.5(e), clause 5.2.5A(d), clause 5.2.5A(e), clause 5.3.9(b)(2), 5.3.9(b)(2A), clause S5.2.4 and clause S5.5.6;

**[508] Clause S5.5.7 Power System Design Data Sheet, Power System Setting Data Sheet and Power System Model Guidelines**

In clause S5.5.7(b1)(2), after "as the types of *generating systems*", insert ", *integrated resource systems*".

**[509] Clause S5.5.7 Power System Design Data Sheet, Power System Setting Data Sheet and Power System Model Guidelines**

In clause S5.5.7(b1)(4), omit "5.2.4(e), 5.3.9(b)(2)" and substitute "5.2.4(e), 5.2.5A(d), 5.2.5A(e), 5.3.9(b)(2), 5.3.9(b)(2A)".

**[510] Schedule 5.5.3 Network and plant technical data of equipment at or near connection point**

In schedule 5.5.3 table, under the subheading "**Short Circuit Infeed to the Network**", omit "*generating units*" and substitute "*production units*".



**[511] Schedule 5.5.3 Network and plant technical data of equipment at or near connection point**

In schedule 5.5.3 table, omit the subheading "**Circuits Connecting Embedded Generating Units to the Network:**" and substitute "**Circuits Connecting Distribution Connected Units to the Network:**".

**[512] Schedule 5.5.3 Network and plant technical data of equipment at or near connection point**

In schedule 5.5.3 table, under the subheading "**Circuits Distribution Connected Units to the Network:**", omit "and *generating systems*" and substitute ", *generating systems, bidirectional units and integrated resource systems*".

**[513] Schedule 5.6 Terms and Conditions of Connection agreements and network operating agreements**

In schedule 5.6, under Part A, in paragraph (c1), after "or schedule 5.2 for *Generators*", insert "and *Integrated Resource Providers*".

**[514] Schedule 5.6 Terms and Conditions of Connection agreements and network operating agreements**

In schedule 5.6, under Part A, in paragraph (k), after "where an expected *load*", insert "or *bidirectional unit*".

**[515] Schedule 5.8 Distribution Annual Planning Report**

Omit schedule 5.8(b)(2)(ix) and substitute:

- (ix) *generation capacity of known distribution connected units;*

**[516] Schedule 5.8 Distribution Annual Planning Report**

In schedule 5.8(b)(2A), including its subparagraphs, omit all references to "*embedded generating units*" and substitute "*distribution connected units*".

**[517] Schedule 5.8 Distribution Annual Planning Report**

In schedule 5.8(c)(5), omit "*embedded generating units*" and substitute "*distribution connected units*".

**[518] Schedule 5.8 Distribution Annual Planning Report**

In schedule 5.8(d1) and all its subparagraphs, omit all references to "*embedded generating units*" and substitute "*distribution connected units*".

**[519] Schedule 5.8 Distribution Annual Planning Report**

In schedule 5.8(1) and all its subparagraphs, omit all references to "*embedded generating units*" and substitute "*distribution connected units*".

**[520] Schedule 5.8 Distribution Annual Planning Report**

In schedule 5.8(1)(2), including all its subparagraphs, omit all references to "*non-registered embedded generators*" and substitute "*non-registered DER providers*".

**[521] Schedule 5.8 Distribution Annual Planning Report**

In schedule 5.8(1)(3), including all its subparagraphs, omit all references "*micro embedded generators or non-registered embedded generators*" and substitute "*micro resource operators or non-registered DER providers*".

**[522] Schedule 5.9 Demand side engagement document  
(clause 5.13.1(h))**

In schedule 5.9(i), omit "*Embedded Generators*" and substitute "*Distribution Connected Resource Providers*".

**[523] Schedule 5.9 Demand side engagement document  
(clause 5.13.1(h))**

In schedule 5.9(j), omit "*embedded generating units*" and substitute "*distribution connected units*".

**[524] Schedule 5.9 Demand side engagement document  
(clause 5.13.1(h))**

In schedule 5.9(k), omit "*embedded generating unit*" and substitute "*distribution connected unit*".

**[525] Clause 5A.A.1 Definitions**

In clause 5A.A.1, in the definition of "**basic connection service**", omit "*non-registered embedded generator's*" and substitute "*non-registered DER provider's*".

**[526] Clause 5A.A.1 Definitions**

In clause 5A.A.1, in the definition of "**basic connection service**", in paragraph (a)(2), omit "*micro embedded generator*" and substitute "*micro resource operator*".

**[527] Clause 5A.A.1 Definitions**

In clause 5A.A.1, omit the definition "**basic micro EG connection service**" and substitute:

**basic micro DER connection service**

means a *basic connection service* for a *retail customer* who is a *micro resource operator*.

### **[528] Clause 5A.A.1 Definitions**

In clause 5A.A.1, omit the definition of "MSGA Customer".

### **[529] Clause 5A.A.1 Definitions**

In clause 5A.A.1, in the heading of "**micro EG connection**", omit "EG" and substitute "DER".

### **[530] Clause 5A.A.1 Definitions**

In clause 5A.A.1, in the definition of "**micro DER connection**", omit "an *embedded generating unit*" and substitute "a *distribution connected unit*".

### **[531] Clause 5A.A.1 Definitions**

In clause 5A.A.1, insert the following definition in alphabetical order:

#### **SRA Customer**

means a person who owns, operates or controls, or proposes to own, operate or control, a *small generating unit* or *small bidirectional unit* and who has an agreement with a *Small Resource Aggregator* relating to the *small generating unit* or *small bidirectional unit* (as the case may be) under which the *Small Resource Aggregator* is *financially responsible* for the *small resource connection point* for the relevant unit.

### **[532] Clause 5A.A.2 Application of this Chapter**

In clause 5A.A.2(b), omit the opening paragraph and substitute:

- (b) Where a *non-registered DER provider* (other than a *non-registered DER provider* to whom paragraph (a1) applies) wishing to *connect a generating system* or *integrated resource system* to a *Distribution Network Service Provider's network*:

### **[533] Clause 5A.A.2 Application of this Chapter**

Omit clause 5A.A.2(c) and substitute:

- (c) A *non-registered DER provider* that meets the requirements in paragraph (b)(2) may elect to seek *connection* of the relevant *plant* under rule 5.3A instead of this Chapter.

### **[534] Clause 5A.A.2 Application of this Chapter**

In clause 5A.A.2(d), omit "*non-registered embedded generator*" and substitute "*non-registered DER provider*".

**[535] Clause 5A.A.2 Application of this Chapter**

In clause 5A.A.2(e), omit "*non-registered embedded generator*" and substitute "*non-registered DER provider*".

**[536] Clause 5A.A.3 Small Generation Aggregator deemed to be a retail customer**

Omit the heading of clause 5A.A.3 and substitute:

**5A.A.3 Small Resource Aggregator deemed to be agent of its SRA customers**

**[537] Clause 5A.A.3 Small Resource Aggregator deemed to be agent of a retail customer**

Omit clause 5A.A.3 in its entirety and substitute:

*A Small Resource Aggregator is deemed to be the agent of its SRA customers for the purposes of this Chapter.*

**[538] Clause 5A.B.1 Obligation to have model standing offer to provide basic connection services**

Omit clause 5A.B.1(b), including the **Note** and substitute:

- (b) *Basic connection services* are of 2 classes:
- (1) *basic connection services for retail customers who are not distribution connected unit operators; and*
  - (2) *basic connection services for retail customers who are micro resource operators.*

**Note**

*Basic connection services are not available to non-registered DER providers.*

**[539] Clause 5A.B.2 Proposed model standing offer for basic connection services**

In clause 5A.B.2, omit "*EG*" and substitute "*DER*".

**[540] Clause 5A.B.2 Proposed model standing offer for basic connection services**

Omit clause 5A.B.2(b)(7)(v) and substitute:

- (v) the requirement that the new or replacement *distribution connected unit* the subject of the *basic micro DER connection service* must be compliant with the *DER Technical Standards*.

**[541] Clause 5A.B.3 Approval of terms and conditions of model standing offer to provide basic connection services**

In clause 5A.B.3(a)(1)(i), omit "*embedded generating unit operators*" and substitute "*distribution connected unit operators*".

**[542] Clause 5A.B.3 Approval of terms and conditions of model standing offer to provide basic connection services**

In clause 5A.B.3(a)(1)(ii), omit "*micro embedded generators*" and substitute "*micro resource operators*".

**[543] Clause 5A.B.3 Approval of terms and conditions of model standing offer to provide basic connection services**

In clause 5A.B.3(a)(5), omit "*EG*" and substitute "*DER*".

**[544] Clause 5A.C.3 Negotiation framework**

Omit clause 5A.C.3(a)(3)(v) (excluding the note) and substitute:

- (v) if the *connection applicant* is proposing to connect a new or replacement *distribution connected unit* by way of a *basic micro DER connection service*, that the *distribution connected unit* must be compliant with the *DER Technical Standards*.

**[545] Clause 5A.D.1 Publication of information**

In clause 5A.D.1(a)(3), omit "*non-registered embedded generators*" and substitute "*non-registered DER providers*".

**[546] Clause 5A.D.1 Publication of information**

Omit clause 5A.D.1(a)(7) and substitute:

- (7) information set out in clauses 5.3A.3(b)(1)(vii) and 5.3A.3(b)(2)-(7) as such information relates to the *connection of distribution connected units* by a *non-registered DER provider*.

**[547] Clause 5A.D.1A Register of completed embedded generation projects**

In the heading of clause 5A.D.1A, omit "**embedded generation**" and substitute "**non-registered DER**".

**[548] Clause 5A.D.1A Register of completed resource projects**

In clause 5A.D.1A(a), omit the definition "completed non-registered embedded generation projects" and substitute:

**completed non-registered DER projects** means all *distribution connected units*, operated or controlled by a *non-registered DER provider* that are *connected* to the *Distribution Network Service Provider's network*.

**[549] Clause 5A.D.1A Register of completed resource projects**

In clause 5A.D.1A(b), omit "embedded generation" and substitute "DER".

**[550] Clause 5A.D.1A Register of completed resource projects**

Omit clause 5A.D.1A(b)(1) and (2) and substitute:

- (1) technology of *distribution connected unit* (e.g. *synchronous production unit*, induction generator, photovoltaic array, etc) and its make and model;
- (2) maximum power *generation* capacity of all *distribution connected units* comprised in the relevant *generating system* or *integrated resource system*;

**[551] Clause 5A.D.1A Register of completed resource projects**

In clause 5A.D.1A(d)(1) and (2), omit each reference to "embedded generation" and substitute "DER".

**[552] Clause 5A.E.1 Connection charge principles**

In clause 5A.E.1(b), omit "*non-registered embedded generator*" and substitute "*non-registered DER provider*".

**[553] Clause 5A.E.3 Connection charge guidelines**

In clause 5A.E.3(b1), omit "*micro EG connections*" and substitute "*micro DER connections*".

**[554] Clause 5A.E.3 Connection charge guidelines**

In clause 5A.E.3(b1)(2), omit "*micro embedded generators*" and substitute "*micro resource operators*".

**[555] Clause 5A.E.3 Connection charge guidelines**

In clause 5A.E.3(c)(4), omit ""*non-registered embedded generator*" and substitute "*non-registered DER provider*".

**[556] Clause 5A.E.3 Connection charge guidelines**

In clause 5A.E.3(c)(8), omit "*micro embedded generator*" and substitute "*micro resource operator*".

**[557] Clause 5A.E.4 Payment of connection charges**

In clause 5A.E.4, omit each reference to "*Market Small Generation Aggregator*" and substitute "*Small Resource Aggregator*".

**[558] Clause 5A.F.1 Distribution Network Service Provider's response to application**

In clause 5A.F.1(c), omit "*micro embedded generator*" and substitute "*micro resource operator*".

**[559] Clause 5A.F.7 Energisation where new connection**

In clause 5A.F.7, omit each reference to "*Market Small Generation Aggregator*" and substitute "*Small Resource Aggregator*".

**[560] Schedule 5A.1 Minimum content requirements for connection contract**

In the heading of Part B in Schedule 5A.1, omit "**embedded generation**" and substitute "**distribution connected units**".

**[561] Schedule 5A.1 Minimum content requirements for connection contract**

In Part B of Schedule 5A.1, in paragraph (a), omit all references to "*an embedded generating unit operator*" and substitute "*a distribution connected unit operator*".

**[562] Schedule 5A.1 Minimum content requirements for connection contract**

In Part B of Schedule 5A.1, in paragraph (a), including its subparagraphs, omit all references to "*the embedded generating unit operator's*" and substitute "*the distribution connected unit operator's*".

**[563] Schedule 5A.1 Minimum content requirements for connection contract**

In Part B of Schedule 5A.1, in paragraph (a), including its subparagraphs, omit all references to "*the embedded generating unit operator*" and substitute "*the distribution connected unit operator*".



**[564] Schedule 5A.1 Minimum content requirements for connection contract**

In Part B of Schedule 5A.1, in subparagraph (a)(7A), omit all references to "*embedded generating unit*" and substitute "*distribution connected unit*".

**[565] Schedule 5A.1 Minimum content requirements for connection contract**

In Part B of Schedule 5A.1, in subparagraph (a)(7A), omit "*basic micro EG connection service*" and substitute "*basic micro DER connection service*".

**[566] Schedule 5A.1 Minimum content requirements for connection contract**

In Part B of Schedule 5A.1, in subparagraph (b)(6), omit "*embedded generating unit operator*" and substitute "*distribution connected unit operator*".

## **Schedule 5      Amendment to the National Electricity Rules**

(Clause 7)

### **[1] Clause 6.6.1      Cost pass through**

In clause 6.6.1(c)(6)(iii), omit all references to "*Market Small Generation Aggregator*" and substitute "*Small Resource Aggregator*".

### **[2] Clause 6.6.1      Cost pass through**

In clause 6.6.1(1), omit all references to "*Market Small Generation Aggregator*" and substitute "*Small Resource Aggregator*".

### **[3] Clause 6.7.2      Determination of terms and conditions of access for negotiated distribution services**

In clause 6.7.2(b)(3), omit "*use of system services charges and access charges*" and substitute "charges".

### **[4] Clause 6.7A.1      Preparation of, and requirements for, connection policy**

In clause 6.7A.1(b)(2)(v), omit "*non-registered embedded generator*" and substitute "*non-registered DER provider*".

### **[5] Clause 6.8.1B      Export Tariff Guidelines**

In clause 6.8.1B(b), omit "*Market Small Generation Aggregators*" and substitute "*Small Resource Aggregators*".

### **[6] Clause 6.8.2      Submission of regulatory proposal, tariff structure statement and exemption application**

In clause 6.8.2(c1)(2)(i), omit "*Market Small Generation Aggregators*" and substitute "*Small Resource Aggregators*".

### **[7] Clause 6.8.2      Submission of regulatory proposal, tariff structure statement and exemption application**

In clause 6.8.2(c1)(3), omit "*micro embedded generators and non registered embedded generators*" and substitute "*micro resource operators and non-registered DER providers*".

**[8] Clause 6.8.2 Submission of regulatory proposal, tariff structure statement and exemption application**

In clause 6.8.2(c1)(7), omit "*micro embedded generators and non-registered embedded generators*" and substitute "*micro resource operators and non-registered DER providers*".

**[9] Clause 6.18.1B Amending a tariff structure statement with the AER's approval**

In clause 6.18.1B(b)(6)(i), omit "*Market Small Generation Aggregators*" and substitute "*Small Resource Aggregators*".

**[10] Clause 6.18.1C Sub-threshold tariffs**

In clause 6.18.1C(a), omit "*Market Small Generation Aggregators*" and substitute "*Small Resource Aggregators*".

**[11] Clause 6.18.5 Pricing principles**

In clause 6.18.5(i), omit all references to "*Market Small Generation Aggregators*" and substitute "*Small Resource Aggregators*".

**[12] Clause 6.19.1 Forecast use of networks by Distribution Customers and Embedded Generators**

Omit the heading of clause 6.19.1 and substitute:

**6.19.1 Forecast use of networks by Distribution Customers and Distribution Connected Resource Providers**

**[13] Rule 6.20 Billing and Settlements Process**

Omit rule 6.20 and substitute:

This rule describes the manner in which *Distribution Customers* and *Distribution Connected Resource Providers* are billed by *Distribution Network Service Providers* for *distribution services* and to pass through *system strength charges* and how payments for *distribution services* and pass through of *system strength charges* are settled.

**[14] Clause 6.20.1 Billing for distribution services**

In clause 6.20.1(a)(1), omit "*Embedded Generators*" and substitute "*Distribution Connected Resource Providers*".

**[15] Clause 6.20.1 Billing for distribution services**

In clause 6.20.1(a)(1)(i), omit "*Embedded Generator*" and substitute "*Distribution Connected Resource Provider*".

**[16] Clause 6.20.1 Billing for distribution services**

In clause 6.20.1(b), omit all references to "*Market Small Generation Aggregator*" and substitute "*Small Resource Aggregator*".

**[17] Clause 6.20.1 Billing for distribution services**

In clause 6.20.1(c), omit "*Market Small Generation Aggregator*" and substitute "*Small Resource Aggregator*".

**[18] Clause 6.20.1 Billing for distribution services**

Omit clause 6.20.1(e) and substitute:

(e) Charges for *distribution services* based on metered kW, kWh, kVA, or kVAh for:

- (1) *Distribution Connected Resource Providers* that are *Market Participants*;
- (2) *Market Customers* and *Small Resource Aggregators*;
- (3) **[Deleted]**; and
- (3A) *Non-Registered Customers*;

must be calculated by the *Distribution Network Service Provider* from:

- (4) *settlements ready data* obtained from *AEMO's metering database*, for those *Distribution Connected Resource Providers*, *Market Customers* and *Non-Registered Customers* with *connection points* that have a type 1, 2 or 3 *metering installation*; and
- (5) *metering data*, in accordance with a *metrology procedure* that allows the *Distribution Network Service Provider* to use *energy data* for this purpose, or otherwise *settlements ready data* obtained from *AEMO's metering database*, for those *Distribution Connected Resource Providers*, *Small Resource Aggregators*, *Market Customers* and *Non-Registered Customers* with *connection points* that have a type 4, 4A, 5, 6 or 7 *metering installation*.

**[19] Clause 6.20.1 Billing for distribution services**

Omit clause 6.20.1(f)(1) and substitute:

- (1) *Distribution Connected Resource Providers* that are not *Market Participants*; and

**[20] Clause 6.21.1 Prudential requirements for distribution network service**

In clause 6.21.1(a), omit "an *Embedded Generator*" and substitute "a *Distribution Connected Resource Provider*".

**[21] Clause 6.21.1 Prudential requirements for distribution network service**

Omit clause 6.21.1(b) and substitute:

- (b) Prudential requirements for *connection service* and/or *distribution use of system service* are a matter for negotiation between the *Distribution Network Service Provider* and the *Distribution Connected Resource Provider* or *Distribution Customer* and the terms agreed must be set out in the *connection agreement* between the *Distribution Network Service Provider* and the *Distribution Connected Resource Provider* or *Distribution Customer*.

**[22] Clause 6.21.1 Prudential requirements for distribution network service**

Omit clause 6.21.1(c)(3) and substitute:

- (3) the conditions applying in the event of default by the *Distribution Customer* or *Distribution Connected Resource Provider*.

**[23] Clause 6.21.3 Treatment of past prepayments and capital contributions**

In clause 6.21.3(a), omit "*Embedded Generators*" and substitute "*Generators*".

**[24] Clause 6.21.3 Treatment of past prepayments and capital contributions**

In clause 6.21.3(c), omit "*Embedded Generator*" and substitute "*Generator*".

**[25] Clause 6.22.2 Determination of dispute**

After clause 6.22.2(b), insert a new clause 6.22.2(b1) as follows:

- (b1) Subject to paragraphs (a) and (b), in determining an access dispute about the *terms and conditions of access* to a *direct control service* for a *Distribution Network User* other than a *retail customer*, the *AER* must apply the principles in clause 6.7.1 as if the *direct control service* were a *negotiated distribution service* for the purposes of that clause.

**[26] Rule 6.23                      Separate disclosure of transmission and distribution charges**

Omit rule 6.23(a)(1) and substitute:

- (1) with a *maximum demand* greater than 10MW or electricity consumption greater than 40GWh per annum; or

**[27] Rule 6.27A                      Annual DER network service provider performance report**

In rule 6.27A(a), omit "*embedded generating units*" and substitute "*distribution connected units*".

**[28] Clause 6B.A1.1      Application of this Part**

In clause 6B.A1.1(a), omit "*Market Small Generation Aggregator*" and substitute "*Small Resource Aggregator*".

**[29] Clause 6B.A1.1      Application of this Part**

Omit clause 6B.A1.1(b) and substitute:

- (b) applies (to the exclusion of Part J of Chapter 6) to a *Market Customer* who is a *retailer* and to a *Small Resource Aggregator*; and

**[30] Clause 6B.A1.2      Definitions**

In clause 6B.A1.2, in the definition of "date of issue", omit "*Market Small Generation Aggregator*" and substitute "*Small Resource Aggregator*".

**[31] Clause 6B.A1.2      Definitions**

In clause 6B.A1.2, in the definition of "retail billing period", omit "*Market Small Generation Aggregator*" and substitute "*Small Resource Aggregator*".

**[32] Clause 6B.A1.2      Definitions**

In clause 6B.A1.2, in the definition of "retailer", omit "*Market Small Generation Aggregator*" and substitute "*Small Resource Aggregator*".

**[33] Clause 6B.A1.2      Definitions**

In clause 6B.A1.2, in the definition of "shared customer", omit paragraph (b) and substitute:

- (b) in relation to a *Distribution Network Service Provider* and a *Small Resource Aggregator*, means a person who is an *SRA customer* of the *Small Resource Aggregator* and whose *small generating unit* or *small bidirectional unit* is connected to the *Distribution Network Service Provider's distribution system*.

**[34] Clause 7.4.1      Qualifications and registration of  
Metering Providers**

In clause 7.4.1(e), after "*A Market Generator*" insert "*or Integrated Resource Provider*".

**[35] Clause 7.4.1      Qualifications and registration of  
Metering Providers**

In clause 7.4.1(f), after "*Market Customer*" insert "*or Small Resource Aggregator*".

**[36] Clause 7.4.2      Qualifications and registration of  
Metering Data Providers**

In clause 7.4.2(e), after "*A Market Generator*" insert "*or Integrated Resource Provider*".

**[37] Clause 7.4.2      Qualifications and registration of  
Metering Data Providers**

In clause 7.4.2(f), after "*Market Customer*" insert "*or Small Resource Aggregator*".

**[38] Clause 7.6.2      Persons who may appoint Metering  
Coordinators**

In clause 7.6.2(a)(2), after "*a generating system*" insert "*or integrated resource system*".

**[39] Clause 7.6.2      Persons who may appoint Metering  
Coordinators**

In clause 7.6.2(a)(2)(i), after "*connection point;*" insert "or".

**[40] Clause 7.6.2      Persons who may appoint Metering  
Coordinators**

Omit clause 7.6.2(a)(2)(ii) and substitute :

- (ii) a *Non-Market Generator* or *Non-Market Integrated Resource Provider* who owns, controls or operates the *generating system* or *integrated resource system* that is connected to the *distribution network* at the *connection point*; or

**[41] Clause 7.6.2      Persons who may appoint Metering  
Coordinators**

Omit clause 7.6.2(a)(2)(iii) and substitute:

- (iii) a person who owns, controls or operates the *generating system* or *integrated resource system* that is connected to the *distribution network* at the *connection point* and is exempt from the requirement to register as a *Generator*



or *Integrated Resource Provider* under clause 2.1A.2(a);  
and

**[42] Clause 7.6.2      Persons who may appoint Metering Coordinators**

In clause 7.6.2(c)(1), omit "*market load* at the".

**[43] Clause 7.8.2      Metering installation components**

Omit clause 7.8.2(b1) and substitute:

- (b1) Any type 4 *metering installation* must be capable of recording and providing, and configured to record and provide, *trading interval energy data*.

**[44] Clause 7.8.2      Metering installation components**

In clause 7.8.2, omit the heading after paragraph (ec) and substitute:

**Requirements for metering installations for non-market generating units and non-market bidirectional units**

**[45] Clause 7.8.2      Metering installation components**

In clause 7.8.2(f), after "*non-market generating unit*" insert "or *non-market bidirectional unit*".

**[46] Clause 7.8.2      Metering installation components**

In clause 7.8.2(f)(5), omit "sent out annual *energy* volumes" and substitute "annual *sent out generation*".

**[47] Clause 7.8.2      Metering installation components**

In clause 7.8.2(f)(6), omit "the *generating unit*" and substitute "the *productions unit*".

**[48] Clause 7.8.2      Metering installation components**

In clause 7.8.2, omit the heading after paragraph (f) and substitute:

**Requirements for metering installations for small resource connection points**

**[49] Clause 7.8.2      Metering installation components**

Omit clause 7.8.2(g) and substitute:

- (g) In addition to the requirements for *metering installations for non-market generating units* and *non-market bidirectional units* in

paragraph (f), the *Metering Coordinator* for a *small resource connection point* must ensure that a *metering installation*:

- (1) is classified as a type 1, 2, 3 or 4 *metering installation*; and
- (2) is capable of recording *interval energy data* relevant to *settlements*.

**[50] Clause 7.8.9 Meter churn**

Omit clause 7.8.9(g) and substitute:

- (g) The *meter churn procedures* must include provisions that enable the installation of a new or replacement *metering installation* at a *connection point* as soon as practicable after the transfer of a *connection point* to a different *financially responsible Market Participant* has been effected by *AEMO*.

**[51] Clause 7.10.2 Data management and storage**

Omit clause 7.10.2(b) and substitute:

- (b) *Metering Data Providers* accredited for type 7 *metering installations* must maintain techniques for determining *calculated metering data* for type 7 *metering installations*.

**[52] Clause 7.10.5 Periodic energy metering**

In clause 7.10.5(b)(1), omit "for each *first-tier load* and *market load*".

**[53] Clause 7.10.6 Time settings**

Omit clause 7.10.6(a) (excluding the note) and substitute:

- (a) The *Metering Provider* must set the times of clocks of all *metering installations* with reference to *Eastern Standard Time* to the applicable standard of accuracy in accordance with Schedule 7.4 when installing, testing and maintaining *metering installations*.

**[54] Clause 7.10.6 Time settings**

In clause 7.10.6(d)(2), omit "relevant to the *load* through the *connection point*".

**[55] Clause 7.11.3 Changes to energy data or to metering data**

In clause 7.11.3(d), omit "*connection point loads*" and substitute "*energy* consumed at that *connection point*".

**[56] Clause 7.15.6 Access to baseline data**

In clause 7.15.6(f), after all references to "*retailer*" insert "or *Small Resource Aggregator*".

**[57] Clause 7.16.3 Requirements of the metrology procedure**

In clause 7.16.3(c)(6A), omit ", which has been classified as a *market load*,".

**[58] Clause 7.16.5 Additional metrology procedure matters**

In clause 7.16.5(a)(1)(iv), omit "*market load* connected to a" and substitute "*market connection point* on a".

**[59] Clause 7.16.5 Additional metrology procedure matters**

In clause 7.16.5(a)(2)(v), omit "*market load* that is connected to" and substitute "*market connection point* on".

**[60] Clause S7.1.2 Metering register information**

Omit clause S7.1.2(e) and substitute:

- (e) Data processing prior to the *settlement* process.

**[61] Clause S7.4.3 Accuracy requirements for metering installations**

In clause S7.4.3, after Table S7.4.3.1, in Item 5, in paragraph (c), omit "that have been classified as *market loads*".

**[62] Clause 8.2.1 Application and guiding principles**

In clause 8.2.1(h)(1), omit "2.2.1(c)" and substitute "2.1A.2".

**[63] Clause 8.2.1 Application and guiding principles**

Omit clause 8.2.1(h)(2) and substitute:

- (2) a decision by *AEMO* under clause 2.2.2 not to approve the classification of:
  - (i) a *generating unit* as a *scheduled generating unit*;
  - (ii) a *bidirectional unit* as a *scheduled bidirectional unit*;
  - (iii) a *bidirectional unit* as a *scheduled generating unit* and a *scheduled load*; or
  - (iv) a *bidirectional unit* as a *semi-scheduled generating unit* and a *scheduled bidirectional unit*;

**[64] Clause 8.2.1 Application and guiding principles**

In clause 8.2.1(h)(3), after "a *non-scheduled generating unit*" insert "or the classification of a *bidirectional unit* as a *non-scheduled bidirectional unit*".

**[65] Clause 8.2.1 Application and guiding principles**

After clause 8.2.1(h)(3), insert a new clause 8.2.1(h)(3A) as follows:

- (3A) a decision by *AEMO* under clause 2.2.5 or clause 2.2.5B (as applicable) not to approve classification as a *non-market generating unit* or *non-market bidirectional unit*;

**[66] Clause 8.2.1 Application and guiding principles**

In clause 8.2.1(h)(4), after "clause 2.9.2(c)" insert "or clause 2.9B(g)".

**[67] Clause 8.2.1 Application and guiding principles**

In clause 8.2.1(h)(5), after "*Market Customer* under clause 2.10.1(d)" insert "or from a *Small Resource Aggregator* under clause 2.10.1(d1)".

**[68] Clause 8.2.1 Application and guiding principles**

Omit clause 8.2.1(h)(5C).

**[69] Clause 8.6.2 Exceptions**

Omit clause 8.6.2(b1) and substitute:

- (b1) (**service providers**): the disclosure of *NMI Standing Data* or the provision of means to gain electronic access to that data by a *Customer* or *Integrated Resource Provider* or the *Customer's* or the *Integrated Resource Provider's Disclosees* to a person who requires the *NMI Standing Data* for the purposes of providing services in connection with the *Customer's* or *Integrated Resource Provider's* sale of electricity to end users.

**[70] Clause 9.12.2 Customers**

In clause 9.12.2(a), omit ", 2.3.1(e) and for the purposes of clause 2.4.2(b) in so far as it relates to *Customers*" and substitute "2.3.1A(a)".

**[71] Clause 9.26.2 Registration as a Customer**

In clause 9.26.2, omit "2.3.1(e)" and substitute "2.3.1A(a)".

**[72] Clause 9.34.4 Registration as a Customer (clause 2.3.1)**

In the heading of clause 9.34.4, omit "clause 2.3.1" and substitute "clause 2.3.1A".

**[73] Clause 9.34.4 Registration as a Customer (clause 2.3.1A)**

In clause 9.34.4(a), omit "clause 2.3.1(e)" and substitute "clause 2.3.1A(a)".

**[74] Clause 9.34.4 Registration as a Customer (clause 2.3.1A)**

In clause 9.34.4(b), omit "clause 2.3.1(e)" and substitute "clause 2.3.1A(a)".

**[75] Rule 9.44 Transitional Arrangements for Chapter 2 – Registered Participants and Registration – Customers (clause 2.3.1(e))**

In the heading of rule 9.44, omit "clause 2.3.1(e)" and substitute "2.3.1A(a)".

**[76] Rule 9.44 Transitional Arrangements for Chapter 2 – Registered Participants and Registration – Customers (clause 2.3.1A(a))**

Omit rule 9.44 and substitute:

For the purposes of clause 2.3.1A(a), a person satisfies the requirements of Tasmania for classification of a *connection point* of that person if that person is a *retailer* or is a contestable customer within the meaning of the ESI Act in respect of that *connection point*.

**[77] Clause 11.141.12 Export tariffs subject to basic export level**

In clause 11.141.12(a), omit "an *embedded generating unit*" and substitute "a *distribution connected unit*".

**[78] Clause 11.141.13 Basic export levels to be specified in tariff structure statements**

In clause 11.141.13(b)(1)(i), omit "*embedded generating units*" and substitute "*distribution connected units*".

**[79] Clause 11.141.13 Basic export levels to be specified in tariff structure statements**

In clause 11.141.13(b)(1)(ii), omit "*embedded generating units*" and substitute "*distribution connected units*".

**[80] Clause 11.141.14 Basic export level guidelines**

In clause 11.141.14(b)(2), omit "*embedded generating units*" and substitute "*distribution connected units*".

**[81] Clause 11.143.11 Application of the Amending Rule to Existing Connection Agreements**

In clause 11.143.11(b), omit "*Generator* who has entered into" and substitute "party to".

**[82] Clause 11.143.11 Application of the Amending Rule to Existing Connection Agreements**

Omit clause 11.143.11(c) and substitute:

- (c) Notwithstanding any other provision of the *Rules*, new clause S5.2.5.15 and new clause S5.2.5.16 do not apply to a party to an Existing Connection Agreement who, after the commencement date, proposes to alter its *plant connected* under the terms of that Existing Connection Agreement and has advised *AEMO* in accordance with clause 5.3.9, unless *AEMO*, the person and the relevant *Network Service Provider* agree to apply new clause 5.2.5.15 or new clause 5.2.5.16.

## Schedule 6 Amendment to the National Electricity Rules

(Clause 8)

### [1] Chapter 10 New definitions

In chapter 10, insert the following new definitions in alphabetical order:

#### *adjusted consumed energy*

The *adjusted consumed energy* determined in accordance with clause 3.15.4.

#### *adjusted sent out energy*

The *adjusted sent out energy* determined in accordance with clause 3.15.4.

#### *affected load*

A *scheduled load* or *scheduled bidirectional unit* in respect of which a *Market Customer* or *Integrated Resource Provider* is an *Affected Load Participant*.

#### *Affected Load Participant*

A person who satisfies paragraph (a) or (b), to the extent provided for in the paragraph:

- (a) In respect of a particular *direction* in an *intervention price trading interval*, a *Market Customer* in respect of its *scheduled load*, or an *Integrated Resource Provider* in respect of its *scheduled bidirectional unit*, where:
  - (1) the *scheduled load* or *scheduled bidirectional unit* was not the subject of that *direction*; and
  - (2) the *dispatched load* quantity of the *scheduled load* or *scheduled bidirectional unit* was affected by that *direction*,but to avoid doubt, if the *Market Customer* or *Integrated Resource Provider* was given the *direction*, it is only an *Affected Load Participant* in respect of those *scheduled loads* or *scheduled bidirectional units* that satisfy subparagraphs (a)(1) and (a)(2).
- (b) In relation to the exercise of the *RERT* under rule 3.20, a *Market Customer* in respect of its *scheduled load*, or an *Integrated Resource Provider* in respect of its *scheduled bidirectional unit*, where:
  - (1) the *scheduled load* or *scheduled bidirectional unit* was not *dispatched* under a *scheduled reserve contract* and the *dispatched load* quantity of the *scheduled load* or *scheduled*



*bidirectional unit* was affected by the *dispatch* of other *scheduled reserve* under a *scheduled reserve contract*; or

- (2) the *dispatched load* quantity of the *scheduled load* or *scheduled bidirectional unit* was affected by the *activation* of *unscheduled reserves* available under an *unscheduled reserve contract*.

***affected network service***

A *scheduled network service* in respect of which a *Scheduled Network Service Provider* is an *Affected Participant*.

***affected production unit***

A *scheduled generating unit* or *scheduled bidirectional unit* in respect of which a *Scheduled Generator* or an *Integrated Resource Provider* is an *Affected Participant*.

***ancillary service unit***

A *generating unit*, *bidirectional unit* or other *connected plant* that has been classified in accordance with Chapter 2 as an *ancillary service unit*.

***asynchronous bidirectional unit***

A *bidirectional unit* that is not a *synchronous bidirectional unit*.

***asynchronous production unit***

A *production unit* that is not a *synchronous production unit*.

***auxiliary load***

Electricity consumption used for the operation of a *production unit* but excluding electricity consumption used to create the source of energy converted by the *production unit* to produce electrical power.

**Note:**

Auxiliary load does not include electricity consumption used to charge a *production unit* or to pump water for a pumped hydro *production unit*.

***basic micro DER connection service***

Has (in the context of Chapter 5A) the meaning given in clause 5A.A.1.

***bid validation data***

Data submitted by *Market Participants* to *AEMO* in relation to their *scheduled resources* and *ancillary service units* in accordance with schedule 3.1.

***bidirectional unit***

- (a) Subject to paragraphs (b) and (c), a *production unit* that also consumes electricity.

**Note:**

Consumption of electricity includes the use of electricity to charge a *production unit* or to pump water for a pumped hydro *production unit*.

- (b) For paragraph (a), disregard *auxiliary load*.
- (c) A *bidirectional unit* within the meaning of paragraph (a) of this definition, that has been classified as a *scheduled generating unit* under clause 2.2.2(b2), is taken for the purposes of the *Rules* (except rules 2.1A and 2.1B and clauses 2.2.2(a) to (b4) or as otherwise provided in the *Rules*) to be a *generating unit* (and not a *bidirectional unit*).

**Note:**

Clause 2.2.2(b)(2) provides for the classification of a *bidirectional unit* that is not capable of transitioning linearly from consuming to producing electricity and vice versa. In general terms, these units are *bidirectional units* for registration and classification purposes and otherwise, are *generating units* and *scheduled loads*. Unless the system the unit is part of would satisfy the definition of *integrated resource system* for other reasons, in general terms the system will be an *integrated resource system* for registration and classification purposes and otherwise, a *generating system*.

***Cost Recovery Market Participant***

A person who is registered by *AEMO* under Chapter 2 as a *Generator*, *Integrated Resource Provider* or *Customer*.

***coupled production unit***

A *production unit* with separate *plant* for the production of electricity, each of a different *plant* type (for example, *intermittent* and *non-intermittent*) and capable of separate operation but that share equipment (such as an inverter) essential to the functioning of each.

***default bid***

A *dispatch bid* in respect of a *scheduled resource*, or a *market ancillary service bid* in respect of an *ancillary service unit*, to apply from a specified future *trading day*.

***directed resource***

A *scheduled resource* (other than a *wholesale demand response unit*), *ancillary service unit*, *market generating unit* or *market bidirectional unit* in relation to which a *Directed Participant* is given a *direction*.

***dispatched network service***

The *scheduled network service* which has been *dispatched* as part of *central dispatch*.

***distribution connected bidirectional unit***

A *bidirectional unit* connected within a *distribution system* and not having direct access to the *transmission network*.

***distribution connected generating unit***

A *generating unit* connected within a *distribution system* and not having direct access to the *transmission network*.

***Distribution Connected Resource Provider***

A *Generator* or *Integrated Resource Provider* who owns, operates or controls a *distribution connected unit*.

***distribution connected unit***

A *distribution connected generating unit* or a *distribution connected bidirectional unit*.

***distribution connected unit operator***

A person who owns, controls or operates a *distribution connected unit*.

***energy constrained scheduled bidirectional unit***

A *scheduled bidirectional unit* in respect of which the amount of electricity it is capable of producing or consuming on a *trading day* is less than the amount of electricity it would produce or consume on that *trading day* if it were *dispatched* to its full nominated availability for the whole *trading day*.

***failed Small Resource Aggregator***

A *Small Resource Aggregator* in respect of whom an *insolvency official* has been appointed.

***inertia unit***

A *generating unit* or *bidirectional unit* registered with *AEMO* under clause 5.20B.6(b).

***Integrated Resource Provider***

A person who is registered by *AEMO* as an *Integrated Resource Provider* under Chapter 2.

For the purposes of Chapter 5, the term includes a person who is required or intends to register in that capacity or a *non-registered DER provider* who has made an election under clause 5A.A.2(c).

***integrated resource system***

- (a) Subject to the remaining paragraphs of this definition, any of the following:
  - (1) a system comprising one or more *bidirectional units* (and which may also comprise one or more *generating units* or other *connected plant* that is not part of a *bidirectional unit*); and
  - (2) a system comprising one or more *generating units* where the *connection point* for the system is used to *supply* electricity for consumption on the system side of the *connection point*.
- (b) For the purposes of paragraph (a)(2), disregard consumption to the extent it is *auxiliary load*.
- (c) For the purposes of clause 2.1B.2(b)(4), clause 4.9.2 and Chapter 5, an *integrated resource system* includes *auxiliary* or *reactive plant* that is located on the *Integrated Resource Provider's* side of the *connection point* and is necessary for the *integrated resource system* to meet its *performance standards*.
- (d) For the purposes of the *Rules* (except rules 2.1A and 2.1B and except as otherwise provided in the *Rules*) a *bidirectional unit* that has been classified as a *scheduled generating unit* as provided for in clause 2.2.2(b2) is taken to be a *generating unit* (and not a *bidirectional unit*) under paragraph (a) of this definition.

**Note:**

In relation to paragraph (d), refer to the note to *bidirectional unit*.

***market ancillary service bid***

A notice submitted by an *Ancillary Service Provider* to *AEMO* in respect of a *market ancillary service* in accordance with clause 3.8.7A.

***market bidirectional unit***

A *bidirectional unit* that has been classified as such in accordance with Chapter 2.

***micro resource operator***

A *small customer*, *large customer* or *SRA customer* who operates, or proposes to operate, a *distribution connected unit* for which a *micro DER connection* is appropriate.

***minimum ramp rate***

For a *scheduled resource*, the amount determined in accordance with clause 3.8.3A(b)(1).

***minimum ramp rate requirement***

In relation to:

- (a) a *generating unit* means the lower of 3 MW/minute or 3% of the maximum *generation* provided in accordance with clause 3.13.3(b);
- (b) a *bidirectional unit*, means in respect of *generation*, the lower of 3 MW/minute or 3% of the maximum *generation* provided in accordance with clause 3.13.3(b) and in respect of consumption means the lower of 3 MW/minute or 3% of the maximum consumption provided in accordance with clause 3.13.3(b),
- (c) a *scheduled load*, means the lower of 3 MW/minute or 3% of the maximum consumption provided in accordance with clause 3.13.3(b);  
or
- (d) a *scheduled network service*, means 3 MW/minute,  
expressed as MW/minute rounded down to the nearest whole number except where this would result in the nearest whole number being zero, in which case the *minimum ramp rate requirement* is 1 MW/minute.

***negotiated augmentation and extension charges***

The charges described in clause 5.3AA(f)(3).

***network dispatch bid***

A notice submitted by a *Scheduled Network Service Provider* to *AEMO* relating to the *dispatch* of a *scheduled network service* in accordance with clause 3.8.6A.

***non-market bidirectional unit***

A *bidirectional unit* which has been classified as such in accordance with Chapter 2.

***Non-Market Integrated Resource Provider***

An *Integrated Resource Provider* who has classified a *bidirectional unit* as a *non-market bidirectional unit* in accordance with Chapter 2.

***Non-Scheduled Integrated Resource Provider***

An *Integrated Resource Provider* in relation to any *bidirectional unit* it has classified as a *non-scheduled bidirectional unit* in accordance with Chapter 2.

***non-scheduled integrated resource system***

An *integrated resource system* that, to the extent it is comprised of *production units*, is comprised of *non-scheduled bidirectional units*, or *non-scheduled bidirectional units* and *non-scheduled generating units*.

***non-scheduled bidirectional unit***

A *bidirectional unit* classified as such in accordance with Chapter 2.

***production unit***

*Plant* used in the production of electricity and all related equipment essential to its functioning as a single entity.

**Note**

*Generating units* and *bidirectional units* are *production units*.

***rated maximum demand***

- (a) In relation to a *bidirectional unit*, the maximum amount of *active power* that the *plant* can continuously consume at the *connection point* when operating at its *nameplate rating*.
- (b) In relation to an *integrated resource system*, the combined maximum amount of *active power* that its in-service *bidirectional units* can consume at the *connection point*, when its in-service *bidirectional units* are operating at their *nameplate ratings*.

***scheduled bidirectional unit***

- (a) A *bidirectional unit* that has been classified as such in accordance with Chapter 2.
- (b) For the purposes of Chapter 3 (except clause 3.8.3A(b)(1)(iv)) and rule 4.9, two or more *bidirectional units* referred to in paragraph (a) that have been aggregated in accordance with clause 3.8.3.

***Scheduled Integrated Resource Provider***

An *Integrated Resource Provider* in relation to any *bidirectional unit* it has classified as a *scheduled bidirectional unit* in accordance with Chapter 2.

***scheduled integrated resource system***

An *integrated resource system* that, to the extent it is comprised of *production units*, is comprised of *scheduled bidirectional units* or a combination of *scheduled bidirectional units* and other *plant*.

***scheduled resource***

According to context:

- (a) a *scheduled generating unit*, a *semi-scheduled generating unit*, a *scheduled bidirectional unit*, a *wholesale demand response unit*, a *scheduled network service* or a *scheduled load*; or
- (b) in respect of a *Registered Participant*, a *scheduled generating unit*, a *semi-scheduled generating unit*, a *scheduled bidirectional unit*, a *wholesale demand response unit*, a *scheduled network service* or a *scheduled load* classified by or in respect to that *Registered Participant* in accordance with Chapter 2.

***small bidirectional unit***

A *bidirectional unit*:

- (a) with a *nameplate rating* that is less than 5 MW; and
- (b) that is incorporated in an *integrated resource system* in relation to which *AEMO* has given an exemption under clause 2.1A.2 from the requirement to register as an *Integrated Resource Provider*.

***Small Resource Aggregator***

An *Integrated Resource Provider* who has classified a *small resource connection point* as one of its *market connection points* in accordance with clause 2.2.8.

***small resource connection point***

A *connection point* that *connects* one or more *small generating units* or *small bidirectional units* (or any combination) to the *national grid*, where the only *supply* to the *connection point* is:

- (a) for use by a *small bidirectional unit* connected at the *connection point*;  
or
- (b) *auxiliary load* of a *small generating unit* or *small bidirectional unit* connected at the *connection point*.

***SRA customer***

Has the meaning given in clause 5A.A.1.

***synchronous bidirectional unit***

A *bidirectional unit* that is a *synchronous production unit*.

***synchronous production unit***

A *production unit* comprising alternating current generators which operate at a speed which is synchronised to the *frequency* of the *power system*.



***system strength production unit***

A *production unit* registered with *AEMO* under clause 5.20C.4(b).

**[2] Chapter 10 Substituted definitions**

In Chapter 10, omit and substitute the following definitions in alphabetical order:

***adjusted gross energy***

The *adjusted gross energy* determined in accordance with clause 3.15.4.

***AEMO intervention event***

An event where *AEMO* intervenes in the *market* under the *Rules* by:

- (a) issuing a *direction* in accordance with clause 4.8.9; or
- (b) exercising the *reliability and emergency reserve trader* in accordance with rule 3.20 by:
  - (1) *dispatching scheduled generating units, scheduled bidirectional units, wholesale demand response units, scheduled network services or scheduled loads* in accordance with a *scheduled reserve contract*; or
  - (2) *activating unscheduled reserves* available under an *unscheduled reserve contract*.

***Affected Participant***

A person who satisfies any of paragraphs (a) to (d), to the extent provided for in the paragraph:

- (a) In respect of a particular *direction* in an *intervention price trading interval*, a *Scheduled Generator* in respect of its *scheduled generating unit*, an *Integrated Resource Provider* in respect of its *scheduled generating unit* or its *scheduled bidirectional unit* or a *Scheduled Network Service Provider* in respect of its *scheduled network service*, where:
  - (1) the *scheduled generating unit, scheduled bidirectional unit or scheduled network service* was not the subject of the *direction*; and
  - (2) the *dispatched generation* quantity of the *scheduled generating unit or scheduled bidirectional unit*, or the *dispatched network service* quantity of the *scheduled network service* (as applicable) was affected by that *direction*,

but to avoid doubt, if the *Scheduled Generator, Scheduled Integrated Resource Provider or Scheduled Network Service Provider* was given

the *direction*, it is only an *Affected Participant* in respect of those *scheduled generating units, scheduled bidirectional units or scheduled network services* that satisfy subparagraphs (a)(1) and (a)(2).

- (b) In respect of a particular *direction* in an *intervention price trading interval*, an *eligible person* entitled to receive an amount from *AEMO* pursuant to clause 3.18.1(b)(1) where there has been a change in flow of a *directional interconnector*, for which the *eligible person* holds units for the *intervention price trading interval*, as a result of the *direction*.
- (c) In relation to the exercise of the *RERT* under rule 3.20, a *Scheduled Generator* in respect of its *scheduled generating unit*, an *Integrated Resource Provider* in respect of its *scheduled generating unit* or its *scheduled bidirectional unit* or a *Scheduled Network Service Provider* in respect of its *scheduled network service*, where:
  - (1) the *scheduled generating unit, scheduled bidirectional unit or scheduled network service* was not *dispatched* under a *scheduled reserve contract* and the *dispatched generation quantity of the scheduled generating unit or scheduled bidirectional unit or the dispatched network service quantity of the scheduled network service* (as applicable) was affected by the *dispatch* of other *scheduled reserves* under a *scheduled reserve contract*; or
  - (2) the *dispatched generation quantity of the scheduled generating unit or scheduled bidirectional unit or the dispatched network service quantity of the scheduled network service* (as applicable) was affected by the *activation* of *unscheduled reserves* available under an *unscheduled reserve contract*.
- (d) In relation to the exercise of the *RERT* under rule 3.20, an *eligible person* entitled to receive an amount from *AEMO* pursuant to clause 3.18.1(b)(1) where there has been a change in flow of a *directional interconnector*, for which the *eligible person* holds units for the *intervention price trading interval*, as a result of the *dispatch* of *scheduled reserves* under a *scheduled reserve contract* or the *activation* of *unscheduled reserves* available under an *unscheduled reserve contract*.

### ***Ancillary Service Provider***

A person who has, in accordance with Chapter 2, classified a *generating unit, bidirectional unit* or other *connected plant* as an *ancillary service unit*.

### ***black start capability***

A capability that allows a *production unit, facility* or a combination of *facilities* following *disconnection* from the *power system*, to be able to deliver electricity to either:

- (a) a *connection point*; or
- (b) a suitable point in the *network* from which *supply* can be made available to other *production units*,  
without taking *supply* from any part of the *power system* following *disconnection*.

***central dispatch***

The process managed by *AEMO* for the *dispatch* of *scheduled resources* and *market ancillary services* in accordance with rule 3.8.

***connection service***

An *entry service* (being a service provided to serve a *Generator* or *Integrated Resource Provider* or a group of *Generators* or *Integrated Resource Providers*, or a *Network Service Provider* or a group of *Network Service Providers*, at the same *connection point*) or an *exit service* (being a service provided to serve a *Transmission Customer* or *Distribution Customer* or a group of *Transmission Customers* or *Distribution Customers*, or a *Network Service Provider* or a group of *Network Service Providers*, at the same *connection point*).

**Note:**

In the context of Chapter 5A and Part DA of Chapter 6, the above definition has been displaced by a definition specifically applicable to that Chapter. See clause 5A.A.1.

***constrained off***

In respect of a *production unit*, the state where, due to a *constraint* on a *network*, the *loading level* of that *production unit* is limited below the level to which it would otherwise have been *dispatched* by *AEMO* on the basis of its *dispatch bid*.

***constrained on***

- (a) In respect of a *production unit*, the state where, due to a *constraint* on a *network* or in order to provide *inertia network services* under an *inertia services agreement* or *system strength services* under a *system strength services agreement*, the *loading level* of that *production unit* is limited above the level to which it would otherwise have been *dispatched* by *AEMO* on the basis of its *dispatch bid*.
- (b) In respect of a *wholesale demand response unit*, the state where, due to a *constraint* on a *network*, the *loading level* of that *wholesale demand response unit* is limited above the level to which it would otherwise have been *dispatched* by *AEMO* on the basis of its *dispatch bid*.

***Customer***

A person who classifies one or more *connection points* as *market connection points* under Chapter 2 and is registered by *AEMO* as a *Customer* under Chapter 2.

***Demand Response Service Provider***

A person who has classified either or both:

- (a) a *connection point* as a *wholesale demand response unit*; and
- (b) *connected plant* as an *ancillary service unit*,

and who is registered by *AEMO* as a *Demand Response Service Provider* under Chapter 2. The relevant person does not need to be the *Market Customer* for the relevant *connection point*.

***Directed Participant***

A *Market Participant* the subject of a *direction*.

***dispatch***

The act of initiating or enabling all or part of the response specified in a *dispatch bid* or *market ancillary service bid* in accordance with rule 3.8, or a *direction* or operation of capacity the subject of a *reserve contract* or an instruction under an *ancillary services agreement* or to *enable* an *inertia network service* or *system strength service* as appropriate.

***dispatch bid***

A notice submitted by a *Market Participant* to *AEMO* relating to the *dispatch* of a *scheduled resource* in accordance with clause 3.8.6, 3.8.6A or 3.8.7 or a *wholesale demand response dispatch bid*.

***dispatch inflexibility profile***

Data which may be provided to *AEMO* by *Market Participants*, in accordance with clause 3.8.19, to specify *dispatch inflexibilities* in respect of *scheduled resources*.

***dispatchable unit identifier***

A unique reference label allocated by *AEMO* for each *scheduled resource* and *ancillary service unit*.

***distribution network user access***

The *power transfer capability* of the *distribution network* in respect of:

- (a) *generating units* or a group of *generating units*;
- (b) *network elements*; and

- (c) *bidirectional units* or a group of *bidirectional units*,  
at a *connection point* which has been negotiated in accordance with rule 5.3AA.

***distribution service end user***

An *electricity consumer*, *micro resource operator* or *non-registered DER provider* (other than a *non-registered DER provider* who has made an election under clause 5A.A.2(c) for *connection* under Chapter 5).

***energy constrained scheduled generating unit***

A *scheduled generating unit* in respect of which the amount of electricity it is capable of producing on a *trading day* is less than the amount of electricity it would produce on that *trading day* if it were *dispatched* to its full nominated availability for the whole *trading day*.

***energy constraint***

A limitation on the ability of a *production unit* or group of *production units* to generate *active power* due to the restrictions in the availability of fuel, stored energy or other necessary expendable resources such as, but not limited to, gas, coal, or water for operating turbines or for cooling.

***entry service***

A service provided to serve a *Generator* or *Integrated Resource Provider* or a group of *Generators* or *Integrated Resource Providers*, or a *Network Service Provider* or a group of *Network Service Providers*, at the same *connection point*.

***excitation control system***

In relation to a *production unit*, the automatic *control system* that provides the field excitation for the generator of the *production unit* (including excitation limiting devices and any *power system stabiliser*).

***financially responsible***

In relation to a *market connection point*, a term which is used to describe the *Market Participant* which has done one of the following:

- (a) classified the *market connection point* as one of its *market connection points*;
- (b) classified a *generating unit connected* at the *market connection point* as a *market generating unit*;
- (c) classified a *bidirectional unit connected* at the *market connection point* as a *market bidirectional unit*; or

- (d) classified the *network services* at the *market connection point* as a *market network service*.

***generated***

In relation to a *production unit*, the amount of electricity produced by the *production unit* as measured at its terminals.

***generating system***

- (a) Subject to paragraph (b), for the purposes of the *Rules*, a system comprising one or more *generating units*, other than an *integrated resource system*.
- (b) For the purposes of clause 2.1B.1(c), clause 2.1B.2(b)(4), clause 4.9.2, Chapter 5 and a *jurisdictional derogation* from Chapter 5, a system comprising one or more *generating units*, other than an *integrated resource system*, and includes auxiliary or *reactive plant* that is located on the *Generator's* side of the *connection point* and is necessary for the *generating system* to meet its *performance standards*.
- (c) For the purposes of the *Rules* (except rules 2.1A, 2.1B and 2.2 and except as otherwise provided under the *Rules*), a reference to a *generating unit* in paragraph (a) or (b) of this definition is taken to include a *bidirectional unit* that has been classified as a *scheduled generating unit* as provided for in clause 2.2.2(b2).

**Note**

In relation to paragraph (c), refer to the note to *bidirectional unit*.

***generating unit***

- (a) Subject to paragraph (b), a *production unit* that is not a *bidirectional unit*.
- (b) A *bidirectional unit* within the meaning of paragraph (a) of the definition of *bidirectional unit*, that has been classified as a *scheduled generating unit* under clause 2.2.2(b2), is taken for the purposes of the *Rules* (except rules 2.1A and 2.1B and clauses 2.2.2(a) to (b4) and except as otherwise provided in the *Rules*) to be a *generating unit* (and not a *bidirectional unit*).

**Note**

In relation to paragraph (b), refer to the note to *bidirectional unit*.

***generation***

According to context:

- (a) The production of electrical power by converting another form of energy in *production unit*.



- (b) The amount of electrical power (measured in MW) produced by a *production unit* and measured at its terminals.
- (c) The amount of electrical power (measured in MW) at a defined instant at a *connection point*, or aggregated over a defined set of *connection points*.

### **Generator**

A person who engages in the activity of owning, controlling or operating a *generating system* that is *connected* to, or who otherwise *supplies* electricity to, a *transmission system* or *distribution system* and who is registered by *AEMO* under Chapter 2 as a *Generator* or as an *Integrated Resource Provider*.

For the purposes of Chapter 5, the term includes a person who is required or intends to register in that capacity or a *non-registered DER provider* who has made an election under clause 5A.A.2(c).

### **Generator transmission use of system, Generator transmission use of system service**

A service provided to a *Generator* or (in relation to its production of electricity) an *Integrated Resource Provider* for:

- (a) **[Deleted]**;
- (b) use of a *transmission investment* for the conveyance of electricity that can be reasonably allocated to a *Generator* or (in relation to its production of electricity) an *Integrated Resource Provider* on a locational basis.

### **inflexible, inflexibility**

In respect of a *scheduled resource* for a *trading interval* means that the *scheduled resource* is only able to be *dispatched* in the *trading interval* at a fixed *loading level* specified in accordance with clause 3.8.19(a).

### **intermittent**

A description of a *production unit* whose output is not readily predictable, including, without limitation, solar generators, wave turbine generators, wind turbine generators and hydro-generators without any material storage capability relative to the size of the hydro-generator.

### **inverter based resource**

Any of the following, alone or in combination:

- (a) *asynchronous generating unit*;
- (b) *asynchronous bidirectional unit*; and
- (c) *inverter based load*.



**load**

According to context:

- (a) the amount of electrical power (in MW) *supplied* from a *network* at a defined instant to a *connection point*, or aggregated over a defined set of *connection points*; or
- (b) a *connection point* or defined set of *connection points* at which electrical power is delivered to a person or to another *network*.

**market connection point**

A *connection point*:

- (a) classified in accordance with Chapter 2 as a *market connection point*;
- (b) which connects any *market generating unit* to the *national grid*;
- (c) which connects any *market bidirectional unit* to the *national grid*; or
- (d) where the *network service connected* at that *connection point* is a *market network service*.

**Market Customer**

A *Customer* in relation to the *connection points* it has classified as *market connection points* under Chapter 2.

An *Integrated Resource Provider* in relation to the *connection points* it has classified as *market connection points* under clause 2.3.4(b).

**market generating unit**

A *generating unit* that has been classified as such in accordance with Chapter 2.

**Market Generator**

A *Generator* or *Integrated Resource Provider* in relation to *generating units* it has classified as *market generating units* in accordance with Chapter 2.

**market load**

A *market connection point* other than a *connection point* taken to be a *market connection point* of a *Market Participant* under clause 2.3.4(a).

**Note**

This term is used in the *National Electricity (South Australia) Regulations*.

***Market Participant***

*A Market Generator, Integrated Resource Provider (other than a Non-Market Integrated Resource Provider), Market Customer, Demand Response Service Provider or Market Network Service Provider.*

***Market Suspension Compensation Claimant***

- (a) *A Scheduled Generator, Scheduled Integrated Resource Provider or a Demand Response Service Provider who supplied energy or wholesale demand response during a market suspension pricing schedule period:*
  - (1) *in a suspended region; or*
  - (2) *in a region where spot prices were affected in accordance with clause 3.14.5(f); or*
- (b) *an Ancillary Service Provider in a suspended region, in respect of an ancillary service unit which is also a scheduled resource, who provided market ancillary services during a market suspension pricing schedule period.*

***nameplate rating***

The maximum continuous output or consumption in MW of an item of equipment as specified by the manufacturer, or as subsequently modified.

In relation to *bidirectional units*, for the purposes of the *Rules* the *nameplate rating* is measured separately for output and consumption and a *nameplate rating* threshold in the *Rules* will be met or exceeded by:

- (a) *a bidirectional unit, if it is met or exceeded with respect to either output or consumption of the bidirectional unit (or both); and*
- (b) *a group of bidirectional units, if it is met or exceeded with respect to either the combined nameplate rating of the bidirectional units for output or the combined nameplate rating of the bidirectional units for consumption (or both).*

***Non-Registered Customer***

*Any person who purchases electricity through a connection point with the national grid other than from the spot market.*

***Non-Scheduled Generator***

*A Generator or Integrated Resource Provider in relation to any generating unit it has classified as a non-scheduled generating unit in accordance with Chapter 2.*

***non-scheduled load***

Any source of *load* not classified as *scheduled load*.

***power station***

- (a) In relation to a *Generator*, a *facility* in which any of that *Generator's* *generating units* are located.
- (b) In relation to an *Integrated Resource Provider*, a *facility* in which any of that *Integrated Resource Provider's* *production units* are located.

***price band***

A MW quantity specified in a *dispatch bid* or *market ancillary service bid* as being available for *dispatch* at a specified price.

***rated active power***

- (a) In relation to a *production unit*, the maximum amount of *active power* that the *production unit* can continuously deliver at the *connection point* when operating at its *nameplate rating*;
- (b) In relation to a *generating system* or *integrated resource system*, the combined maximum amount of *active power* that its in-service *production units* can deliver at the *connection point*, when its in-service *production units* are operating at their *nameplate ratings*.

***response breakpoint***

- (a) In relation to a *market ancillary service bid* to raise the *frequency* of the *power system*, the level of associated *generation* or consumption (in MW) above which the amount of response specified in the bid reduces with increased *generation* or consumption level; and
- (b) In relation to a *market ancillary service bid* to lower the *frequency* of the *power system*, the level of associated *generation* or consumption (in MW) below which the amount of response specified in the bid reduces with decreased *generation* or consumption level.

***response capability***

- (a) In relation to a *market ancillary service bid* to raise the *frequency* of the *power system*, the amount of the response in (MW) which is specified in the bid for every level of associated *generation* or consumption below the associated *response breakpoint*; and
- (b) In relation to a *market ancillary service bid* to lower the *frequency* of the *power system*, the amount of the response in (MW) which is specified in the bid for every level of associated *generation* or consumption above the associated *response breakpoint*.

***retail customer***

A person who is one or more of the following:

- (a) a *small customer*;
- (b) a *large customer*;
- (c) a *micro resource operator*; or
- (d) a *non-registered DER provider*, other than a *non-registered DER provider* who has made an election under clause 5A.A.2(c) for *connection* under Chapter 5.

***Scheduled Generator***

A *Generator* or *Integrated Resource Provider* in relation to any *generating unit* it has classified as a *scheduled generating unit* in accordance with Chapter 2.

***Semi-Scheduled Generator***

A *Generator* or *Integrated Resource Provider* in respect of which any *generating unit* or *bidirectional unit* that is a *coupled production unit* is classified as a *semi-scheduled generating unit* in accordance with Chapter 2.

***supplementary carbon dioxide equivalent intensity indicator***

Any indicators relating to a subset of *scheduled generating units*, *market generating units*, *scheduled bidirectional units* and *market bidirectional units* published by *AEMO* in accordance with clause 3.13.14(h).

***synchronous generating unit***

A *generating unit* that is a *synchronous production unit*.

***synchronous generator voltage control***

The automatic *voltage control system* of a *production unit* which changes the output *voltage* of the *production unit* through the adjustment of the generator rotor current and effectively changes the *reactive power* level from that *production unit*.

***system strength impact assessment***

*Power system* studies to assess the *general system strength impact* of a *connection* or alteration to a *generating system*, *integrated resource system* or other *connected plant*.

***tap-changing transformer***

A *transformer* with the capability to allow internal adjustment of output *voltages* which can be automatically or manually initiated and which is used as a major component in the control of the *voltage* of *transmission* and *distribution networks* in conjunction with the operation of *reactive plant*. The *connection point* of a *production unit* may have an associated tap-changing transformer, usually provided by the *Generator* or *Integrated Resource Provider*.

***Transmission Customer***

Each of the following:

- (a) a *Customer*;
  - (b) a *Market Customer*;
  - (c) a *Non-Registered Customer*;
  - (d) an *Integrated Resource Provider* in relation to *supply* from a *transmission network* to an *integrated resource system*; and
  - (e) a *Distribution Network Service Provider*,
- having a *connection point* with a *transmission network*.

**[3] Chapter 10 Glossary**

In the definition of "***activate***", after "*generating unit* (other than a *scheduled generating unit*)" insert "or a *bidirectional unit* (other than a *scheduled bidirectional unit*)".

**[4] Chapter 10 Glossary**

In the definition of "***active power capability***", after "a *generating unit*" insert "or a *bidirectional unit*".

**[5] Chapter 10 Glossary**

In the definition of "***adverse system strength impact***", in paragraph (b), after "*generating system*" insert ", *integrated resource system*,".

**[6] Chapter 10 Glossary**

In the definition of "***AGC (automatic generation control system)***", omit "operating on automatic generation control in accordance with clause 3.8.21(d)" and substitute "and *scheduled bidirectional units* operating on automatic generation control".

**[7] Chapter 10 Glossary**

In the definition of "***available capacity***", after ", *semi-scheduled generating unit*" insert ", *scheduled bidirectional unit*".

**[8] Chapter 10 Glossary**

In the definition of "*billed but unpaid charges*", omit all references to "*failed Market Small Generation Aggregator*" and substitute "*failed Small Resource Aggregator*".

**[9] Chapter 10 Glossary**

In the definition of "*capacity reserve*", after "by the relevant *Generators*" insert "and *Integrated Resource Providers*".

**[10] Chapter 10 Glossary**

In the definition of "*child connection point*", omit "*generating unit*" and substitute "*production unit*".

**[11] Chapter 10 Glossary**

In the definition of "*constraint, constrained*", after "a *generating unit*" insert ", a *bidirectional unit*".

**[12] Chapter 10 Glossary**

In the definition of "*continuous uninterrupted operation*", omit the first paragraph and substitute:

In respect of a *generating system, generating unit, integrated resource system* or *bidirectional unit* operating immediately prior to a *power system* disturbance:

**[13] Chapter 10 Glossary**

In the definition of "*control system*", omit "*generating units*" and substitute "*production units*".

**[14] Chapter 10 Glossary**

In the definition of "*dedicated connection asset*", in paragraph (d)(2), after "part of a *generating system*" insert "or *integrated resource system*".

**[15] Chapter 10 Glossary**

In the definition of "*DER generation information*", after "a *small generating unit*" insert "or *small bidirectional unit*".

**[16] Chapter 10 Glossary**

In the definition of "*DER Technical Standards*", omit "*embedded generating units*" and substitute "*distribution connected units*".

**[17] Chapter 10            Glossary**

In the definition of "*de-synchronising / de-synchronisation*", omit "*generating unit*" and substitute "*production unit*".

**[18] Chapter 10            Glossary**

In the definition of "*dispatch bid price*", after "The price submitted" insert "by a *Market Participant*".

**[19] Chapter 10            Glossary**

In the definition of "*dispatched load*", after "*dispatched wholesale demand response*" insert "or in relation to a *bidirectional unit, dispatched generation*".

**[20] Chapter 10            Glossary**

In the definition of "*Distribution Network User*", after "A *Distribution Customer*" insert "or a *Distribution Connected Resource Provider*".

**[21] Chapter 10            Glossary**

In the definition of "*enable*", omit "*generating unit or load*" and substitute "*ancillary service unit*".

**[22] Chapter 10            Glossary**

In the definition of "*enablement limit*", omit "*market ancillary service offer, the level of associated generation or load*" and substitute "*market ancillary service bid, the level of associated generation or consumption*".

**[23] Chapter 10            Glossary**

In the definition of "*energise*", omit "*generating unit*" and substitute "*production unit*".

**[24] Chapter 10            Glossary**

In the definition of "*energy constrained scheduled load*", omit "can take" and substitute "is capable of consuming".

**[25] Chapter 10            Glossary**

In the definition of "*energy support arrangement*", after "between a *Generator*" insert ", *Integrated Resource Provider*".

**[26] Chapter 10            Glossary**

In the definition of "*expected closure year*", omit "clause 2.2.1(e)(2A)" and substitute "clause 2.1B.3(a)".



**[27] Chapter 10 Glossary**

In the definition of "*export tariff*", omit "*embedded generating units*" and substitute "*distribution connected units*".

**[28] Chapter 10 Glossary**

In the definition of "*facilities*", omit paragraph (a) and substitute:

- (a) a *power station, generating system or integrated resource system*;

**[29] Chapter 10 Glossary**

In the definition of "*frequency response mode*", omit "*generating unit*" and substitute "*production unit*".

**[30] Chapter 10 Glossary**

In the definition of "*GELF parameters*", after "*Scheduled Generator*" insert "*or Scheduled Integrated Resource Provider*".

**[31] Chapter 10 Glossary**

In the definition of "*general system strength impact*", after "*alteration to a generating system*", insert "*, integrated resource system*".

**[32] Chapter 10 Glossary**

In the definition of "*generation centre*", omit "*a generating unit or generating units*" and substitute "*facilities*".

**[33] Chapter 10 Glossary**

In the definition of "*generation shedding*", omit "*generating systems or generating units*" and substitute "*sources of generation*".

**[34] Chapter 10 Glossary**

In the definition of "*Generator Energy Limitation Framework (GELF)*", after "*a scheduled generating unit*" insert "*or scheduled bidirectional unit*".

**[35] Chapter 10 Glossary**

In the definition of "*inertia*", after "*from a generating unit*" insert "*, bidirectional unit,*".

**[36] Chapter 10 Glossary**

In the definition of "*intermediary*", after "*AEMO as a Generator*" insert "*, Integrated Resource Provider*".

**[37] Chapter 10 Glossary**

in the definition of "*inverter based load*", omit "A load" and substitute "Plant (other than a *production unit*)".

**[38] Chapter 10 Glossary**

In the definition of "*key connection information*", in paragraph (b), after "(e.g. gas turbine *generating unit*)" insert "or *bidirectional unit*".

**[39] Chapter 10 Glossary**

In the definition of "*key connection information*", in paragraph (f), after "relevant *generating unit*" insert "or *bidirectional unit*".

**[40] Chapter 10 Glossary**

In the definition of "*loading level*", after "of a *generating unit*" insert ", *bidirectional unit*".

**[41] Chapter 10 Glossary**

In the definition of "*loading price*", omit "*dispatch offer*" and substitute "*dispatch bid*".

**[42] Chapter 10 Glossary**

In the definition of "*market suspension pricing schedule period*", in subparagraph (a)(1), after "for *Scheduled Generators*" insert "and *Integrated Resource Providers*".

**[43] Chapter 10 Glossary**

In the definition of "*market suspension pricing schedule period*", in subparagraph (a)(2), omit "*ancillary service generating unit*" and substitute "*ancillary service unit*".

**[44] Chapter 10 Glossary**

In the definition title of "*micro EG connection*", omit "*EG*" and substitute "*DER*".

**[45] Chapter 10 Glossary**

In the definition of "*network support payment*", in subparagraph (a)(1), after "any *Generator*" insert "or *Integrated Resource Provider*".

**[46] Chapter 10 Glossary**

In the definition of "*Network User*", after "A *Generator*" insert ", an *Integrated Resource Provider*".

**[47] Chapter 10 Glossary**

Omit the definition of "*non-registered embedded generator*" and substitute:

***non-registered DER provider***

*A distribution connected unit operator that is neither a micro resource operator nor a Registered Participant.*

**[48] Chapter 10            Glossary**

In the definition of "***non-market generating unit***", omit "whose entire output is consumed by a *market load* located at the same *connection point* and".

**[49] Chapter 10            Glossary**

In the definition of "***Non-Market Generator***", after "A *Generator*" insert "or *Integrated Resource Provider*".

**[50] Chapter 10            Glossary**

In the definition of "***Non-Scheduled Generator***", omit "A *Generator* in respect of which any *generating unit* is" and substitute "A *Generator* or *Integrated Resource Provider* in relation to any *generating unit* it has".

**[51] Chapter 10            Glossary**

In the definition of "***off-loading price***", omit "*dispatch offer*" and substitute "*dispatch bid*".

**[52] Chapter 10            Glossary**

In the definition of "***PASA availability***", after "a *scheduled generating unit*," insert "*scheduled bidirectional unit*".

**[53] Chapter 10            Glossary**

In the definition of "***performance standards commencement date***", in paragraph (a), after "*Generators*" insert ", *Integrated Resource Providers*".

**[54] Chapter 10            Glossary**

In the definition of "***performance standards commencement date***", in paragraph (b), after "*Generators*" insert ", *Integrated Resource Providers*".

**[55] Chapter 10            Glossary**

In the definition of "***planned network event***", in paragraph (b), after "*disconnection of generating units*" insert ", *bidirectional units* or sources of".

**[56] Chapter 10            Glossary**

In the definition of "***plant***", in paragraph (a), omit "utilizing" and substitute "consuming".

**[57] Chapter 10            Glossary**

In the definition of "*plant*", omit paragraph (b) and substitute:

- (b) In relation to *dispatch bids, scheduled resources*.

**[58] Chapter 10            Glossary**

In the definition of "*plant*", in paragraph (c), after "individually controllable generating" insert "and bidirectional".

**[59] Chapter 10            Glossary**

In the definition of "*plant*", after paragraph (g) insert:

- (h) In relation to a *market ancillary service*, includes all equipment involved in providing the *market ancillary service*.

**[60] Chapter 10            Glossary**

In the definition of "*plant availability*", omit "a *generating unit*" and substitute "a *production unit*".

**[61] Chapter 10            Glossary**

In the definition of "*reactive power capability*", omit "a *generating unit*" and substitute "a *production unit*".

**[62] Chapter 10            Glossary**

In the definition of "*rebid*", omit "or offer".

**[63] Chapter 10            Glossary**

In the definition of "*Referred Participant*", after "Affected Participant" insert ", *Affected Load Customer*".

**[64] Chapter 10            Glossary**

In the definition of "*Registered Participant*", in the opening paragraph, omit "rules 2.2 to 2.7" and substitute "rules 2.1A to 2.7".

**[65] Chapter 10            Glossary**

In the definition of "*regulating duty*", after "a *generating unit*" insert "or *bidirectional unit*".

**[66] Chapter 10            Glossary**

In the definition of "*releasable user guide*", in paragraph (5), after "*generating system*" insert ", *bidirectional unit, integrated resource system*".

## [67] Chapter 10 Glossary

In the definition of "*releasable user guide*", omit paragraph (7) and substitute:

- (7) in regards to any relevant *generating unit*, *bidirectional unit*, *generating system* or *integrated resource system*, the date on which any of the following has occurred or is expected to occur:
  - (i) an *application to connect* is made under clause 5.3.4(a);
  - (ii) a *connection agreement* is entered into under clause 5.3.7;
  - (iii) the *Generator* or *Integrated Resource Provider* submits a proposal to alter a *connected generating system* or a *generating system*, or a *connected integrated resource system* or *integrated resource system*, for which *performance standards* have previously been accepted by *AEMO*, under clause 5.3.9;
  - (iv) the *Generator* or *Integrated Resource Provider* is notified that the *Network Service Provider* and *AEMO* are satisfied with the proposed alterations to the *generating plant* or other *plant* under clause 5.3.10;
  - (v) *connection*;
  - (vi) commencement of commissioning; and
  - (vii) conclusion of commissioning; and

## [68] Chapter 10 Glossary

In the definition of "*retailer insolvency costs*", in paragraph (b), omit "*failed Market Small Generation Aggregator*" and substitute "*failed Small Resource Aggregator*".

## [69] Chapter 10 Glossary

In the definition of "*retailer insolvency event*", omit all references to "*Market Small Generation Aggregator*" and substitute "*Small Resource Aggregator*".

## [70] Chapter 10 Glossary

In the definition of "*scheduled load*", omit paragraph (a) and substitute:

- (a) *Plant* which has been classified by *AEMO* in accordance with Chapter 2 as a *scheduled load*.

## [71] Chapter 10 Glossary

In the definition of "*scheduled reserve*", after paragraph (a), insert:

- (a1) of *scheduled bidirectional units*;

**[72] Chapter 10            Glossary**

In the definition of "*self-dispatch level*", omit "*dispatch offer*" and substitute "*dispatch bid*".

**[73] Chapter 10            Glossary**

In the definition of "*sent out generation*", omit "*generating unit*" and substitute "*production unit*".

**[74] Chapter 10            Glossary**

In the definition of "*short circuit ratio*", omit paragraphs (b) to (d) and substitute:

- (b) in the case of a *market network service facility*, its *rated power transfer capability* (expressed in MW);
- (c) in the case of an *inverter based load*, its *maximum demand* at the *connection point* (expressed in MW); and
- (d) in the case of an *integrated resource system*, its *rated active power* (expressed in MW).

**[75] Chapter 10            Glossary**

In the definition of "*small generating unit*", omit paragraph (b) and substitute:

- (b) that is incorporated in a *generating system* or an *integrated resource system* in relation to which *AEMO* has given an exemption under clause 2.1A.2 from the requirement to register as a *Generator* or *Integrated Resource Provider*.

**[76] Chapter 10            Glossary**

In the definition of "*SRAS (system restart ancillary service)*", omit "*generating units*" and substitute "*production units*".

**[77] Chapter 10            Glossary**

In the definition of "*statement of opportunities*", omit "*Scheduled Generators, Semi Scheduled Generators*".

**[78] Chapter 10            Glossary**

In the definition of "*supply scarcity mechanism*", omit paragraph (a) and substitute:

- (a) exercising the *RERT* in accordance with rule 3.20 by:
  - (1) *dispatching scheduled resources* in accordance with any *scheduled reserve contract*; or
  - (2) *activating unscheduled reserves* under any *unscheduled reserve contract*;

**[79] Chapter 10            Glossary**

In the definition of "*switchyard*", omit all references to "*generating unit*" and substitute "*production unit*".

**[80] Chapter 10            Glossary**

In the definition of "*synchronise*", omit "*generating unit*" and substitute "*production unit*".

**[81] Chapter 10            Glossary**

In the definition of "*synchronising*", omit "*generating units*" and substitute "*production units*".

**[82] Chapter 10            Glossary**

In the definition of "*system strength connection point*", after "*a generating system*", insert ", *integrated resource system*".

**[83] Chapter 10            Glossary**

In the definition of "*system strength connection works*", after "*a generating system*", insert ", *integrated resource system*".

**[84] Chapter 10            Glossary**

In the definition of "*Transmission Network User*", omit paragraphs (a) to (c) and substitute:

- (a) a *Generator* whose *generating unit*;
- (b) a *Network Service Provider* whose *network*; and
- (c) an *Integrated Resource Provider* whose *production unit*,

**[85] Chapter 10            Glossary**

In the definition of "*unscheduled reserve*", omit paragraph (a) and substitute:

- (a) of *generating units* (other than *scheduled generating units*);
- (a1) of *bidirectional units* (other than *scheduled bidirectional units*); or

**[86] Chapter 10            Glossary**

In the definition of "*very fast lower service*", omit "*load*" and substitute "*consumption*".

**[87] Chapter 10            Glossary**

In the definition of "*very fast raise service*", omit "*load*" and substitute "*consumption*".



**[88] Chapter 10            Glossary**

In the definition of "*wholesale demand response*", omit "of the *wholesale demand response unit*".

**[89] Chapter 10            Glossary**

In the definition of "*wholesale demand response unit*", in paragraph (a), omit "load" and substitute "*connection point*".

**[90] Chapter 10            Omitted definitions**

In chapter 10, omit the following definitions:

*ancillary service generating unit*  
*ancillary service load*  
*bid and offer validation data*  
*customer energy*  
*default dispatch bid*  
*default dispatch offer*  
*dispatch offer*  
*dispatch offer price*  
*embedded generating unit operator*  
*Embedded Generator*  
*failed Market Small Generation Aggregator*  
*First-Tier Customer*  
*first-tier load*  
*generating unit minimum ramp rate requirement*  
*generation dispatch offer*  
*inertia generating unit*  
*intending load*  
*market ancillary service offer*  
*Market Small Generation Aggregator*  
*micro embedded generator*  
*MSGA customer*  
*negotiated use of system charges*  
*network dispatch offer*  
*scheduled plant*  
*Second-Tier Customer*  
*second-tier load*

***Small Generation Aggregator  
system strength generating unit***

## Schedule 7 Savings and Transitional Amendment to the National Electricity Rules

(Clause 9)

### [1] New Part ZZZZU Integrating energy storage systems into the NEM

In Chapter 11, after Part ZZZZT, insert a new Part:

#### Part ZZZZU Integrating energy storage systems into the NEM

##### 11.145 Rules consequential on the making of the National Electricity Amendment (Integrating energy storage systems into the NEM) Rule 2021

###### 11.145.1 Definitions

(a) In this rule 11.145:

**access standards commencement date** means the date of commencement of Schedule 3 of the *National Electricity Amendment (Efficient management of system strength on the power system) Rule 2021*.

**Amending Rule** means the *National Electricity Amendment (Integrating energy storage systems into the NEM) Rule 2021*.

**commencement date** means the date of commencement of Schedule 7 of the Amending Rule.

**early implementation period** means the period commencing on 31 March 2023 and ending on the effective date.

**effective date** means the date of commencement of Schedules 1 to 6 of the Amending Rule.

**existing application to connect** has the meaning given in clause 11.145.11(a)(1).

**existing connection agreement** means a *connection agreement* entered into before the effective date.

**existing connection enquiry** has the meaning given in clause 11.145.10(a)(1).

**Existing Non-Customer Load Participant** means a person who immediately before the commencement date, is the *financially responsible Market Participant* for a *scheduled load* but is not a *Market Customer* in respect of that *scheduled load*.

**Existing IRS Participant** means a *Registered Participant* who:

- (1) immediately before the commencement date, is a *Registered Participant* in respect of a transitioning generating system; or
- (2) during the transition period, becomes registered as a *Generator* (and may also become registered as a *Customer*), pursuant to an existing registration application, or due to alteration of its *plant*, in respect of a transitioning generating system, and is not a New IRS Participant.

**existing registration application** means an application for registration as a *Generator* submitted to *AEMO* under Chapter 2 before the commencement date that has not been finally determined by *AEMO* before the commencement date.

**market body** means each of *AEMO*, the *AER* and the *Reliability Panel*.

**new Chapter 2** means Chapter 2 as in force on and from the effective date.

**new Chapter 5** means Chapter 5 as in force on and from the effective date.

**new Chapter 10** means Chapter 10 as in force on and from the effective date.

**new clause 5.3.12** means clause 5.3.12 as in force on and from the date of commencement of Schedule 3 of the *National Electricity Amendment (Efficient management of system strength on the power system) Rule 2021 No. 11*.

**New IRS Participant** means a person who, during the transition period becomes registered as a *Generator* in respect of an *integrated resource system* (as defined under the new rules), either:

- (1) pursuant to a new registration application; or
- (2) pursuant to an existing registration application, where, before the person becomes registered as a *Generator* in respect of the *integrated resource system*, *AEMO* and the person agree that the person is a New IRS Participant for the purposes of this rule 11.145.

**new registration application** means an application for registration as a *Generator* submitted to *AEMO* under Chapter 2 during the transition period.

**new rule 2.9B** means rule 2.9B as in force on and from the effective date.

**new rules** means the *Rules* as in force on and from the effective date.

**old Chapter 2** means Chapter 2 as in force immediately prior to the effective date.

**old Chapter 5** means Chapter 5 as in force immediately prior to the effective date.

**old Chapter 10** means Chapter 10 as in force immediately prior to the effective date.

**old rules** means the *Rules* as in force prior to the effective date.

**registration grace period** means the period commencing on the effective date and ending 6 months after the effective date.

**transition period** means the period commencing on the commencement date and ending immediately before the effective date.

**transitioning generating system** means a *generating system* (as defined under the old rules) in relation to which there is also a *scheduled load* classification (whether for the system or a part of the system, its *connection point* or for consumption of electricity used by or in relation to the system).

- (b) Subject to paragraphs (c) and (d), italicised terms used in this rule 11.145 have the same meaning as in new Chapter 10.
- (c) The following terms used in this rule 11.145 have the same meaning as in old Chapter 10: *ancillary service generating unit, ancillary service load, Market Small Generation Aggregator, Small Generation Aggregator, market load*.
- (d) In this rule 11.145, except where otherwise provided, the terms *bidirectional unit, integrated resource system, generating unit* and *generating system* have meanings they have for the purposes of rules 2.1A, 2.1B and 2.3 of new Chapter 2.

#### **11.145.2 Transfer of registration for Existing IRS Participants and Existing Non-Customer Load Participants**

- (a) During the registration grace period, an Existing IRS Participant:
  - (1) is not required to comply with clause 2.1A.1(b) of the new rules in relation to its transitioning generating system; and
  - (2) must comply with clause 2.1A.1(a) of the new rules in relation to the transitioning generating system as if the transitioning generating system were a *generating system* (as defined under the new rules).
- (b) On and from the end of the registration grace period, an Existing IRS Participant must comply with clause 2.1A.1(b) of the new rules in relation to its transitioning generating system.

- (c) An Existing IRS Participant must, in respect of its transitioning generating system:
  - (1) no later than three months before the end of the registration grace period, apply to *AEMO* under new Chapter 2 to register as an *Integrated Resource Provider* in relation to the transitioning generating system; and
  - (2) classify each *bidirectional unit* or *generating unit* comprised in its transitioning generating system in accordance with rule 2.2 of the new rules and subject to *AEMO's* approvals as required by the new rules.
- (d) Subject to paragraph (e), an Existing Non-Customer Load Participant must, in respect of its *scheduled load*:
  - (1) no later than three months before the end of the registration grace period, apply to *AEMO* under new Chapter 2 to register as a *Customer* or as an *Integrated Resource Provider*; and
  - (2) take such other steps under new Chapter 2 as may be necessary for the *plant* comprising the *scheduled load* to be classified, no later than the end of the registration grace period, as a *scheduled load* in respect of which the Existing Non-Customer Load Participant is the *Market Customer*.
- (e) Paragraph (d) does not apply to a person who is both an Existing IRS Participant and an Existing Non-Customer Load Participant in relation to a *scheduled load*, if the person has applied in accordance with paragraph (c) to classify the *scheduled load* through its classification of its transitioning generating system.
- (f) A person who immediately before the effective date is registered with *AEMO* as a *Generator* under old Chapter 2 in relation to a *generating system* (as defined under the old rules) that is an *integrated resource system* (as defined under the new rules) and is not a transitioning generating system may:
  - (1) before the end of the registration grace period, apply to *AEMO* under new Chapter 2 to register as an *Integrated Resource Provider* in relation to its *integrated resource system*; and
  - (2) classify any *bidirectional unit* or *generating unit* comprised in its *integrated resource system* in accordance with rule 2.2 of the new rules and subject to *AEMO's* approvals as required by the new rules.
- (g) Clause 2.9 of the new rules applies to an application made in accordance with paragraph (c), (d) or (f) subject to the following:
  - (1) *AEMO* must not charge a fee for an application made in accordance with paragraph (c), (d) or (f);

- (2) clause 2.1B.2(b)(4) of the new rules does not apply to an application under paragraph (c) or (f) (such that the applicant is not required to satisfy *AEMO* under clause 2.1B(2)(b)(4) of the new rules, and *AEMO* is not required to be reasonably satisfied for the purposes of clause 2.9.2(b)(1) of the new rules, that the *integrated resource system* will be capable of meeting or exceeding its *performance standards*); and
- (3) *AEMO* is not required to be satisfied of the matters in clause 2.9.2(b)(2) or (3) of the new rules in relation to the application.
- (h) Upon registration as an *Integrated Resource Provider* in respect of an *integrated resource system* pursuant to an application made in accordance with paragraph (c) or (f):
  - (1) the relevant *Registered Participant* ceases to be registered as a *Generator*, and where applicable as a *Customer*, in relation to the relevant *integrated resource system*; and
  - (2) the approved classifications of the *bidirectional units* and *generating units* and (where applicable) other *plant* comprised in its *integrated resource system*, as provided for in accordance with paragraph (c)(2) or (f)(2) as applicable, take effect.
- (i) Registrations and applications made in accordance with paragraph (d) take effect in accordance with new Chapter 2.

### **11.145.3 Registration transition for New IRS Participants**

- (a) This clause applies to a New IRS Participant in respect of a *generating system* (as defined under the old rules) that is or will be an *integrated resource system* (as defined under the new rules).
- (b) In addition to the requirements in clause 2.2.1(e) (as in force during the transition period), to be eligible for registration as a *Generator* during the transition period in relation to a system to which this clause applies, the applicant must obtain the approval of *AEMO* to classify in accordance with new rule 2.2, with effect from the effective date:
  - (1) any *bidirectional unit* that forms part of the *integrated resource system* that the person owns, operates or controls, or from which it otherwise sources electricity, as:
    - (i) a *scheduled bidirectional unit* or a *non-scheduled bidirectional unit* or other applicable scheduling classification or classifications; and
    - (ii) a *market bidirectional unit* or a *non-market bidirectional unit* or other applicable market participation classification; and



- (2) any *generating unit* that forms part of the *integrated resource system* that the person owns, operates or controls, or from which it otherwise sources electricity, as:
  - (i) a *scheduled generating unit*, a *semi-scheduled generating unit* or a *non-scheduled generating unit*; and
  - (ii) a *market generating unit* or a *non-market generating unit*.
- (c) On and from the effective date, subject to the *Rules*:
  - (1) a New IRS Participant ceases to be registered with *AEMO* as a *Generator* and where applicable, a *Customer*, in relation to its *integrated resource system* and instead is taken to be registered as an *Integrated Resource Provider* in relation to the *integrated resource system*;
  - (2) the approved classifications of the *bidirectional units* and *generating units* and (where applicable) other *plant* comprised in the New IRS Participant's *integrated resource system* in accordance with paragraph (b) take effect; and
  - (3) the *performance standards* applicable to the *integrated resource system* immediately before the effective date continue to apply.

#### **11.145.4 Small Generation Aggregators to become Small Resource Aggregators**

- (a) On and from the effective date, a person who immediately before the effective date is registered with *AEMO* as a *Small Generation Aggregator* is taken:
  - (1) to be registered with *AEMO* as an *Integrated Resource Provider*;
  - (2) to have classified under clause 2.2.8(a) of new Chapter 2 as one of its *market connection points* each of the *connection points* for the *small generating units* for which it was the *Small Generation Aggregator* immediately prior to the effective date; and
  - (3) to be a *Small Resource Aggregator* in respect of each of the *market connection points* referred to in subparagraph (2).
- (b) A *generating unit* that is a *small generating unit* immediately before the effective date continues to be a *small generating unit* on and from the effective date.

#### **11.145.5 Effect of a change in registration category and updating the register**

- (a) A change of registration category or classification pursuant to clause 11.145.2, 11.145.3 or 11.145.4 does not affect:

- (1) any rights or liabilities of a *Registered Participant* or *AEMO* under the *Rules* or excuse any failure to comply with the *Rules* arising, or in respect of any period, prior to the change taking effect; or
  - (2) any *performance standards* applicable in respect of an *integrated resource system* under the old rules, which subject to the *Rules*, continue to apply in respect of the *integrated resource system*.
- (b) *AEMO* must, promptly after the effective date, amend its register of *Registered Participants* to take into account changes in registration and classification pursuant to clause 11.145.3 or 11.145.4 and notify the relevant *Registered Participant* of the changes.

### **11.145.6 Continuing registrations, classifications and exemptions**

- (a) Subject to clauses 11.145.2 and 11.145.3, a person who immediately before the effective date is registered with *AEMO* as a *Generator* under old Chapter 2 in relation to a *generating system* (as defined under old Chapter 10 and to avoid doubt excluding a transitioning generating system):
- (1) continues to be registered as a *Generator* under new Chapter 2 on and from the effective date; and
  - (2) subject to paragraphs (b) and (c), where the *generating system* (as defined under the old rules) is an *integrated resource system* (as defined under the new rules), in being so registered, is taken to comply with clause 2.1A.1 of new Chapter 2.
- (b) A person is not eligible to classify as *scheduled load any plant* that shares a *connection point* with an *integrated resource system* referred to in subparagraph (a)(2) or with any *production unit* forming part of the *integrated resource system*, unless that person is registered in relation to the *integrated resource system* as an *Integrated Resource Provider*.
- (c) Subparagraph (a)(2) ceases to apply in relation to an *integrated resource system* referred to in subparagraph (a)(2) where, after the effective date, the *Registered Participant* for the *integrated resource system* is required, in accordance with the *Rules*, to amend any of the *performance standards* applicable to the *integrated resource system*.
- (d) Subject to clauses 11.145.2 and 11.145.3, a *generating unit* that immediately before the effective date is classified under old Chapter 2 continues to have the same classification under new Chapter 2 on and from the effective date.
- (e) Despite clause 2.2.5(a) of the new rules, a *generating unit* that immediately before the effective date is classified as a *non-market*

*generating unit* under old Chapter 2 continues to be classified as a *non-market generating unit* under new Chapter 2.

- (f) Subject to clauses 11.145.2 and 11.145.3, a person who immediately before the effective date is registered with *AEMO* as a *Customer* under old Chapter 2 continues to be registered as a *Customer* under new Chapter 2.
- (g) The *connection point* for a *load* that immediately before the effective date is a *market load* of a *Market Participant* under the old rules is taken to be classified on and from the effective date as a *market connection point* of the *Market Participant* classified under clause 2.3.4(b) or (i) of the new rules, as applicable to the *connection point*.
- (h) Subject to clauses 11.145.2 and 11.145.3, a *load*, *connection point* or *connected plant* that immediately before the effective date is a *scheduled load* of a *Market Participant* under the old rules is taken to be classified on and from the effective date as a *scheduled load* of the *Market Participant* under clause 2.3.4A of the new rules with respect to the relevant *connected plant*.
- (i) In relation to a *generating unit* that immediately before the effective date is classified as an *ancillary service generating unit* under clause 2.2.6 of the old rules:
  - (1) the *generating unit* is taken on and from the effective date to be classified as an *ancillary service unit* under clause 2.3D.1 of the new rules; and
  - (2) any conditions imposed by *AEMO* under clause 2.2.6(f) of the old rules in relation to the classification under clause 2.2.6 of the old rules are taken on and from the effective date to be conditions imposed by *AEMO* under clause 2.3D.1(f) of the new rules in relation to the *ancillary service unit*.
- (j) In relation to a *load* that immediately before the effective date is classified as an *ancillary service load* under clause 2.3.5 of the old rules:
  - (1) the *connected plant* at the *connection point* for the *load* the subject of the classification is taken on and from the effective date to be classified as an *ancillary service unit* under clause 2.3D.1 of the new rules; and
  - (2) any conditions imposed by *AEMO* under clause 2.3.5(f) of the old rules in relation to the classification under clause 2.3.5 of the old rules are taken on and from the effective date to be conditions imposed by *AEMO* under clause 2.3D.1(f) of the new rules in relation to the *ancillary service unit*.
- (k) A *Market Participant* who immediately before the effective date is an *Ancillary Service Provider* under the old rules continues on and from

the effective date to be an *Ancillary Service Provider* under the new rules.

- (l) A person who immediately before the effective date is registered with *AEMO* as a *Demand Response Service Provider* under old Chapter 2 continues on and from the effective date to be registered as a *Demand Response Service Provider* under new Chapter 2.
- (m) A *qualifying load* that immediately before the effective date is classified as a *wholesale demand response unit* under old rule 2.3.6 continues on and from the effective date to be classified as a *wholesale demand response unit* under clause 2.3.6 of the new rules.
- (n) A person exempt under clause 2.2.1(c) of old Chapter 2 immediately before the effective date is taken, on and from the effective date, to be exempt under clause 2.1A.2(a) of new Chapter 2 to the same extent, and on the same conditions, as the exemption under clause 2.2.1(c) of old Chapter 2.
- (o) Registrations, classifications and exemptions referred to in this clause are subject to new Chapter 2 on and from the effective date as if the registration or classification had been made under new Chapter 2.

#### **11.145.7 Applications under Chapter 2 lodged before the effective date**

- (a) This clause applies to any application (including an application for registration or classification) submitted to *AEMO* under old Chapter 2 before the effective date that has not been finally determined by *AEMO* before the effective date.
- (b) On and from the effective date an application to which this clause applies is subject to new Chapter 2.

#### **11.145.8 Generating units registered with AEMO for services**

- (a) A *generating unit* that immediately before the effective date is a *system strength generating unit* under the old rules is taken, on and from the effective date, to be a *system strength production unit* under the new rules.
- (b) A *generating unit* that immediately before the effective date is an *inertia generating unit* under the old rules is taken, on and from the effective date, to be an *inertia unit* under the new rules.

#### **11.145.9 Amendments to documents published under the Rules**

- (a) By the effective date each market body must review and where the market body considers it necessary or desirable amend and publish procedures, guidelines and other documents published by the market body under the *Rules* to take into account the Amending Rule.

- (b) In amending the documents referred to in paragraph (a), the market body must follow the process for amending those documents (if any) specified in the *Rules*.
- (c) A market body may make minor or administrative amendments to the documents referred to in paragraph (a) without following the process for amending those documents (if any) specified in the *Rules*.
- (d) Amendments made in accordance with paragraph (a) must take effect on and from the effective date or any earlier time specified by the relevant market body.

#### **11.145.10 Application of the Amending Rule to existing connection enquiries**

- (a) This clause applies where, before the effective date, a *Connection Applicant* has, in respect of *plant* that the *Connection Applicant* proposes to *connect*:
  - (1) made a *connection* enquiry in accordance with clauses 5.3.2 or 5.3A.5 (**existing connection enquiry**); and
  - (2) not made an *application to connect* to a *Network Service Provider*.
- (b) On and from the effective date:
  - (1) new Chapter 5 applies for the purposes of determining the *access standards* that apply to the *plant* that the *Connection Applicant* proposes to *connect*;
  - (2) the existing connection enquiry will be taken to be a *connection* enquiry under the new Chapter 5 with respect to the proposed *plant*; and
  - (3) the *Network Service Provider* must:
    - (i) within 10 *business days* after the effective date, use its reasonable endeavours to provide written notification to a *Connection Applicant* to which this clause applies that the existing connection enquiry will be treated as a *connection* enquiry under new Chapter 5; and
    - (ii) within 20 *business days* after providing the written notification in subparagraph (3)(i), in consultation with *AEMO* and where necessary, provide each *Connection Applicant* notified under subparagraph (3)(i) with:
      - (A) any further information required under clause 5.3.3 of new Chapter 5 relevant to the proposed *plant*; and

(B) written notice of any further information or data to be provided by the *Connection Applicant* to the *Network Service Provider*,

to enable the *Connection Applicant* to submit an *application to connect* in accordance with new Chapter 5 with respect to the proposed *plant*.

- (c) Where the *Network Service Provider* has charged the *Connection Applicant* any fees or charges with respect to the existing connection enquiry, the *Network Service Provider* must not charge the *Connection Applicant* any additional fees or charges on or from the effective date with respect to such existing connection enquiry, except to the extent necessary to cover the reasonable costs of work required to notify the *Connection Applicant* and provide any relevant information under subparagraph (b)(3)(ii). For the avoidance of doubt, this clause does not preclude a *Network Service Provider* recovering an application fee from the *Connection Applicant* under clauses 5.3.4(b) or 5.3A.9.

#### **11.145.11 Application of the Amending Rule to existing applications to connect**

- (a) This clause applies where, before the effective date, a *Connection Applicant* has, in respect of *plant* that the *Connection Applicant* proposes to *connect*:
- (1) made an *application to connect* to a *Network Service Provider* (**existing application to connect**); and
  - (2) not received an offer to *connect* from the relevant *Network Service Provider* in respect of the existing application to connect.
- (b) On and from the effective date:
- (1) new Chapter 5 applies for the purposes of determining the *access standards* that apply to the *plant* that the *Connection Applicant* proposes to *connect*;
  - (2) the existing application to connect will be taken to be an *application to connect* under new Chapter 5 with respect to the proposed *plant*; and
  - (3) the *Network Service Provider* must:
    - (i) within 10 *business days* after the access standards commencement date, use its reasonable endeavours to provide written notification to a *Connection Applicant* to which this clause applies that the existing application to connect will be treated as an *application to connect* under new Chapter 5; and



- (ii) within 20 *business days* after providing the written notification in subparagraph (3)(i), in consultation with *AEMO* and where necessary, provide each *Connection Applicant* notified under subparagraph (3)(i) (with a copy to be provided to *AEMO*) with:
  - (A) any further information required under clause 5.3.3 or clause 5.3A.5 of new Chapter 5 relevant to the proposed *plant*, including for each technical requirement, written details of the *automatic access standards*, *minimum access standards* and *negotiated access standards* that are *AEMO advisory matters*; and
  - (B) written notice of any further information to be provided by the *Connection Applicant* (which may include information required to be provided under clauses 5.2.5(d) and (e), clauses 5.2.5A(d) and (e) and Schedule 5.5),

necessary for the *Network Service Provider* to prepare an offer to *connect* in accordance with new Chapter 5 with respect to the proposed *plant*.

- (c) Where the *Network Service Provider* has charged the *Connection Applicant* any fees or charges with respect to the existing application to connect, the *Network Service Provider* must not charge the *Connection Applicant* any additional fees or charges on or from the effective date with respect to such existing application to connect, except to the extent necessary to cover the reasonable costs of work required for the *Network Service Provider* to prepare an offer to *connect* in accordance with new Chapter 5, including the requirements to notify the *Connection Applicant* and provide any relevant information under subparagraph (b)(3).
- (d) A *Network Service Provider* to which this clause applies may extend the period referred to in clause 5.3.6(a) to reasonably allow for any additional time taken in excess of the period allowed in the *preliminary program* that is necessary to take account of the differences in *access standards* between old Chapter 5 and new Chapter 5.

#### **11.145.12 Application of the Amending Rule to existing offers to connect**

- (a) This clause applies where, before the effective date, a *Connection Applicant*, other than a *Connection Applicant* to whom clause 11.145.13 applies:
  - (1) has received an offer to *connect* from the relevant *Network Service Provider* in respect of an *application to connect*; and



- (2) has not entered into a *connection agreement* with the relevant *Network Service Provider* in respect of that *application to connect*.
- (b) On and from the effective date, old Chapter 5 applies for the purposes of determining the *access standards* that apply to the *plant* that the *Connection Applicant* proposes to *connect* under that offer to *connect*.

#### **11.145.13 Early application of the new access standards to certain plant**

- (a) This clause applies where:
  - (1) on or after the access standards commencement date, a *Connection Applicant*, in respect of *plant* that the *Connection Applicant* proposes to *connect*, makes a *connection* enquiry in accordance with clauses 5.3.2 or 5.3A.5; and
  - (2) the *plant* is or will be an *integrated resource system* comprising one or more *bidirectional units* (as defined under the new rules) that is a *generating unit* (as defined under the old rules).
- (b) This clause also applies where:
  - (1) a *Registered Participant* proposes to alter *connected plant* and clause 5.3.9 or new clause 5.3.12 applies in relation to a proposed alteration;
  - (2) the *Registered Participant's* submission under clause 5.3.9 or new clause 5.3.12 in relation to the proposed alteration is made on or after the access standards commencement date; and
  - (3) the *connected plant* is or will be an *integrated resource system* comprising one or more *bidirectional units*.
- (c) Where this clause applies, Schedule 5.2 of the new rules applies for the purposes of determining the *access standards* that apply to the *plant* or in relation to the alteration to the *connected plant* and for the purposes of applying the schedule:
  - (1) the *plant* will be taken to be an *integrated resource system*;
  - (2) any *generating unit* (as defined under the old rules) that is a *bidirectional unit* will be taken to be a *bidirectional unit*; and
  - (3) the *Connection Applicant* or *Registered Participant* (as applicable) will be taken to be, or to be proposed to be, an *Integrated Resource Provider* in relation to the *integrated resource system*.

#### **11.145.14 Application of the Amending Rule to existing connection agreements**

- (a) None of the provisions in the Amending Rule or the changes in registration or classification provided for in this rule 11.145 are

intended to have, nor should they be read or construed as having, the effect of:

- (1) altering the terms of an existing connection agreement;
  - (2) altering the contractual rights or obligations of any of the parties under an existing connection agreement including the nature of, or standards of performance applicable to, any service provided under the agreement;
  - (3) relieving the parties under any such existing connection agreement of their contractual obligations under such an agreement; or
  - (4) requiring the reclassification of a *negotiated transmission service* provided under such an agreement as a *prescribed transmission service*, or of a *prescribed transmission service* provided under such an agreement as a *negotiated transmission service*.
- (b) If, after the effective date, a *Registered Participant* who has entered into an existing connection agreement is required, in accordance with the *Rules*, to amend any of the *performance standards* set out in that existing connection agreement, new Chapter 5 applies for the purposes of amending such *performance standards*.
- (c) The Amending Rule is neither intended to have, nor is it to be read or construed as having, the effect of changing the application of clause 11.143.11(c) (if applicable) in relation to *plant* the subject of that clause.

#### **11.145.15 Provision of ancillary services by Market Small Generation Aggregators**

- (a) During the early implementation period, a *Market Small Generation Aggregator* in respect of a *small generating unit* (as defined under the old rules) it has classified as a *market generating unit* (as defined under the old rules):
- (1) is taken, for the purposes of clause 2.3.5 (as in force during the early implementation period) to be a *Market Customer* in respect of the *connection point* for that *generating unit*;
  - (2) may apply to *AEMO* for approval to classify the *connection point* for the *generating unit* as an *ancillary service load* under and in accordance with clause 2.3.5 (as in force during the early implementation period) as if the *Market Small Generation Aggregator* were a *Market Customer*; and
  - (3) may apply to *AEMO* for approval to aggregate two or more *connection points* that have been classified as *ancillary service loads* pursuant to subparagraph (2) under clause 3.8.3(a1) (as

in force during the early implementation period) as if the *Market Small Generation Aggregator* were a *Market Customer*.

- (b) If an application referred to in subparagraph (a)(2) is approved and subject to the *Rules*:
  - (1) the relevant *Market Small Generation Aggregator* will be taken to be an *Ancillary Service Provider* and the *connection point* for the *small generating unit* will be an *ancillary service load* for the purpose of the *Rules*;
  - (2) clause 11.145.6(g) applies in relation to the *small generating unit*; and
  - (3) clause 11.145.6(k) applies to the *Market Small Generation Aggregator* including in its capacity as a *Small Resource Aggregator* pursuant to clause 11.145.4.

#### **11.145.16 Early implementation of aggregated dispatch conformance**

- (a) This clause applies to a *generating system* that comprises more than one of the following (each a **scheduled resource**), and where *AEMO* gives separate *dispatch instructions* for each: a *scheduled generating unit*, a *semi-scheduled generating unit* and a *scheduled load*.
- (b) During the early implementation period, a *Generator* for a *generating system* to which this clause applies may, in accordance with the *power system operating procedure* made under paragraph (d), comply in aggregate (**aggregated dispatch conformance**) with the *dispatch instructions* for a *trading interval* for two or more of the scheduled resources comprised in the *generating system*, excluding any scheduled resource for which resource level compliance has been specified in accordance with paragraph (c).
- (c) During the early implementation period, *AEMO* may specify in a *dispatch instruction* for a scheduled resource in a *generating system* that the scheduled resource the subject of the *dispatch instruction* is required to operate in accordance with that *dispatch instruction* (**resource level compliance**) where a *network constraint* would be violated if the scheduled resource were to operate other than in accordance with the *dispatch instruction*, due to technical characteristics of the scheduled resource.
- (d) By 31 March 2023, *AEMO* must make, as a *power system operating procedure*, a procedure setting out:
  - (1) for the purposes of paragraph (b), permitted forms of aggregated dispatch conformance by one or more scheduled resources comprised in a *generating system*; and
  - (2) arrangements for *AEMO* to specify when resource level compliance is required for the purposes of paragraph (c).

[END OF RULE AS MADE]

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