

## **CHAPTER 10**



## 10. Glossary

### **AARR**

The *aggregate annual revenue requirement* for prescribed transmission services.

### **abnormal conditions**

A condition described in clause 4.2.3A(a).

### **above-standard system shared transmission service**

A *shared transmission service* that exceeds the requirements referred to in paragraph (a)(1) or (2) of the definition of *negotiated transmission service* principally as a consequence of investments that have *system-wide benefits*.

### **ACCC**

Australian Competition and Consumer Commission as established under the *Competition and Consumer Act 2010* (Cth).

### **acceptable credit criteria**

The credit criteria defined in clause 3.3.3.

### **acceptable credit rating**

The credit rating determined by *AEMO* under clause 3.3.4.

### **accepted restriction offer**

A *restriction offer* accepted by *AEMO* in accordance with the *restriction offer procedures*.

### **access charge**

For a *Distribution Network Service Provider* - in respect of access to:

- (a) *negotiated distribution services* which would have been *negotiated distribution services* regardless of the operation of clause 6.24.2(c), an amount described in clause 5.3AA(f)(4).
- (b) **[Deleted]**

### **access party**

In respect of a service that is listed in column 1 of Table S7.5.1.1, the party listed in column 3 of Table S7.5.1.1.

### **access policy**

An access policy as required for *large DCA services* under clause 5.2A.8.

***access standard***

Either an *automatic access standard* or a *negotiated access standard* for a particular technical requirement as recorded in a *connection agreement*.

***Accredited Service Provider category***

A category of registration of a *Metering Provider* established by AEMO under S7.2.2(b) as a consequence of requirements of a *participating jurisdiction* to install *metering installations*.

***accumulated energy data***

The data that results from the measurement of the flow of electricity in a power conductor where the data represents a period in excess of a *trading interval*. *Accumulated energy data* is held in the *metering installation*. The measurement is carried out at a *metering point*.

***accumulated metering data***

The *accumulated energy data*, once collected from a *metering installation*, is *accumulated metering data*. *Accumulated metering data* is held in a *metering data services database* and the *metering database*.

***activate, activated, activation***

The operation of a *generating unit* (other than a *scheduled generating unit*) at an increased *loading level* or reduction in demand (other than a *scheduled load*) undertaken in response to a request by AEMO in accordance with an *unscheduled reserve contract*.

***active energy***

A measure of electrical energy flow, being the time integral of the product of *voltage* and the in-phase component of current flow across a *connection point*, expressed in watthour (Wh).

***active power***

The rate at which *active energy* is transferred.

***active power capability***

The maximum rate at which *active energy* may be transferred from a *generating unit* to a *connection point* as specified or proposed to be specified in a *connection agreement* (as the case may be).

***additional intervention claim***

Has the meaning given in clause 3.12.2(k).

***adequately damped***

In relation to a *control system*, when tested with a step change of a feedback input or corresponding reference, or otherwise observed, any oscillatory response at a *frequency* of:

- (a) 0.05 Hz or less, has a damping ratio of at least 0.4;
- (b) between 0.05 Hz and 0.6 Hz, has a halving time of 5 seconds or less (equivalent to a damping coefficient  $-0.14$  nepers per second or less); and
- (c) 0.6 Hz or more, has a damping ratio of at least 0.05 in relation to a *minimum access standard* and a damping ratio of at least 0.1 otherwise.

***adjusted gross energy***

The *energy* adjusted in accordance with clause 3.15.5 (for a *transmission network connection point*) or clause 3.15.5A (for a *virtual transmission node*) or clause 3.15.4 (for any other *connection point*).

***adjusted locational component***

Has the meaning given to it in clause 6A.23.3(b).

***adjusted non-locational component***

Has the meaning given to it in clause 6A.23.3(e).

***administered floor price***

A price floor to apply to a *regional reference price*, with the levels of the price floor being administered under clause 3.14.1 and the circumstances under which it can be invoked by *AEMO* being determined as set out in clause 3.14.2.

***administered price cap***

A price cap to apply to a *dispatch price*, *regional reference price* or *ancillary service price* as specified in clause 3.14.1.

***administered price period***

A period declared by *AEMO*, in accordance with clause 3.14.2, in which an *administered price cap* may be invoked.

***adoptive jurisdiction***

Has the meaning given in the *National Electricity Law*.

***adverse system strength impact***

An adverse impact, assessed in accordance with the *system strength impact assessment guidelines*, on the ability under different operating conditions of:

- (a) the *power system* to maintain system stability in accordance with clause S5.1a.3; or

- (b) a *generating system* or *market network service facility* forming part of the *power system* to maintain stable operation including following any *credible contingency event* or *protected event*,

so as to maintain the power system in a *secure operating state*.

***Adviser***

The Dispute Resolution Adviser specified in clause 8.2.2(a).

***Adviser referral notice***

A notice referring a dispute to the *Adviser* for the purposes of clause 8.2.5.

***AEMC***

The Australian Energy Market Commission, which is established under section 5 of the *Australian Energy Market Commission Establishment Act 2004* (SA).

***AEMO***

Means Australian Energy Market Operator Limited (ACN 072 010 327)

**Note**

Before its change of name, AEMO was known as NEMMCO.

***AEMO advisory matter***

A matter that relates to *AEMO*'s functions under the *National Electricity Law* and a matter in which *AEMO* has a role under clause 5.3.4B or in schedules 5.1a, 5.1, 5.2, 5.3 and 5.3a. Advice on the acceptability of *negotiated access standards* under the following clauses are deemed to be *AEMO advisory matters*: S5.1.9, S5.2.5.1, S5.2.5.3 to S5.2.5.5, S5.2.5.7 to S5.2.5.14, S5.2.6.1, S5.2.6.2, S5.3a.4.1 and S5.3a.14.

***AEMO co-ordinating centre***

The control centre from which *AEMO* conducts *market* related activities and the coordination of the operation of the *national grid*.

***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 network services or scheduled loads* in accordance with a *scheduled reserve contract*; or
  - (2) *activating loads or generating units* under an *unscheduled reserve contract*.

***AEMO Member***

A person appointed as a *Member* by *AEMO* to represent *AEMO* in accordance with clause 7.17.10(c).

***AEMO power system security responsibilities***

The responsibilities described in clause 4.3.1.

***AER***

The Australian Energy Regulator, which is established by section 44AE of the *Competition and Consumer Act 2010* (Cth).

***affected participant's adjustment claim***

Has the meaning given in clause 3.12.2(g)(3).

***Affected Participant***

- (a) In respect of a particular *direction* in an *intervention price trading interval*:
  - (1) a *Scheduled Generator* or *Scheduled Network Service Provider*:
    - (i) which was not the subject of the *direction*, that had its *dispatched* quantity affected by that *direction*; or
    - (ii) which was the subject of the *direction*, that had its *dispatched* quantity for other *generating units* or other services which were not the subject of that *direction* affected by that *direction*, however, the *Scheduled Generator* or *Scheduled Network Service Provider* is only an *Affected Participant* in respect of those *generating units* and services which were not the subject of that *direction*; or
  - (2) 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*; and
- (b) in relation to the exercise of the *RERT* under rule 3.20:
  - (1) a *Scheduled Generator* or *Scheduled Network Service Provider*:
    - (i) whose *plant* or *scheduled network service* was not *dispatched* under a *scheduled reserve contract*, that had its *dispatched* quantity affected by the *dispatch* of *plant* or *scheduled network service* under that *scheduled reserve contract*; and
    - (ii) who was not the subject of *activation* under an *unscheduled reserve contract*, that had its *dispatched* quantity affected by the *activation* of *generating units* or *loads* under that *unscheduled reserve contract*;

- (2) a *Scheduled Generator* or *Scheduled Network Service Provider* whose *plant* or *scheduled network service* was *dispatched* under a *scheduled reserve contract*, that had its *dispatched* quantity for other *generating units* or other services which were not *dispatched* under the *scheduled reserve contract* affected by that *dispatch* of *plant* or *scheduled network service* under that *scheduled reserve contract*, however, the *Scheduled Generator* or *Scheduled Network Service Provider* is only an *Affected Participant* in respect of those *generating units* and services which were not *dispatched* under that *scheduled reserve contract*; or
- (3) 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 *plant* or *scheduled network service* under a *scheduled reserve contract* or the *activation* of *generating units* or *loads* under an *unscheduled reserve contract*.

***aggregate annual revenue requirement***

For *prescribed transmission services*, the meaning in clause 6A.22.1 and for any other service, the calculated total annual revenue to be earned by an entity for a defined class or classes of service.

***aggregate payment due***

The aggregate of the net amounts payable by *AEMO* to each of the *Market Participants* to whom payments are to be made in relation to *spot market transactions* or *reallocation transactions* in respect of a *billing period* determined in accordance with clause 3.15.22(c).

***agreed capability***

In relation to a *connection point*, the capability to receive or send out power for that *connection point* determined in accordance with the relevant *connection agreement*.

***allowed rate of return***

Has the meaning given to it by clause 6.5.2(a) or clause 6A.6.2(a), as the case may be.

***allowed rate of return objective***

Has the meaning given to it by clause 6.5.2(c) or clause 6A.6.2(c), as the case may be.

***alternative control service***

A *distribution service* that is a *direct control service* but not a *standard control service*.



***alternative network constraint formulation***

A *network constraint* equation formulation used by AEMO other than a *fully co-optimised network constraint formulation*.

***Amending Rule***

A Rule made by the AEMC under section 103 of the *National Electricity Law* on and from the date of commencement of the operation of that Rule, or parts of that Rule.

***ancillary service fees***

The fees determined by AEMO under Chapter 2 in relation to *ancillary services*.

***ancillary service generating unit***

A *generating unit* which has been classified in accordance with Chapter 2 as an *ancillary service generating unit*.

***ancillary service load***

A *market load* or *load* which has been classified in accordance with Chapter 2 as an *ancillary service load*.

***ancillary service price***

In respect of a *dispatch interval*, for a *market ancillary service*, the common clearing price for the *market ancillary service* determined in accordance with clause 3.9.

***Ancillary Service Provider***

A person who engages in the activity of owning, controlling or operating a *generating unit*, *load* or *market load* classified in accordance with Chapter 2 as an *ancillary service generating unit* or *ancillary service load*, as the case may be.

***ancillary services***

*Market ancillary services* and *non-market ancillary services*.

***ancillary services agreement***

An agreement under which an *NMAS provider* agrees to provide one or more *non-market ancillary services* to AEMO.

***annual benchmarking report***

Has the meaning given to it by clause 6.27 or clause 6A.31, as the case may be.

***annual building block revenue requirement***

The amount representing the revenue requirement of a *Transmission Network Service Provider* for each *regulatory year* of a *regulatory control period* calculated in accordance with clause 6A.5.4.

***annual revenue requirement***

An amount representing revenue for a *Distribution Network Service Provider*, for each *regulatory year* of a *regulatory control period*, calculated in accordance with Part C of Chapter 6.

***annual service revenue requirement (or "ASRR")***

Has the meaning set out in clause 6A.22.2.

***apparent power***

The square root of the sum of the squares of the *active power* and the *reactive power*.

***applicable regulatory instruments***

All laws, regulations, orders, licences, codes, determinations and other regulatory instruments (other than the *Rules*) which apply to *Registered Participants* from time to time, including those applicable in each *participating jurisdiction* as listed below, to the extent that they regulate or contain terms and conditions relating to access to a *network*, *connection to a network*, the provision of *network services*, *network service price* or *augmentation of a network*.

(1) New South Wales:

- (a) the *Electricity Supply Act 1995* (**ES Act**);
- (b) all regulations made and licences (**Licences**) issued under the ES Act;
- (c) the *Independent Pricing and Regulatory Tribunal Act 1992* (**IPART Act**);
- (d) all regulations and determinations made under the IPART Act;
- (e) all regulatory instruments applicable under the Licences; and
- (f) *Commercial Arbitration Act 2010*.

(2) Victoria:

- (a) the *Electricity Industry Act 2000* (**EI Act**);
- (b) all regulations made and licences (**Licences**) issued under the EI Act;
- (c) the *Essential Services Commission Act 2001* (**ESCV Act**);
- (d) all regulations and determinations made under the ESCV Act;
- (e) all regulatory instruments applicable under the Licences; and
- (f) the Tariff Order made under section 158A(1) of the *Electricity Industry Act 1993* and continued in effect by clause 6(1) of Schedule 4

to the *Electricity Industry (Residual Provisions) Act 1993*, as amended or varied in accordance with section 14 of the EI Act.

- (3) South Australia:
  - (a) the *Electricity Act 1996*;
  - (b) all regulations made and licences (**Licences**) issued under the Electricity Act;
  - (c) the *Essential Services Commission Act 2002* (**ESCSA Act**);
  - (d) all regulations and determinations made under the ESCSA Act;
  - (e) all regulatory instruments applicable under the Licences; and
  - (f) the Electricity Pricing Order made under section 35B of the Electricity Act.
- (4) Australian Capital Territory:
  - (a) the *Utilities Act 2000*;
  - (b) all regulations made and licences (**Licences**) issued under the Utilities Act;
  - (c) the *Independent Competition and Regulatory Commission Act 1997* (**ICRC Act**);
  - (d) all regulations and determinations made under the ICRC Act; and
  - (e) all regulatory instruments applicable under the Licences.
- (5) Queensland:
  - (a) the *Electricity Act 1994*;
  - (b) all regulations made and authorities and special approvals (**Licences**) granted under the Electricity Act;
  - (c) the *Queensland Competition Authority Act 1997* (**QCA Act**);
  - (d) all regulations and determinations made under the QCA Act;
  - (e) all regulatory instruments applicable under the Licences; and
  - (f) the *Gladstone Power Station Agreement Act 1993* and associated agreements.
- (6) Tasmania:
  - (a) the *Electricity Supply Industry Act 1995*;

- (b) all regulations made and licences (**Licences**) issued under the Electricity Supply Industry Act;
- (c) all regulatory instruments under the Electricity Supply Industry Act or the Licences (including, without limitation, determinations of the Tasmanian Electricity Regulator under the *Electricity Supply Industry (Price Control) Regulations*); and
- (d) the Tasmanian Electricity Code issued under section 49A of the Electricity Supply Industry Act.

***application to connect***

An application made by a *Connection Applicant* in accordance with rule 5.3 or rule 5.3A for *connection* to a *network* and/or the provision of *network services* or modification of a *connection* to a *network* and/or the provision of *network services*.

***approved jurisdictional scheme***

For a *Distribution Network Service Provider*, means a *jurisdictional scheme* in relation to which the AER:

- (a) has made a decision under clause 6.12.1(20);
- (b) has made a determination under clause 6.6.1A(e); or
- (c) is taken to have made a determination under clause 6.6.1A(f).

***approved pass through amount***

In respect of a *positive change event* for a *Transmission Network Service Provider*:

- (a) the amount which the AER determines should be passed through to *Transmission Network Users* under clause 6A.7.3(d)(2); or
- (b) the amount which the AER is taken to have determined under clause 6A.7.3(e)(1),

as the case may be.

In respect of a *positive change event* for a *Distribution Network Service Provider*:

- (a) the amount the AER determines should be passed through to *Distribution Network Users* under clause 6.6.1(d)(2); or
- (b) the amount the AER is taken to have determined under clause 6.6.1(e)(1),

as the case may be.

***approved pricing proposal***

A *pricing proposal* approved by the AER.

***ASRR***

The *annual service revenue requirement*.

***asset exemption***

Has the meaning given in clause 6.4B.1(a).

***Asset Exemption Guidelines***

Guidelines developed, maintained and *published* by the *AER* under clause 6.4B.1(c).

***asynchronous generating unit***

A *generating unit* that is not a *synchronous generating unit*.

***attributable connection point cost share***

Has the meaning set out in clause 6A.22.4.

***attributable cost share***

Has the meaning set out in clause 6A.22.3.

***auction***

A *settlement residue* auction held under clause 3.18.

***auction amounts***

All amounts:

- (a) payable by *AEMO* to *eligible persons* under *SRD agreements*; or
- (b) distributed to *Network Service Providers* under clause 3.18.4; or
- (c) recovered by *AEMO* under clause 3.18.4, clause 3.18.4A or the *auction rules*, including *auction expense fees*; or
- (d) payable by *eligible persons* to *AEMO* under *SRD agreements* including any margin referred to in clause 3.18.4A(b).

***auction expense fees***

The costs and expenses incurred by *AEMO* referred to in clause 3.18.4(b).

***auction participation agreement***

Has the meaning given in clause 3.18.1(a).

***auction rules***

The rules developed by *AEMO* under clause 3.18.3, as amended from time to time in accordance with that clause.

***augmentation***

Has the meaning given in the *National Electricity Law*.

***augmentation technical report***

A report on *augmentation* under rule 5.21.

***Australian Standard (AS)***

The most recent edition of a standard publication by Standards Australia (Standards Association of Australia).

***Australian Government's National Greenhouse and Energy Reporting Framework***

The reporting framework developed under the National Greenhouse and Energy Reporting Act 2007 (Cth).

***Authority***

Any government, government department, instrumentality, *Minister*, agency, statutory authority or other body in which a government has a controlling interest, and includes the *AEMC*, *AEMO*, the *AER* and the *ACCC* and their successors.

***automatic access standard***

In relation to a technical requirement of access, a standard of performance, identified in a schedule of Chapter 5 as an automatic access standard for that technical requirement, such that a *plant* that meets that standard would not be denied access because of that technical requirement.

***automatic generation control system(AGC)***

The system into which the *loading levels* from economic *dispatch* will be entered for *generating units* operating on automatic generation control in accordance with clause 3.8.21(d).

***automatic reclose equipment***

In relation to a *transmission line* or *distribution line*, the equipment which automatically recloses the relevant line's circuit breaker(s) following their opening as a result of the detection of a fault in the *transmission line* or the *distribution line* (as the case may be).

***available capacity***

The total MW capacity available for *dispatch* by a *scheduled generating unit*, *semi-scheduled generating unit* or *scheduled load* (i.e. maximum plant availability) or, in relation to a specified *price band*, the MW capacity within that *price band* available for *dispatch* (i.e. availability at each price band).

***average electrical energy loss***

The volume-weighted average of the *electrical energy losses* incurred in each *trading interval* over all *trading intervals* in a defined period of time

***average loss factor***

A multiplier used to describe the *average electrical energy loss* for electricity used or transmitted.

***avoided Customer TUOS charges***

The charges described in rule 5.3AA(h).

***B2B Change Party***

A person who has provided a change proposal to the *Information Exchange Committee* under clause 7.17.4(f) and is not otherwise a *B2B Party*.

***B2B Communications***

Communications between *B2B Parties* relating to end-users or *supply* to end-users provided for in the *B2B Procedures*.

***B2B costs***

The following costs incurred by *AEMO*:

- (a) the costs of the development of the *B2B Procedures*;
- (b) the costs of the establishment and operation of the *Information Exchange Committee* (including the engagement costs of specialist advisers ), all of which must be set out in the budget prepared by the *Information Exchange Committee* pursuant to clause 7.17.7(d) and the *Information Exchange Committee Annual Report*; and
- (c) the operational costs associated with any service provided by *AEMO* to facilitate *B2B Communications* (including providing, maintaining, upgrading and operating a *B2B e-Hub*).

***B2B Data***

Data relating to *B2B Communications*.

***B2B Decision***

A decision of *AEMO* to approve or not approve an *Information Exchange Committee Recommendation*.

***B2B Determination Dispute***

A dispute in relation to either a *B2B Decision* or an *Information Exchange Committee Recommendation*.

***B2B e-Hub***

An electronic information exchange platform provided, maintained and operated by *AEMO* to facilitate *B2B Communications*.

### ***B2B e-Hub Participant***

A person who has been accredited by *AEMO* as a *B2B e-Hub Participant* under clause 7.17.2.

### ***B2B factors***

The following factors:

- (a) The reasonable costs of compliance by *AEMO* and *B2B Parties* with the *B2B Procedures* compared with the likely benefits from *B2B Communications*;
- (b) The likely impacts on innovation in and barriers to entry to the markets for services facilitated by advanced meters resulting from changing the existing *B2B Procedures*; and
- (c) The implementation timeframe reasonably necessary for *AEMO* and *B2B Parties* to implement systems or other changes required to be compliant with any change to existing *B2B Procedures*.

### ***B2B Party***

*Distribution Network Service Providers, retailers, Local Retailers, Metering Coordinators, Metering Providers, Metering Data Providers, Embedded Network Managers and other Third Party B2B Participants.*

### ***B2B Principles***

The following principles:

- (a) *B2B Procedures* should provide a uniform approach to *B2B Communications* in *participating jurisdictions*;
- (b) *B2B Procedures* should detail operational and procedural matters and technical requirements that result in efficient, effective and reliable *B2B Communications*;
- (c) *B2B Procedures* should avoid unreasonable discrimination between *B2B Parties*; and
- (d) *B2B Procedures* should protect the confidentiality of commercially sensitive information.

### ***B2B Procedures***

The *B2B Procedures* made under Part H with the content required under clause 7.17.3.

### ***B2B Procedures Change Pack***

A document consisting of:

- (a) a *B2B Proposal*;



- (b) a report setting out an overview of the likely impact of the *B2B Proposal* on *AEMO* and *B2B Parties*;
- (c) draft *B2B Procedures* (incorporating proposed changes in mark up, where appropriate); and
- (d) an issues paper explaining why the *B2B Proposal* is being presented.

***B2B Proposal***

A proposal for *B2B Procedures*, or a change to the *B2B Procedures*, which is the subject of consultation by the *Information Exchange Committee*.

***bank bill rate***

On any *day*, the rate determined by *AEMO* (having regard to such market indicators as *AEMO* in its discretion selects) to be the market rate as at 10.00 am on that *day* (or if not a *business day*, on the previous *business day*) for Australian dollar denominated bank accepted bills of exchange having a tenor of 30 *days*.

***basic connection service***

Has (in the context of Chapter 5A) the meaning given in clause 5A.A.1.

***basic micro EG connection service***

Has (in the context of Chapter 5A) the meaning given in clause 5A.A.1.

***bid and offer validation data***

Data submitted by *Scheduled Generators*, *Semi-Scheduled Generators* and *Market Participants* to *AEMO* in relation to their *scheduled loads*, *scheduled generating units*, *semi-scheduled generating units* and *scheduled market network services* in accordance with schedule 3.1.

***billed but unpaid charges***

For a *Distribution Network Service Provider*, *network charges* that have been billed to a *failed retailer* by the *Distribution Network Service Provider*, but that the *failed retailer* has not yet paid (whether before or after the relevant due date for payment).

***billing period***

The period of 7 *days* commencing at the start of the *trading interval* ending 12.30 am Sunday.

***black start capability***

A capability that allows a *generating unit*, following its *disconnection* from the *power system*, to be able to deliver electricity to either:

- (a) its *connection point*; or

- (b) a suitable point in the *network* from which *supply* can be made available to other *generating units*,

without taking *supply* from any part of the *power system* following *disconnection*.

***black system***

The absence of *voltage* on all or a significant part of the *transmission system* or within a *region* during a *major supply disruption* affecting a significant number of customers.

***breaker fail***

In relation to a *protection system*, that part of the *protection system* that protects a *Market Participant's facilities* against the non-operation of a circuit breaker that is required to open.

***breaker fail protection system***

A *protection system* that protects a *facility* against the non-operation of a circuit breaker that is required to open to clear a fault.

***building block determination***

The component of a distribution determination relevant to the regulation of *standard control services* (See rule 6.3).

***building block proposal***

For a *Distribution Network Service Provider*, the part of the provider's *regulatory proposal* relevant to the regulation of *standard control services* (See clause 6.3.1).

***busbar***

A common *connection point* in a *power station switchyard* or a *transmission network substation*.

***business day***

A day that is not:

- (a) a Saturday or Sunday; or
- (b) observed as a public holiday on the same day in each of the *participating jurisdictions* (except the Commonwealth).

***calculated metering data***

The *trading interval* data corresponding to the calculation of consumed *energy* for a type 7 *metering installation* in accordance with the *metrology procedure*. *Calculated metering data* is held in the *metering data services database* and the *metering database*.

***call amount***

The amount determined pursuant to the formula in clause 3.3.11 for the purposes of a *call notice* where the *outstandings* of a *Market Participant* exceed its *trading limit*.

***call notice***

A notice issued by AEMO pursuant to clause 3.3.11 where the *outstandings* of a *Market Participant* exceed its *trading limit*.

***capacitor bank***

Electrical equipment used to generate *reactive power* and therefore support *voltage* levels on *distribution* and *transmission lines* in periods of high *load*.

***capacity reserve***

At any time, the amount of surplus or unused generating capacity indicated by the relevant *Generators* as being available in the relevant timeframe minus the capacity requirement to meet the current forecast *load* demand, taking into account the known or historical levels of demand management.

***capital expenditure criteria***

For a *Transmission Network Service Provider* – the matters listed in clause 6A.6.7(c)(1)–(3).

For a *Distribution Network Service Provider* – the matters listed in clause 6.5.7(c)(1)–(3).

***capital expenditure factors***

For a *Transmission Network Service Provider* - the factors listed in clause 6A.6.7(e)(1)–(14).

For a *Distribution Network Service Provider* - the factors listed in clause 6.5.7(e)(1)–(12).

***Capital Expenditure Incentive Guidelines***

Guidelines made by the AER under clause 6.4A(b) or clause 6A.5A(b), as the case may be.

***capital expenditure incentive objective***

Has the meaning given to it by clause 6.4A(a) or clause 6A.5A(a), as the case may be.

***capital expenditure objectives***

For a *Transmission Network Service Provider* – the objectives set out in clause 6A.6.7(a).

For a *Distribution Network Service Provider* – the objectives set out in clause 6.5.7(a).

***capital expenditure sharing scheme***

A scheme developed and *published* by the AER in accordance with clause 6.5.8A or clause 6A.6.5A, as the case may be.

***capital expenditure sharing scheme principles***

Has the meaning given to it by clause 6.5.8A(c) or clause 6A.6.5(c), as the case may be.

***capitalisation requirement***

The requirement set out in clause S6.2.2A(e) or clause S6A.2.2A(e), as the case may be.

***carbon dioxide equivalent intensity index***

The index published by AEMO in accordance with clause 3.13.14(f).

***carbon dioxide equivalent intensity index procedures***

The procedures published by AEMO in accordance with clause 3.13.14(a).

***cascading outage***

The occurrence of an uncontrollable succession of *outages*, each of which is initiated by conditions (e.g. instability or overloading) arising or made worse as a result of the event preceding it.

***categories of prescribed transmission services***

For the purposes of pricing for *prescribed transmission services*:

- (a) *prescribed entry services*;
- (b) *prescribed exit services*;
- (c) *prescribed common transmission services*; and
- (d) *prescribed TUOS services*.

***central dispatch***

The process managed by AEMO for the *dispatch* of *scheduled generating units*, *semi-scheduled generating units*, *scheduled loads*, *scheduled network services* and *market ancillary services* in accordance with rule 3.8.

***change***

Includes amendment, alteration, addition or deletion.

***changeover date***

Has the meaning given in the *National Electricity Law*.

***charging parameters***

The constituent elements of a tariff.

***check meter***

An additional *meter* used as a source of *check metering data* for Type 1 and Type 2 *metering installations* as specified in schedule 7.4.

***check metering data***

The *energy data*, once collected from a *check metering installation*, is *check metering data*. *Check metering data* is held in a *metering data services database* and the *metering database*.

***check metering installation***

A *metering installation* that includes a *check meter* which is used as the source of *check metering data* for validation in the *settlements* process.

***child connection point***

The agreed point of *supply* between an *embedded network* and an electrical installation, *generating unit* or other *network connected* to that *embedded network*, for which a *Market Participant* is, or proposes to be, *financially responsible*.

***clause 4.8.9 instruction***

Has the meaning given in clause 4.8.9(a1)(2).

***closure date***

Has the meaning given in clause 2.10.1(c1).

***commercial arbitrator***

A dispute resolution panel (within the meaning of section 2 of the *National Electricity Law*) established pursuant to clause 6A.30.2(b).

***commitment***

The commencement of the process of starting up and *synchronising* a *generating unit* to the *power system*.

***communications interface***

The modem and other devices and processes that facilitate the connection between the *metering installation* and the *telecommunications network* for the purpose of the *remote acquisition* of *energy data*.

***compensation recovery amount***

Has the meaning given in clause 3.15.8(a).

***confidential information***

In relation to a *Registered Participant* or *AEMO*, information which is or has been provided to that *Registered Participant* or *AEMO* under or in connection with the *Rules* and which is stated under the *Rules*, or by *AEMO*, the *AER* or the *AEMC*, to be *confidential information* or is otherwise confidential or commercially sensitive. It also includes any information which is derived from such information.

**Note:**

In the context of Chapter 5A, the above definition has been displaced by a definition specifically applicable to that Chapter. See clause 5A.A.1.

***congestion information resource***

The information resource developed, *published* and amended from time to time by *AEMO* in accordance with rule 3.7A.

***congestion information resource guidelines***

Guidelines developed and *published* by *AEMO* in accordance with rules 3.7A(k) to (m).

***congestion information resource objective***

The objective of the *congestion information resource* which is set out in rule 3.7A(a).

***connect, connected, connection***

To form a physical link to or through a *transmission network* (including to a *network connection asset* or a *dedicated connection asset* that is physically linked to that *transmission network*) or *distribution network*.

**Note:**

In the context of Chapter 5A, the above definition has been displaced by a definition specifically applicable to that Chapter. See clause 5A.A.1.

***connection agreement***

An agreement between a *Network Service Provider* and a *Registered Participant* or other person by which the *Registered Participant* or other person is *connected* to the *Network Service Provider's transmission or distribution network* and/or receives *transmission services* or *distribution services*. In some *participating jurisdictions*, the *Registered Participant* or other person may have one *connection agreement* with a *Network Service Provider* for *connection services* and another agreement with a different *Network Service Provider* for *network services* provided by the *transmission network*.

***connection alteration***

Has (in the context of Chapter 5A) the meaning given in clause 5A.A.1.

***Connection Applicant***

A person who wants to establish or modify *connection* to a *transmission network* or *distribution network* and/or who wishes to receive *network services* and who makes a *connection enquiry* as described in clause 5.3.2 or clause 5.3A.5.

In respect of establishing or modifying a *connection* to a *transmission network* of a *Primary Transmission Network Service Provider*, a *Connection Applicant* includes:

- (a) a person seeking to *connect* its *facilities* to a *dedicated connection asset* that is or will be *connected* to the *transmission network* of that *Primary Transmission Network Service Provider*; and
- (b) a person seeking to negotiate a *network operating agreement* for a *third party IUSA*.

**Note**

A person seeking access to *large DCA services* from a *third party DCA* under an *access policy* may also need to negotiate with the *Primary Transmission Network Service Provider*.

In the context of Chapter 5A, the above definition has been displaced by a definition specifically applicable to that Chapter. See clause 5A.A.1.

***connection application***

Has (in the context of Chapter 5A) the meaning given in clause 5A.A.1.

***connection assets***

For the *declared transmission system* of an *adoptive jurisdiction*, and a *distribution system*, those components of a *transmission or distribution system* which are used to provide *connection services*.

For other *transmission systems*, *dedicated connection assets* and *network connection assets*.

**Note**

A *third party DCA* is a *connection asset* but for the purpose of registration under Chapter 2 also constitutes a *transmission system*.

***connection charge***

Has the meaning given in clause 5A.A.1.

***connection charge guidelines***

Has the meaning given in clause 5A.E.3.

***connection charge principles***

Has the meaning given in clause 5A.E.1.

***connection contract***

Has (in the context of Chapter 5A) the meaning given in clause 5A.A.1.

***connection offer***

Has (in the context of Chapter 5A) the meaning given in clause 5A.A.1.

***connection point***

In relation to a *declared shared network* and a *distribution network* (other than an *embedded network*), the agreed point of supply established between *Network Service Provider(s)* and another *Registered Participant*, *Non-Registered Customer* or *franchise customer* and includes a *parent connection point*.

In relation to other *transmission networks*, the point at which power flows to or from the person or *identified user group connected to the transmission network* can be isolated from the *transmission network*. If there is more than one such point, the *Network Service Provider* and that person or *identified user group* will agree which point is the *connection point* in their *connection agreement*.

In relation to an *embedded network*, the *child connection point*, unless otherwise specified.

***connection policy***

Has the meaning given in clause 5A.A.1.

***connection service***

An *entry service* (being a service provided to serve a *Generator* or a group of *Generators*, or a *Network Service Provider* or a group of *Network Service Providers*, at a single *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 a single *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.

***considered project***

- (a) In respect of a *transmission network augmentation*, a project that meets the following criteria:
  - (1) the *Network Service Provider* has acquired the necessary land and easements;



- (2) the *Network Service Provider* has obtained all necessary planning and development approvals;
  - (3) as applicable:
    - (i) the *augmentation* project has passed the *regulatory investment test for transmission*;
    - (ii) the *augmentation* has passed the *regulatory investment test for distribution*;
    - (iii) in respect of a *transmission investment* which has not been subject to a *regulatory investment test for transmission* or the *regulatory investment test for distribution*, an intention to proceed with the project has been published in the *Network Service Provider's Transmission Annual Planning Report* or *Distribution Annual Planning Report* (as the case may be); or
  - (4) construction has either commenced or the *Network Service Provider* has set a firm date for it to commence.
- (b) In respect of a *distribution network augmentation*, a project that meets the following criteria:
- (1) the *Network Service Provider* has acquired the necessary land and easements;
  - (2) the *Network Service Provider* has obtained all necessary planning and development approvals; and
  - (3) construction has either commenced or the *Network Service Provider* has set a firm date for it to commence.

***constrained off***

In respect of a *generating unit*, the state where, due to a *constraint* on a *network*, the output of that *generating unit* is limited below the level to which it would otherwise have been *dispatched* by AEMO on the basis of its *dispatch offer*.

***constrained on***

In respect of a *generating 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 output of that *generating unit* is limited above the level to which it would otherwise have been *dispatched* by AEMO on the basis of its *dispatch offer*.

***constraint, constrained***

A limitation on the capability of a *network*, *load* or a *generating unit* such that it is unacceptable to either transfer, consume or generate the level of electrical power that would occur if the limitation was removed.

***consulting party***

The person who is required to comply with the *Rules consultation procedures*.

***Consumer Member***

A person appointed by *AEMO* as a *Member* to represent *small customers* in accordance with the *Rules* (including clause 7.17.10(b)).

***contestable***

- (a) In relation to *transmission services* a service which is permitted by the laws of the relevant *participating jurisdiction* to be provided by more than one *Transmission Network Service Provider* as a contestable service or on a competitive basis.
- (b) In relation to *distribution services*, a service which is permitted by the laws of the relevant *participating jurisdiction* to be provided by more than one *Distribution Network Service Provider* as a contestable service or on a competitive basis.

**Note:**

In the context of Chapter 5A, the above definition has been displaced by a definition specifically applicable to that Chapter. See clause 5A.A.1.

***contestable IUSA components***

Those components of the *identified user shared asset* that satisfy the criteria set out in clause 5.2A.4(c).

***contingency capacity reserve***

Actual *active* and *reactive energy* capacity, *interruptible load* arrangements and other arrangements organised to be available to be utilised on the actual occurrence of one or more *contingency events* to allow the restoration and maintenance of *power system security*.

***contingency capacity reserve standards***

The standards set out in the *power system security standards* to be used by *AEMO* to determine the levels of *contingency capacity reserves* necessary for *power system security*.

***contingency event***

An event described in clause 4.2.3(a).

***contingent project***

In relation to a distribution determination, a *proposed contingent project* that is determined by the *AER*, in accordance with clause 6.6A.1(b), to be a *contingent project* for the purposes of that distribution determination.

In relation to a *revenue determination*, a *proposed contingent project* that is determined by the *AER*, in accordance with clause 6A.8.1(b), to be a *contingent project* for the purposes of that *revenue determination*.

***continuous uninterrupted operation***

In respect of a *generating system* or *generating unit* operating immediately prior to a *power system* disturbance:

- (a) not *disconnecting* from the *power system* except under its *performance standards* established under clauses S5.2.5.8 and S5.2.5.9;
- (b) during the disturbance contributing active and reactive current as required by its *performance standards* established under clause S5.2.5.5;
- (c) after clearance of any electrical fault that caused the disturbance, only substantially varying its *active power* and *reactive power* as required or permitted by its *performance standards* established under clauses S5.2.5.5, S5.2.5.11, S5.2.5.13 and S5.2.5.14; and
- (d) not exacerbating or prolonging the disturbance or causing a subsequent disturbance for other *connected plant*, except as required or permitted by its *performance standards*,

with all essential auxiliary and *reactive plant* remaining in service.

***control centre***

The *facilities* used by *AEMO* for managing *power system security* and administering the *market*.

***control system***

Means of monitoring and controlling the operation of the *power system* or equipment including *generating units connected* to a *transmission* or *distribution network*.

***cooling off period***

Has the same meaning as in rule 47(2) of the *NERR*.

***Co-ordinated Universal Time (UTC)***

The time as determined by the International Bureau of Weights and Measures and maintained under section 8AA of the *National Measurement Act*.

***Co-ordinating Network Service Provider***

A *Network Service Provider* appointed by multiple *Transmission Network Service Providers* to allocate *AARR* in accordance with rule 6A.29.

### ***Cost Allocation Guidelines***

For a *Transmission Network Service Provider* – the guidelines referred to in clause 6A.19.3.

For a *Distribution Network Service Provider* – the guidelines referred to in clause 6.15.3.

### ***Cost Allocation Method***

For a *Distribution Network Service Provider*, the Cost Allocation Method approved by the AER for that *Distribution Network Service Provider* under clause 6.15.4(c) and (d) as amended from time to time in accordance with clause 6.15.4(f) and (g).

### ***Cost Allocation Methodology***

For a *Transmission Network Service Provider*, the Cost Allocation Methodology approved or taken to be approved by the AER for that *Transmission Network Service Provider* under clauses 6A.19.4(c) and (d) as amended from time to time in accordance with clauses 6A.19.4(f) and (g).

### ***Cost Allocation Principles***

For a *Transmission Network Service Provider* – the principles set out in clause 6A.19.2.

For a *Distribution Network Service Provider* – the principles set out in clause 6.15.2.

### ***cost reflective network pricing methodology or CRNP methodology***

The cost allocation methodology set out in clause S6A.3.2.

### ***CPI***

As at a particular time, the Consumer Price Index: All Groups Index Number, weighted average of eight capital cities published by the Australian Bureau of Statistics for the most recent quarter that precedes that particular time and for which the index referred to has been published by the Australian Bureau of Statistics as at that time. If that index ceases to be published or is substantially changed, *CPI* will be such other index as is determined by the AER as a suitable benchmark for recording general movements in prices.

### ***credible contingency event***

An event described in clause 4.2.3(b), certain examples of which are set out in schedule 5.1.

### ***credit support***

For the purposes of Chapter 3—an obligation owed to AEMO by a third party supporting the obligations of a *Market Participant* and having the characteristics required by clause 3.3.2.

For the purposes of Chapter 6B—a security supporting the obligations of a *retailer* to a *Distribution Network Service Provider* under Chapter 6B.

***credit support provider***

The issuing party that assumes obligations to *AEMO* pursuant to a *credit support*.

***cumulative price threshold***

The threshold for imposition of an *administered price cap* as defined in clause 3.14.1.

***current rating***

The maximum current that may be permitted to flow (under defined conditions) through a *transmission line* or *distribution line* or other item of equipment that forms part of a *power system*.

***current transformer (CT)***

A *transformer* for use with *meters* and/or protection devices in which the current in the secondary winding is, within prescribed error limits, proportional to and in phase with the current in the primary winding.

***Customer***

A person who:

1. engages in the activity of purchasing electricity *supplied* through a *transmission or distribution system* to a *connection point*; and
2. is registered by *AEMO* as a *Customer* under Chapter 2.

***customer authorised representative***

A person authorised by a *retail customer* to request and receive information under Chapter 7 on the *retail customer's* behalf.

***customer connection service***

Has (in the context of Chapter 6B) the meaning given in clause 6B.A1.2.

***Customer transmission use of system, Customer transmission use of system service***

A service provided to a *Transmission Network User* for use of the *transmission network* for the conveyance of electricity that can be reasonably allocated to a *Transmission Network User* on a locational basis, but does not include *Generator transmission use of system services*.

***date of issue***

Has (in the context of Chapter 6B) the meaning given in clause 6B.A1.2.

***day***

Unless otherwise specified, the 24 hour period beginning and ending at midnight *Eastern Standard Time (EST)*.

***declared NEM project***

A project determined to be a declared NEM project under clause 2.11.1(ba) or 2.11.1(bd), for which there is special treatment in the timing of cost recovery.

***declared network functions***

Has the meaning given in the *National Electricity Law*.

***declared shared network***

Has the meaning given in the *National Electricity Law*.

***declared transmission system***

Has the meaning given in the *National Electricity Law*.

***declared transmission system operator***

Has the meaning given in the *National Electricity Law*.

***decommission, decommit***

In respect of a *generating unit*, ceasing to generate and *disconnecting* from a *network*.

***dedicated connection asset***

The apparatus, equipment, plant and buildings that:

- (a) are used for the purpose of *connecting* an *identified user group* to an existing *transmission network*;
- (b) are used exclusively by the *identified user group*;
- (c) can be electrically isolated from the *transmission network* without affecting the provision of *shared transmission services* to persons who are not members of the *identified user group*; and
- (d) are not:
  - (1) *network connection assets*;
  - (2) part of a *generating system*;
  - (3) part of a *distribution system*;
  - (4) part of a *transmission system* for which a *Market Network Service Provider* is registered under Chapter 2;

- (5) part of a *Transmission Customer's facility* that utilises electrical energy; or
- (6) part of the *declared transmission system* of an *adoptive jurisdiction*.

**Note**

Where a *Primary Transmission Network Service Provider* is registered in respect of a *dedicated connection asset* operating at *distribution voltage*, it will not be a *distribution system* and will constitute part of its *transmission system* for which it is registered. See definitions of *distribution system* and *transmission system*.

***Dedicated Connection Asset Service Provider***

A *Transmission Network Service Provider* to the extent that its *transmission system* or any part of it is classified as a *dedicated connection asset* in accordance with Chapter 2.

***default dispatch bid***

A *dispatch bid* made pursuant to clause 3.8.9.

***default dispatch offer***

A *dispatch offer* made pursuant to clause 3.8.9.

***default event***

An event defined as such in clause 3.15.21(a).

***default notice***

A notice issued by AEMO pursuant to clause 3.15.21(b)(1).

***default rate***

Has (in the context of Chapter 6B) the meaning given in clause 6B.A1.2.

***defaulting Market Participant***

A *Market Participant* in relation to which a *default event* has occurred.

***delayed lower service***

The service of providing, in accordance with the *market ancillary service specification*, the capability of controlling the level of *generation* or *load* associated with a particular *facility* in response to a change in the *frequency* of the *power system* beyond a threshold or in accordance with electronic signals from AEMO in order to lower that *frequency* to within the *normal operating frequency band*.

***delayed raise service***

The service of providing, in accordance with the *market ancillary service specification*, the capability of controlling the level of *generation* or *load* associated with a particular *facility* in response to a change in the *frequency* of the

*power system* beyond a threshold or in accordance with electronic signals from AEMO in order to raise that *frequency* to within the *normal operating frequency band*.

***delayed response capacity reserve***

That part of the *contingency capacity reserve* capable of realisation within 5 minutes of a major *frequency* decline in the *power system* as described further in the *power system security standards*.

***delayed service***

A *delayed raise service* or a *delayed lower service*.

***demand based price***

A price expressed in dollars per kilowatt per time period or dollars per kilovolt ampere per time period.

***demand management incentive scheme***

A scheme developed and *published* by the AER under clause 6.6.3.

***demand management incentive scheme objective***

Has the meaning given to it by clause 6.6.3(b).

***demand management innovation allowance mechanism***

A mechanism developed and *published* by the AER under clause 6.6.3A.

***demand management innovation allowance objective***

Has the meaning given to it by clause 6.6.3A(b).

***deprival value***

A value ascribed to assets which is the lower of economic value or optimised depreciated replacement value.

***designated pricing proposal charges***

Any of the following:

- (a) charges for *designated pricing proposal services*;
- (b) *avoided Customer TUOS charges*;
- (c) charges for *distribution services* provided by another *Distribution Network Service Provider*, but only to the extent those charges comprise:
  - (1) charges incurred by that *Distribution Network Service Provider* for *designated pricing proposal services*; or
  - (2) charges for *standard control services*;



- (d) charges or payments specified in rule 11.39.

***designated pricing proposal services***

Any of the following services:

- (a) *prescribed exit services*;
- (b) *prescribed common transmission services*; and
- (c) *prescribed TUOS services*.

***de-synchronising/de-synchronisation***

The act of *disconnection* of a *generating unit* from the *connection point* with the *power system*, normally under controlled circumstances.

***direct control service***

A *distribution service* that is a direct control network service within the meaning of section 2B of the Law.

***Directed Participant***

A *Scheduled Generator*, *Semi-Scheduled Generator*, *Market Generator*, *Market Ancillary Service Provider*, *Scheduled Network Service Provider* or *Market Customer* the subject of a *direction*.

***direction***

Has the meaning given in clause 4.8.9(a1)(1).

***directional interconnector***

Has the meaning given in clause 3.18.1(c).

***Disclosee***

In relation to a *Registered Participant*, a person to whom that *Registered Participant* discloses *confidential information*.

***disconnect, disconnected, disconnection***

The operation of switching equipment or other action so as to prevent the flow of electricity at a *connection point*.

***Discretionary Member***

A person appointed as a *Member* by AEMO to represent a class or classes of persons who have an interest in the *B2B Procedures* in accordance with the *Rules* (including clause 7.17.10(d)).

***dispatch***

The act of initiating or enabling all or part of the response specified in a *dispatch bid*, *dispatch offer* or *market ancillary service offer* in respect of a *scheduled generating unit*, *semi-scheduled generating unit*, a *scheduled load*, a *scheduled network service*, an *ancillary service generating unit* or an *ancillary service load* 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 algorithm***

The algorithm used to determine *central dispatch* developed by AEMO in accordance with clause 3.8.1(d).

***dispatch bid***

A notice submitted by a *Market Participant* to AEMO relating to the *dispatch* of a *scheduled load* in accordance with clause 3.8.7.

***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 loads* or *scheduled generating units* which are not *slow start generating units*.

***dispatch instruction***

An instruction given to a *Registered Participant* under clauses 4.9.2, 4.9.2A, 4.9.3, 4.9.3A, or to an *NMAS provider* under clause 4.9.3A.

***dispatch interval***

A period defined in clause 3.8.21(a1) in which the *dispatch algorithm* is run in accordance with clause 3.8.21(b).

***dispatch level***

Means:

- (1) for a *semi-dispatch interval*, the amount of electricity specified in a *dispatch instruction* as the *semi-scheduled generating unit's* maximum permissible *active power* at the end of the *dispatch interval* specified in the *dispatch instruction*; and
- (2) for a *non semi-dispatch interval*, an estimate of the *active power* at the end of the *dispatch interval* specified in the *dispatch instruction*.

***dispatch offer***

A *generation dispatch offer* or a *network dispatch offer*.

***dispatch offer price***

The price submitted by a *Scheduled Generator*, *Semi-Scheduled Generator* or a *Scheduled Network Service Provider* for a *price band* and a *trading interval* in a *dispatch offer*.

***dispatch price***

The price determined for each *regional reference node* by the *dispatch algorithm* each time it is run by AEMO.

***dispatchable unit identifier***

An unique reference label allocated by AEMO for each *scheduled generating unit*, *semi-scheduled generating unit*, *scheduled load*, and *scheduled network service*.

***dispatched generating unit***

A *scheduled generating unit* which has received instructions from AEMO in accordance with a *dispatch schedule*.

***dispatched generation***

The *generation* which has been *dispatched* as part of *central dispatch*.

***dispatched Generator***

A *Generator* who has received a *dispatch instruction* from AEMO.

***dispatched load***

The *load* which has been *dispatched* as part of *central dispatch*.

***dispute management system***

The dispute management system which each *Registered Participant* and AEMO must adopt in accordance with clause 8.2.3.

***dispute resolution panel***

A dispute resolution panel established pursuant to clause 8.2.6A.

***distribution***

Activities pertaining to a *distribution system* including the conveyance of electricity through that *distribution system*.

***Distribution Annual Planning Report***

A report prepared by a *Distribution Network Service Provider* under clause 5.13.2.

***Distribution Confidentiality Guidelines***

Guidelines made by the AER under clause 6.14A.

***distribution connection assets***

Those components of the *distribution system* which are used to provide *connection services* to a *Distribution Network User* or a group of *Distribution Network Users* or a *Network Service Provider* or a group of *Network Service Providers*.

***distribution consultation procedures***

The procedures set out in Part G of Chapter 6.

***Distribution Customer***

A *Customer*, *Distribution Network Service Provider*, *Non-Registered Customer*, *franchise customer*, or *retail customer* having a *connection point* with a *distribution network*.

***distribution line***

A power line, including underground cables, that is part of a *distribution network*.

***distribution loss factor***

An *average loss factor* calculated according to clause 3.6.3.

***distribution losses***

*Electrical energy losses* incurred in distributing electricity over a *distribution network*.

***distribution network***

A *network* which is not a *transmission network*.

***distribution network connection point***

A *connection point* on a *distribution network*.

***Distribution Network Service Provider***

A person who engages in the activity of owning, controlling, or operating a *distribution system*.

***Distribution Network Service Provider Member***

A person nominated and elected as a *Member* by *Distribution Network Service Providers* to represent *Distribution Network Service Providers* in accordance with the *Rules* (including clause 7.17.10(e)) and *Information Exchange Committee Election Procedures*.

***Distribution Network User***

A *Distribution Customer* or an *Embedded Generator*.

***distribution network user access***

The *power transfer capability* of the *distribution network* in respect of:

- (a) *generating units* or a group of *generating units*; and
- (b) *network elements*,

at a *connection point* which has been negotiated in accordance with rule 5.5.

***Distribution Reliability Measures Guidelines***

Guidelines made by the AER under clause 6.28.

***Distribution Ring-Fencing Guidelines***

The guidelines developed by the AER under clause 6.17.2.

***distribution service***

A service provided by means of, or in connection with, a *distribution system*.

***distribution services access dispute***

A dispute referred to in clause 6.22.1.

***Distribution Service Classification Guidelines***

Guidelines developed, maintained and *published* by the AER under clause 6.2.3A.

***distribution standard control service revenue***

Has the meaning given in rule 6.26(b)(2).

***distribution system***

A *distribution network*, together with the *connection assets* associated with the *distribution network*, which is *connected* to another *transmission or distribution system*.

*Connection assets* on their own, and *dedicated connection assets* in respect of which a *Primary Transmission Network Services Provider* is registered, do not constitute a *distribution system*.

***Distribution System Operator***

A person who is responsible, under the *Rules* or otherwise, for controlling or operating any portion of a *distribution system* (including being responsible for directing its operations during *power system* emergencies) and who is registered by AEMO as a *Distribution System Operator* under Chapter 2.

***distribution use of system, distribution use of system service***

A service provided to a *Distribution Network User* for use of the *distribution network* for the conveyance of electricity that can be reasonably allocated on a locational and/or *voltage* basis.

***DMS***

A *dispute management system*.

***DMS Contact***

A person appointed by a *Registered Participant* or *AEMO* pursuant to its *DMS* to be the first point of contact for the notification of disputes under clause 8.2.

***DMS referral notice***

A notice served on a *DMS Contact* pursuant to clause 8.2.4(a).

***DRP***

A *dispute resolution panel*.

***dual function asset***

Means any part of a *network* owned, operated or controlled by a *Distribution Network Service Provider* which operates between 66 kV and 220 kV and which operates in parallel, and provides support, to the higher voltage *transmission network* which is deemed by clause 6.24.2(a) to be a *dual function asset*. For the avoidance of doubt:

- (a) a *dual function asset* can only be an asset which forms part of a *network* that is predominantly a *distribution network*; and
- (b) an asset which forms part of a *network* which is predominantly a *transmission network* cannot be characterised as a *dual function asset*,

through the operation of clause 6.24.2(a).

***due date for payment***

Has (in the context of Chapter 6B) the meaning given in clause 6B.A1.2.

***dynamic performance***

The response and behaviour of *networks* and *facilities* which are *connected* to the *networks* when the *satisfactory operating state* of the *power system* is disturbed.

***EAAP guidelines***

The guidelines *published* by *AEMO* in accordance with clause 3.7C(k) that *AEMO* must comply with in preparing the *EAAP*.

***EAAP principles***

The principles referred to in clause 3.7C(b) that *AEMO* must comply with in preparing the *EAAP* and the *EAAP guidelines*.

***Eastern Standard Time (EST)***

The time which is set at 10 hours in advance of *Co-ordinated Universal Time*.

***EFCS settings schedule***

The schedules developed by *AEMO* for each *participating jurisdiction* in accordance with clause 4.3.2(h)(2) specifying the settings for *emergency frequency control schemes* affecting *regions* in the *participating jurisdiction*.

***efficiency benefit sharing scheme***

For a *Transmission Network Service Provider* – a scheme developed and published by the *AER* under clause 6A.5.

For a *Distribution Network Service Provider* – a scheme developed and published by the *AER* under clause 6.5.8.

***efficiency benefit sharing scheme parameters***

For an *efficiency benefit sharing scheme*, those parameters that are published by the *AER* in respect of that scheme pursuant to clause 6A.6.5(c).

***electrical energy loss***

*Energy* loss incurred in the production, transportation and/or use of electricity.

***electrical sub-network***

A part of the *national grid* determined by *AEMO* in accordance with clause 3.11.8.

***Electricity Procedures***

Procedures made under these *Rules* including:

- (a) *Retail Market Procedures*; and
- (b) procedures governing the operation of the *National Electricity Market*; and
- (c) *RoLR procedures* for electricity; and
- (d) procedures dealing with any other subject on which these *Rules* empower the making of procedures.

***electronic communication system***

Includes the electronic communication and the *electronic data transfer* system provided to *Registered Participants* by *AEMO*.

***electronic data transfer***

The transfer of data by electronic means from one location to another.

***eligible pass through amount***

In respect of a *positive change event* for a *Transmission Network Service Provider*, the increase in costs in the provision of *prescribed transmission services* that, as a result of that *positive change event*, the *Transmission Network Service Provider* has incurred and is likely to incur (as opposed to the revenue impact of that event) until:

- (a) unless paragraph(b) applies – the end of the *regulatory control period* in which the *positive change event* occurred; or
- (b) if the *transmission determination* for the *regulatory control period* following that in which the *positive change event* occurred does not make any allowance for the recovery of that increase in costs (whether or not in the forecast operating expenditure or forecast capital expenditure accepted or substituted by the AER for that *regulatory control period*) – the end of the *regulatory control period* following that in which the *positive change event* occurred.

In respect of a *positive change event* for a *Distribution Network Service Provider*, the increase in costs in the provision of *direct control services* that, as a result of that *positive change event*, the *Distribution Network Service Provider* has incurred and is likely to incur (as opposed to the revenue impact of that event) until:

- (a) unless paragraph(b) applies – the end of the *regulatory control period* in which the *positive change event* occurred; or
- (b) if the distribution determination for the *regulatory control period* following that in which the *positive change event* occurred does not make any allowance for the recovery of that increase in costs (whether or not in the forecast operating expenditure or forecast capital expenditure accepted or substituted by the AER for that *regulatory control period*) – the end of the *regulatory control period* following that in which the *positive change event* occurred.

***eligible person***

Has the meaning given in clause 3.18.2(b).

***embedded generating unit***

A *generating unit* connected within a *distribution network* and not having direct access to the *transmission network*.

***Embedded Generator***

A *Generator* who owns, operates or controls an *embedded generating unit*.



**Note:**

In the context of Chapter 5A, the above definition has been displaced by the definition "embedded generator" specifically applicable to that Chapter. See clause 5A.A.1.

***embedded network***

A *distribution system*, connected at a *parent connection point* to either a *distribution system* or *transmission system* that forms part of the *national grid*, and which is owned, controlled or operated by a person who is not a *Network Service Provider*.

***embedded network management services***

Services that involve carrying out the roles, discharging the responsibilities and complying with the obligations of an *Embedded Network Manager* under the *Rules* and procedures authorised under the *Rules*.

***Embedded Network Manager***

A person:

- (a) who meets the requirements listed in schedule 7.7 and has been accredited and registered by *AEMO* as an *Embedded Network Manager*; and
- (b) who has not been deregistered by *AEMO* as an *Embedded Network Manager* under clause 7.4.4(d).

***emergency frequency control scheme***

*Facilities* for initiating automatic *load shedding* or automatic *generation shedding* to prevent or arrest uncontrolled increases or decreases in *frequency* (alone or in combination) leading to *cascading outages* or *major supply disruptions*.

***emergency priority procedures***

The procedures developed and *published* by *AEMO* in accordance with clause 7.8.5(b).

***emission factor***

The factor representing the amount of greenhouse gas emissions per unit of electricity (t CO<sub>2</sub>-e/MWh) of energy produced by each *power station*.

***enabled, enable***

A *market ancillary service* is enabled when *AEMO* has selected the relevant *generating unit* or *load* for the provision of the *market ancillary service* and has notified the relevant *Market Participant* accordingly.

An *inertia network service* is enabled when *AEMO* has selected the relevant *inertia network service* and the service is providing *inertia* to an *inertia sub-network*.

An activity approved by *AEMO* under clause 5.20B.5(a) is enabled when *AEMO* has selected the relevant activity and the activity is performing and available in accordance with any conditions of that approval.

A *system strength service* is enabled when *AEMO* has selected the relevant *system strength service* and the service is contributing to the *three phase fault level* at the relevant *fault level node*.

***enablement limit***

In relation to any *market ancillary service offer*, the level of associated *generation* or *load* (in MW) above or below which no response is specified as being available.

***enabling price***

Has the meaning given in clause 3.8.7A(d).

***energise/energisation***

The act of operation of switching equipment or the start-up of a *generating unit*, which results in there being a non-zero *voltage* beyond a *connection point* or part of the *transmission* or *distribution network*.

***energy***

*Active energy* and/or *reactive energy*.

***energy adequacy assessment projection (EAAP)***

A projection of *AEMO*'s assessment of *energy* availability that accounts for *energy constraints* for each month over a 24 month period, which is prepared and published in accordance with rule 3.7C and is measured as *unserved energy* for each *region*.

***energy based price***

A price expressed in cents per kilowatt hour of *energy*.

***energy constrained scheduled generating unit***

A *scheduled generating unit* in respect of which the amount of electricity it is capable of *supplying* on a *trading day* is less than the amount of electricity it would *supply* on that *trading day* if it were *dispatched* to its full nominated availability for the whole *trading day*.

***energy constrained scheduled load***

A *scheduled load* in respect of which the amount of electricity it can take in a *trading day*, if *normally off*, or it can *off-load*, if *normally on*, is *constrained*.

***energy constraint***

A limitation on the ability of a *generating unit* or group of *generating units* to generate *active power* due to the restrictions in the availability of fuel or other

necessary expendable resources such as, but not limited to, gas, coal, or water for operating turbines or for cooling.

***energy conversion model***

The model that defines how the *intermittent* input energy source (such as wind) is converted by the *semi-scheduled generating unit* into electrical output. That model must contain the information set out in the guidelines published by AEMO in accordance with clause 2.2.7(d).

***energy data***

*Interval energy data* or *accumulated energy data*.

***energy laws***

Has the meaning given in section 2(1) of the *NERL*

***energy ombudsman***

Has the same meaning as in the *NERL*.

***energy support arrangement***

A contractual arrangement between a *Generator* or *Network Service Provider* on the one hand, and a customer or *participating jurisdiction* on the other, under which *facilities* not subject to an *ancillary services agreement* for the provision of *system restart ancillary services* are used to assist *supply* to a customer during a *major supply disruption* affecting that customer, or customers generally in the *participating jurisdictions*, as the case may be.

***ENM conditions***

An *Exempt Embedded Network Service Provider* must:

- (a) act as the *Embedded Network Manager* for the relevant *embedded network*; or
- (b) engage an *Embedded Network Manager* to provide *embedded network management services* for the relevant *embedded network*; and
- (c) enter into an agreement with an *Embedded Network Manager* for the provision of *embedded network management services* where that person has engaged an *Embedded Network Manager* under paragraph (b).

***ENM conditions trigger***

In relation to a *small customer*, when the *small customer* enters a *market retail contract* for the sale of energy at the relevant *child connection point* and the *cooling off period* in relation to that contract has expired.

In relation to a *large customer*, when the *large customer* has entered a contract for the sale of energy at the relevant *child connection point*.

***ENM service level procedures***

The procedures established by *AEMO* in accordance with clause 7.16.6A.

***enquiry***

Has (in the context of Chapter 5A) the meaning given in clause 5A.A.1

***entry charge***

The charge payable by an *Embedded Generator* to a *Distribution Network Service Provider* for an *entry service* at a *distribution network connection point*.

***entry cost***

For each *distribution network connection point*, the amount of the *aggregate annual revenue requirement* for all individual assets classified as *entry service* assets which provide *entry service* for the *connection point*.

***entry service***

A service provided to serve a *Generator* or a group of *Generators*, or a *Network Service Provider* or a group of *Network Service Providers*, at a single *connection point*.

***EN wiring information***

Panel layouts and wiring diagrams relevant to an *embedded network*.

***estimated metering data***

The estimated values of *accumulated metering data*, *interval metering data* or *calculated metering data* that have been prepared in accordance with the *metrology procedure*. *Estimated metering data* is held in a *metering data services database* and the *metering database*.

***excitation control system***

In relation to a *generating unit*, the automatic *control system* that provides the field excitation for the generator of the *generating unit* (including excitation limiting devices and any *power system stabiliser*).

***Exempt Embedded Network Service Provider***

A person who engages in the activity of owning, controlling or operating an *embedded network* under an exemption granted or deemed to be granted by the *AER* under section 13 of the *National Electricity Law* and clause 2.5.1(d).

***exemption application***

Has the meaning given in clause 6.4B.2(a).

***exit charge***

The charge payable by a *Distribution Customer* to a *Distribution Network Service Provider* for *exit service* at a *distribution network connection point*.

***exit cost***

For each *distribution network connection point*, the amount of the *aggregate annual revenue requirement* for all individual assets classified as *exit service* assets which provide *exit service* for the *connection point*.

***exit service***

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 a single *connection point*.

***expected closure year***

Has the meaning given in clause 2.2.1(e)(2A).

***expenditure for a restricted asset***

Capital expenditure for a *restricted asset*, excluding capital expenditure for the refurbishment of that asset.

***Expenditure Forecast Assessment Guidelines***

Guidelines made by the AER under clause 6.4.5(a) or clause 6A.5.6(a), as the case may be.

***extension***

An *augmentation* that requires the *connection* of a power line or *facility* outside the present boundaries of the *transmission* or *distribution network* owned, controlled or operated by a *Network Service Provider*.

***external administration default event***

A *default event* of a type referred to in subparagraphs 3.15.21(a)(10) or (11).

***extreme frequency excursion tolerance limits***

In relation to the *frequency* of the *power system*, means the limits so described and specified in the *power system security standards*.

***facilities***

A generic term associated with the apparatus, equipment, buildings and necessary associated supporting resources provided at, typically:

- (a) a *power station* or *generating unit*;
- (b) a *substation* or *power station switchyard*;

- (c) a *control centre* (being a *AEMO control centre*, or a *distribution or transmission network control centre*);
- (d) facilities providing an *exit service*.

***failed retailer***

Has the meaning given in the *National Energy Retail Law*.

***fast lower service***

The service of providing, in accordance with the requirements of the *market ancillary service specification*, the capability of rapidly controlling the level of *generation* or *load* associated with a particular *facility* in response to the locally sensed *frequency* of the *power system* in order to arrest a rise in that *frequency*.

***fast raise service***

The service of providing, in accordance with the requirements of the *market ancillary service specification*, the capability of rapidly controlling the level of *generation* or *load* associated with a particular *facility* in response to the locally sensed *frequency* of the *power system* in order to arrest a fall in that *frequency*.

***fault clearance time***

In respect of a *fault type*, the time within which the *protection system* is designed, operated and maintained to clear a *short circuit fault* of that *fault type* within its protection zone.

***fault level node***

A location on a *transmission network* that *AEMO* determines is a *fault level node* in its determination of *system strength requirements* under clause 5.20C.1(a).

***fault level shortfall***

A shortfall in the *three phase fault level* typically provided at a *fault level node* in a *region* (having regard to typical patterns of *dispatched generation* in *central dispatch*) compared to the minimum *three phase fault level* most recently determined by *AEMO* for the *fault level node*.

***fault level shortfall event***

A *Transmission Network Service Provider* is required to make *system strength services* available under clause 5.20C.3 as a consequence of an assessment by *AEMO* under clause 5.20C.2(c) that there is a *fault level shortfall* at a *fault level node* in a *region* for which the *Transmission Network Service Provider* is the *System Strength Service Provider* or to cease making *system strength services* available under clause 5.20C.3 as a consequence of an assessment by *AEMO* under clause 5.20C.2(d) that a *fault level shortfall* at a *fault level node* has ceased and:

- (a) the *Transmission Network Service Provider* is required to provide, or cease providing, *system strength services* during the course of a *regulatory control period*; and
- (b) making *system strength services* available or ceasing to make *system strength services* available *materially* increases or *materially* decreases the *Transmission Network Service Provider's* costs of providing *prescribed transmission services*.

***fault type***

One of the following types of electrical fault:

- (a) three phase to ground fault;
- (b) three phase fault;
- (c) two phase to ground fault;
- (d) phase to phase fault; and
- (e) one phase to ground fault.

***final statement***

A statement issued by *AEMO* under clause 3.15.15 to a *Market Participant*.

***financial year***

A period commencing on 1 July in one calendar year and terminating on 30 June in the following calendar year.

***financially responsible***

In relation to any *market connection point*, a term which is used to describe the *Market Participant* which has either:

1. classified the *connection point* as one of its *market loads*;
2. classified the *generating unit connected* at that *connection point* as a *market generating unit*; or
3. classified the *network services* at that *connection point* as a *market network service*.

***First-Tier Customer***

A *Customer* which has classified any *load* as a *first-tier load* in accordance with Chapter 2.

***first-tier load***

Electricity purchased at a *connection point* directly and in its entirety from the *Local Retailer* and which is classified as a *first-tier load* in accordance with Chapter 2.

***former Chapter 6A***

Chapter 6A of the *Rules* as in force immediately prior to the commencement of Schedules 1, 2, 4, 5 and 6 of the *National Electricity Amendment (Transmission Connection and Planning Arrangements) Rule 2017 No.4* and which is applicable for a *declared transmission system* of an *adoptive jurisdiction* under clause 11.98.8, as amended from time to time.

***framework and approach paper***

A document prepared and issued as a framework and approach paper under clause 6.8.1.

***franchise customer***

A person who does not meet its local jurisdiction requirements to make it eligible to be registered by *AEMO* as a *Customer* for a *load*.

***frequency***

For alternating current electricity, the number of cycles occurring in each second. The term Hertz (Hz) corresponds to cycles per second.

***frequency operating standard***

The standards which specify the *frequency* levels for the operation of the *power system* set out in the *power system security standards*.

***frequency response mode***

The mode of operation of a *generating unit* which allows automatic changes to the generated power when the *frequency* of the *power system* changes.

***fully co-optimised network constraint formulation***

A *network constraint* equation formulation that allows *AEMO*, through direct physical representation, to control all the variables within the equation that can be determined through the *central dispatch* process. Some variables may not be included in accordance with clause 3.8.10(c) of the *Rules* if control of such variables would not materially enhance the security of the *power system* due to the small size of their coefficients.

***funded augmentation***

A *transmission network augmentation* for which the *Transmission Network Service Provider* is not entitled to receive a charge pursuant to Chapter 6A.



***GELF parameters***

Variable parameters specific to a *Generator Energy Limitation Framework (GELF)* which are defined in the *EAAP guidelines* and supplement the *GELF*, and are submitted by a *Scheduled Generator* and updated in accordance with rule 3.7C for the purpose of the *EAAP*.

***general regulatory information order***

Has the meaning given in the *National Electricity Law*.

***generated***

In relation to a *generating unit*, the amount of electricity produced by the *generating unit* as measured at its terminals.

***generating plant***

In relation to a *connection point*, includes all equipment involved in generating electrical *energy*.

***generating system***

- (a) Subject to paragraph (b), for the purposes of the *Rules*, a system comprising one or more *generating units*.
- (b) For the purposes of clause 2.2.1(e)(3), clause 4.9.2, Chapter 5 and a *jurisdictional derogation* from Chapter 5, a system comprising one or more *generating units* 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*.

***generating unit***

The plant used in the production of electricity and all related equipment essential to its functioning as a single entity.

***generating unit minimum ramp rate requirement***

- (a) in relation to a *generating unit* that has not been aggregated in accordance with clause 3.8.3, the lower of 3MW/minute or 3% of the maximum *generation* provided in accordance with clause 3.13.3(b); or
- (b) in relation to a *generating unit* that has been aggregated in accordance with clause 3.8.3, the lower of 3 MW/minute or 3% of the maximum *generation* provided in accordance with clause 3.13.3(b1),

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 generating unit minimum ramp rate requirement is 1 MW/minute.

***generation***

The production of electrical power by converting another form of energy in a *generating unit*.

***generation centre***

A geographically concentrated area containing a *generating unit* or *generating units* with significant combined generating capability.

***generation dispatch offer***

A notice submitted by a *Scheduled Generator* or *Semi-Scheduled Generator* to AEMO relating to the *dispatch* of a *scheduled generating unit* or a *semi-scheduled generating unit* in accordance with clause 3.8.6.

***generation shedding***

*Disconnecting*, or reducing the transfer of *active power* to the *power system* from, one or more *generating systems* or *generating units*.

***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* or *distribution system* and who is registered by AEMO as a *Generator* 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 is a non-registered embedded generator (as defined in clause 5A.A.1) who has made an election under clause 5A.A.2(c).

***Generator Energy Limitation Framework (GELF)***

A description of the *energy constraints* that affect the ability of a *scheduled generating unit* to generate electricity prepared in accordance with the *EAAP guidelines*.

***Generator transmission use of system, Generator transmission use of system service***

A service provided to a *Generator* for:

- (a) **[Deleted]**
- (b) use of a *transmission investment* for the conveyance of electricity that can be reasonably allocated to a *Generator* on a locational basis.

***global market ancillary service requirement***

Has the meaning given to it by clause 3.8.1(e2).

***good electricity industry practice***

The exercise of that degree of skill, diligence, prudence and foresight that reasonably would be expected from a significant proportion of operators of

*facilities* forming part of the *power system* for the *generation, transmission* or *supply* of electricity under conditions comparable to those applicable to the relevant *facility* consistent with *applicable regulatory instruments, reliability, safety* and environmental protection. The determination of comparable conditions is to take into account factors such as the relative size, duty, age and technological status of the relevant *facility* and the *applicable regulatory instruments*.

***high voltage (HV)***

A voltage greater than 1 kV.

***identified need***

The objective a *Network Service Provider* (or in the case of a need identified through joint planning under clause 5.14.1(d)(3) or clause 5.14.2(a), or clause 5.14.3(a), a group of *Network Service Providers*) seeks to achieve by investing in the *network*.

***identified user group***

One or more persons (other than a *Network Service Provider* who is not a *Market Network Service Provider*) who, from time to time, are *connected* to a *transmission network* at the same single *connection point*.

***identified user shared asset***

The apparatus, equipment, plant and buildings that:

- (a) are used for the purpose of *connecting* one or more *identified user groups* to an existing *transmission network*;
- (b) are not used exclusively by the relevant *identified user groups*;
- (c) under normal operating conditions, cannot be electrically isolated from the *transmission network* without affecting the provision of *shared transmission services* to persons who are not members of the relevant *identified user groups*; and
- (d) are not part of the *declared transmission system* of an *adoptive jurisdiction*.

***Incoming Retailer***

A *retailer* that:

- (a) has a contract with a customer at a *connection point*; and
- (b) has initiated the customer transfer process in accordance with the *Market Settlement and Transfer Solution Procedures*,

but which is not yet designated the *financially responsible Market Participant* for that *connection point*.

***Independent Engineer***

A person appointed under rule 5.4.

***independent person***

A person who:

- (a) is not a member, employee or member of staff of the *AER* or the *AEMC*;
- (b) is not a director or employee of *AEMO*;
- (c) is not a director or employee of, or partner in, a *Registered Participant*;
- (d) does not have a direct or indirect financial interest (whether as shareholder, partner or other equity participant) in any *Registered Participant* or a *related body corporate* of any *Registered Participant*, other than an interest of less than 0.1% of the net shareholders funds of that entity (as determined at the date the relevant person is appointed to carry out a function under the *Rules*); or
- (e) is not a director or employee of a *related body corporate* of any *Registered Participant*.

***independently controllable two-terminal link***

A *two-terminal link* through which the *power transfer* can be independently controlled within a range determined by the *power transfer capability* of the *two-terminal link* and the conditions prevailing in the rest of the *power system*.

***indexed amount***

As at any time and in relation to a dollar value that is expressly set out in Part C of Chapter 6 or Part C of Chapter 6A, that dollar value multiplied by  $CPI_a/CPI_b$

where:

$CPI_a$  is the *CPI* as at that time; and

$CPI_b$  is the Consumer Price Index: All Groups Index Number, weighted average of eight capital cities published by the Australian Bureau of Statistics for the quarter ending 30 June 2006.

***indicative pricing schedule***

For a *Distribution Network Service Provider*, means the schedule of indicative price levels as referred to in paragraph 6.18.1A(e).

***inertia***

Contribution to the capability of the *power system* to resist changes in *frequency* by means of an inertial response from a *generating unit*, *network element* or other equipment that is electro-magnetically coupled with the *power system* and *synchronised* to the *frequency* of the *power system*.

***inertia generating unit***

A *generating unit* registered with AEMO under clause 5.20B.6(b).

***inertia network service***

A service for the provision of *inertia* to a *transmission system*.

***inertia requirements***

The *minimum threshold level of inertia* and the *secure operating level of inertia* for an *inertia sub-network* determined by AEMO under clause 5.20B.2(a).

***inertia requirements methodology***

The process AEMO uses to determine the *inertia requirements* for each *inertia sub-network*, published by AEMO under clause 5.20.1(a)(3).

***inertia service payment***

A payment by a *Transmission Network Service Provider* made under an *inertia services agreement* where:

- (a) the payment is made for *inertia network services* or *inertia support activities* to be made available or provided as a service to the *Transmission Network Service Provider* in its capacity as an *Inertia Service Provider* to (in the case of *inertia network services*) satisfy an obligation under clause 5.20B.4 or (in the case of *inertia support activities*) resulting in an adjustment to the *minimum threshold level of inertia* or the *secure operating level of inertia*; and
- (b) the *inertia network services* are made available or provided, or the *inertia support activity* is undertaken, in accordance with:
  - (1) applicable technical specifications and performance standards approved by AEMO; and
  - (2) in the case of an *inertia support activity*, any conditions of AEMO's approval under clause 5.20B.5(a).

***Inertia Service Provider***

The *Inertia Service Provider* for an *inertia sub-network* as specified under clause 5.20B.4(a).

***inertia services agreement***

An agreement under which a person agrees to provide one or more *inertia network services* to an *Inertia Service Provider* or to undertake an *inertia support activity*.

***inertia shortfall***

A shortfall in the level of *inertia* typically provided in an *inertia sub-network* (having regard to typical patterns of *dispatched generation* in *central dispatch*) compared to the *secure operating level of inertia* most recently determined by AEMO for the *inertia sub-network*.

***inertia shortfall event***

A *Transmission Network Service Provider* is required to make *inertia network services* available under clause 5.20B.4 as a consequence of an assessment by AEMO under clause 5.20B.3(c) that there is an *inertia shortfall* in an *inertia sub-network* for which the *Transmission Network Service Provider* is the *Inertia Service Provider* or to cease making *inertia network services* available under clause 5.20B.4 as a consequence of an assessment by AEMO under clause 5.20B.3(d) that an *inertia shortfall* in the *inertia sub-network* has ceased and:

- (a) the *Transmission Network Service Provider* is required to provide, or cease providing, *inertia network services* during the course of a *regulatory control period*; and
- (b) making *inertia network services* available or ceasing to make *inertia network services* available *materially* increases or *materially* decreases the *Transmission Network Service Provider's* costs of providing *prescribed transmission services*.

***inertia sub-network***

A part of the *national grid* determined by AEMO in accordance with clause 5.20B.1.

***inertia support activity***

An activity approved by AEMO under clause 5.20B.5(a).

***inflexible, inflexibility***

In respect of a *scheduled generating unit*, *scheduled load* or *scheduled network service* for a *trading interval* means that the *scheduled generating unit*, *scheduled load* or *scheduled network service* is only able to be *dispatched* in the *trading interval* at a fixed *loading level* specified in accordance with clause 3.8.19(a).

***Information Exchange Committee***

The committee established under clause 7.17.6(a).

***Information Exchange Committee Annual Report***

The annual report prepared by the *Information Exchange Committee* in accordance with the *Information Exchange Committee Operating Manual* and the *Rules*.

### ***Information Exchange Committee Election Procedures***

The procedures of that title which set out the process for election of *Members*.

### ***Information Exchange Committee Operating Manual***

The manual of that title prepared by the *Information Exchange Committee* which sets out the processes pursuant to which the *Information Exchange Committee* operates.

### ***Information Exchange Committee Recommendation***

- (a) For the purposes of Chapter 8 and any applicable definitions, a decision made by the *Information Exchange Committee* under clauses 7.17.4(n)(1) or 7.17.4(n)(2).
- (b) Otherwise, a decision made by the *Information Exchange Committee* under clause 7.17.4(n)(2).

### ***Information Exchange Committee Working Groups***

The groups established by the *Information Exchange Committee* to assist with the *Information Exchange Committee Works Programme*.

### ***Information Exchange Committee Works Programme***

The work programme prepared by the *Information Exchange Committee* in respect of the development, implementation and operation of the *B2B Procedures* and other matters which are incidental to effective and efficient *B2B Communications*.

### ***information guidelines***

Guidelines made by the *AER* for the purpose of guiding a *Transmission Network Service Provider* in the submission of certified annual statements and other related information in accordance with clause 6A.17.2.

### ***insolvency official***

A receiver, receiver and manager, administrator, provisional liquidator, liquidator, trustee in bankruptcy or person having a similar or analogous function.

### ***instrument transformer***

Either a *current transformer (CT)* or a *voltage transformer (VT)*.

### ***insurance event***

An event for which the risk of its occurrence is the subject of insurance taken out by or for a *Transmission Network Service Provider*, for which an allowance is provided in the *total revenue cap* for the *Transmission Network Service Provider* and in respect of which:

- (a) the cost of the premium paid or required to be paid by the *Transmission Network Service Provider* in the *regulatory year* in which the cost of the

premium changes is higher or lower than the premium that is provided for in the *maximum allowed revenue* for the provider for that *regulatory year* by an amount of more than 1% of the *maximum allowed revenue* for the provider for that *regulatory year*;

- (b) the risk eventuates and, as a consequence, the *Transmission Network Service Provider* incurs or will incur all or part of a deductible where the amount so incurred or to be so incurred in a *regulatory year* is higher or lower than the allowance for the deductible (if any) that is provided for in the *maximum allowed revenue* for the provider for that *regulatory year* by an amount of more than 1% of the *maximum allowed revenue* for the provider for that *regulatory year*;
- (c) insurance becomes unavailable to the *Transmission Network Service Provider*; or
- (d) insurance becomes available to the *Transmission Network Service Provider* on terms materially different to those existing as at the time the *revenue determination* was made (other than as a result of any act or omission of the provider which is inconsistent with good electricity industry practice).

***intending load***

A proposed purchase of electricity at a *connection point* (the location of which may be undefined) which is classified as an *intending load* in accordance with Chapter 2.

***Intending Participant***

A person who is registered by AEMO as an *Intending Participant* under Chapter 2.

***interconnection, interconnector, interconnect, interconnected***

A *transmission line* or group of *transmission lines* that *connects* the *transmission networks* in adjacent *regions*.

***interconnector flow***

The quantity of electricity in MW being transmitted by an *interconnector*.

***interested party***

- (a) In Chapter 5, a person including an end user or its *representative* who, in AEMO's opinion, has or identifies itself to AEMO as having an interest in relation to the *network* planning and development activities covered under Part B of Chapter 5 or in the determination of *plant standards* covered under clause 5.3.3(b2).
- (b) Despite the definition in (a) above, in clauses 5.16.4, 5.16.5, 5.17.4 and 5.17.5, the meaning given to it in clause 5.15.1.



- (c) In Chapter 6 or Chapter 6A, a person (not being a *Registered Participant* or *AEMO*) that has, in the *AER's* opinion, or identifies itself to the *AER* as having, an interest in the *Transmission Ring-Fencing Guidelines* or the *Distribution Ring-Fencing Guidelines*.
- (d) In Chapter 2, a person including an end user or its *representative* who, in *AEMO's* opinion, has or identifies itself to *AEMO* as having an interest in relation to the structure of *Participant fees*.
- (e) In Chapter 7, a person that has, in *AEMO's* opinion, or identifies itself to *AEMO* as having, an interest in the relevant procedure in Chapter 7.

***interim statement***

Has the meaning given in clause 3.3.11(a)(1).

***intermediary***

A person who is registered by *AEMO* as a *Generator* or a *Network Service Provider* instead of another person who, in the absence of an exemption under clause 2.9.3, would be required to be registered as such under the *Rules*.

***intermittent***

A description of a *generating 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.

***inter-network test***

A test conducted for the purpose of verifying the magnitude of the *power transfer capability* of more than one *transmission network* in accordance with clause 5.7.7.

***inter-network testing constraint***

A *constraint* on a *transmission network* as contemplated by clause 5.7.7.

***inter-regional***

Between *regions*.

***inter-regional loss factor***

A *marginal loss factor* determined according to clause 3.6.1.

***inter-regional losses***

Has the meaning given to it by clause 3.6.1(a).

***interruptible load***

A *load* which is able to be *disconnected*, either manually or automatically initiated, which is provided for the restoration or control of the *power system frequency* by *AEMO* to cater for *contingency events* or shortages of *supply*.

***interval energy data***

The data that results from the measurement of the flow of electricity in a power conductor where the data is prepared and recorded by the *metering installation* in intervals which correspond to a *trading interval* or are submultiples of a *trading interval*. *Interval energy data* is held in the *metering installation*.

***interval metering data***

The *interval energy data*, once collected from a *metering installation*, is *interval metering data*. *Interval metering data* is held in a *metering data services database* and the *metering database*.

***intervention price dispatch interval***

A *dispatch interval* declared by AEMO to be an *intervention price dispatch interval* in accordance with clause 3.9.3.

***intervention price trading interval***

A *trading interval* in which AEMO has declared an *intervention price dispatch interval* in accordance with clause 3.9.3.

***intervention settlement timetable***

Has the meaning given in clause 3.12.1(b).

***intra-regional***

Within a *region*.

***intra-regional loss factor***

A *marginal loss factor* determined according to clause 3.6.2.

***intra-regional losses***

Has the meaning given to it by clause 3.6.2(a).

***invoiced amount***

The aggregate of the *settlement statements*, *interim*, *preliminary* or *final*, which at the time of issue of a *call notice* are unpaid by the *Market Participant*, notwithstanding that the usual time for issue or payment of those *settlement statements* has not been reached.

***islanded, islanding***

In relation to an *inertia sub-network* or a combination of two or more *inertia sub-networks*, temporary loss of synchronous *connection* to all adjacent parts of the *national grid*.

***isolation***

Electrical isolation of one part of a communication system from another but where the passage of *electronic data transfer* is not prevented.

***jurisdictional derogation***

Has the meaning given in the *National Electricity Law*. The jurisdictional derogations are included in Chapter 9.

***jurisdictional electricity legislation***

Has the meaning given to that term in the *National Electricity Law*.

***jurisdictional metrology material***

Jurisdictional metrology matters that are to be included in the *metrology procedure* for one or more of the *participating jurisdictions* and which is submitted by the *Ministers of the MCE* to *AEMO* under clause 7.16.4.

***Jurisdictional NMI Standing Data schedule***

The schedules described in clause 3.13.12(a), as amended from time to time in accordance with clause 3.13.12(b).

***Jurisdictional NMI Standing Data suppliers***

*Registered Participants* which are required by the relevant *participating jurisdiction's* legislation or licensing requirements to supply *NMI Standing Data* in respect of *connection points* in that *participating jurisdiction* to *AEMO*.

***jurisdictional planning body***

The entity nominated by the relevant *Minister of a participating jurisdiction* as having *transmission system* planning responsibility in that *participating jurisdiction*.

***jurisdictional planning representative***

The *representative* from the *jurisdictional planning body* for a *participating jurisdiction* nominated by that *jurisdictional planning body* as the *jurisdictional planning representative* for that *participating jurisdiction*.

***Jurisdictional Regulator***

The person authorised by a *participating jurisdiction* to regulate *distribution service prices* in that jurisdiction.

***jurisdictional scheme***

Has the meaning given in clause 6.18.7A(d).

***jurisdictional scheme amounts***

In respect of a *jurisdictional scheme*, the amounts a *Distribution Network Service Provider* is required under the *jurisdictional scheme obligations* to:

- (a) pay to a person;
- (b) pay into a fund established under an Act of a *participating jurisdiction*;
- (c) credit against charges payable by a person; or
- (d) reimburse a person,

less any amounts recovered by the *Distribution Network Service Provider* from any person in respect of those amounts other than under these *Rules*.

***jurisdictional scheme eligibility criteria***

The criteria specified in clause 6.18.7A(x)

***jurisdictional scheme obligations***

Obligations imposed on a *Distribution Network Service Provider* under:

- (a) an Act of a *participating jurisdiction* or an instrument, direction or order made under an Act of a *participating jurisdiction* (other than the *National Electricity Law* and these *Rules*); or
- (b) a condition of a distribution licence or authority held by a *Distribution Network Service Provider* in a *participating jurisdiction*.

***Jurisdictional System Security Coordinator***

A person appointed by the *Minister* of a *participating jurisdiction* in accordance with section 110 of the *National Electricity Law*.

***lack of reserve (LOR)***

A condition declared by *AEMO* under clause 4.8.4(b).

***large customer***

- (a) In a *participating jurisdiction* where the *National Energy Retail Law* applies as a law of that *participating jurisdiction*, has the meaning given in the *National Energy Retail Law*.
- (b) Otherwise, has the meaning given in *jurisdictional electricity legislation*, or a *retail customer* that is not a *small customer*.

***large DCA service***

A service provided by means of a *large dedicated connection asset*.

***large DCA services access dispute***

A dispute between a *Dedicated Connection Asset Service Provider* and a person seeking access to *large DCA services* as referred to in clause 5.5.1(c), that is for determination by a *commercial arbitrator* under rule 5.5.

***large dedicated connection asset***

A *dedicated connection asset* where the total route length for any power lines forming part of the *dedicated connection asset* is 30 kilometres or longer.

***last jurisdictional scheme approval date***

For an *approved jurisdictional scheme* of a *Distribution Network Service Provider*, means the later of:

- (a) if the *approved jurisdictional scheme* is a *jurisdictional scheme* referred to in clause 6.18.7A(e), 1 July 2010;
- (b) if the *approved jurisdictional scheme* is not a *jurisdictional scheme* referred to in paragraph (a), the date on which the *AER* determined under clause 6.18.7A(l) that the scheme was a *jurisdictional scheme*;
- (c) if the *approved jurisdictional scheme* is a *jurisdictional scheme* in respect of which:
  - (i) a request has been made under clause 6.18.7A(o) or an assessment initiated under clause 6.18.7A(r); and
  - (ii) the *AER* has determined under clause 6.18.7A(u) that the scheme should not cease to be a *jurisdictional scheme*,the date of that determination; or
- (d) if in a previous *pricing proposal* the *Distribution Network Service Provider* provided information in respect of that *approved jurisdictional scheme* to the *AER* under clause 6.18.2(b)(6B), the date that such a *pricing proposal* was submitted.

***last resort planning power***

The *AEMC*'s power to direct a *Registered Participant* under rule 5.22(c).

***last resort planning power guidelines***

The guidelines made by the *AEMC* relating to the exercise of the *last resort planning power* and referred to in rule 5.22(n) to (q).

***late rebidding period***

In respect of a *trading interval*, the period beginning 15 minutes before the commencement of the *trading interval*.

***load***

A *connection point* or defined set of *connection points* at which electrical power is delivered to a person or to another *network* or the amount of electrical power delivered at a defined instant at a *connection point*, or aggregated over a defined set of *connection points*.

***load centre***

A geographically concentrated area containing *load* or *loads* with a significant combined consumption capability.

***load shedding***

Reducing or *disconnecting load* from the *power system*.

***load shedding procedures***

The procedures developed by AEMO for each *participating jurisdiction* in accordance with clause 4.3.2(h)(1) for the implementation of the *load shedding* priority and *sensitive load* priority advised by that *Jurisdictional System Security Coordinator* under clauses 4.3.2(f)(1) and (2).

***loading level***

The level of output, consumption or power flow (in MW) of a *generating unit*, *load* or *scheduled network service*.

***loading price***

The price specified for a *price band* and a *trading interval* in a *dispatch offer*, in accordance with clause 3.8.6, for the *dispatch* of a *scheduled generating unit* at a level above its *self-dispatch level*.

***local area/local***

The geographical area allocated to a *Network Service Provider* by the authority responsible for administering the *jurisdictional electricity legislation* in the relevant *participating jurisdiction*.

***local black system procedures***

The procedures, described in clause 4.8.12, applicable to a *local area* as approved by AEMO from time to time.

***local market ancillary service requirement***

Has the meaning given to it by clause 3.8.1(e2).

***Local Network Service Provider***

Within a *local area*, a *Network Service Provider* to which that geographical area has been allocated by the authority responsible for administering the *jurisdictional electricity legislation* in the relevant *participating jurisdiction*.

***Local Retailer***

In relation to a *local area*, the *Customer* who is:

1. a business unit or *related body corporate* of the relevant *Local Network Service Provider*; or
2. responsible under the laws of the relevant *participating jurisdiction* for the *supply* of electricity to *franchise customers* in that *local area*; or
3. if neither 1 or 2 is applicable, such other *Customer* as *AEMO* may determine.

***local spot price***

A price determined according to clause 3.9.1(c).

***long run marginal cost***

For the purposes of clause 6.18.5, the cost of an incremental change in demand for *direct control services* provided by a *Distribution Network Service Provider* over a period of time in which all factors of production required to provide those *direct control services* can be varied.

***loss factor***

A multiplier used to describe the *electrical energy loss* for electricity used or transmitted.

***low reserve***

The conditions described in clause 4.8.4(a).

***major supply disruption***

The unplanned absence of *voltage* on a part of the *transmission system* affecting one or more *power stations* and which leads to a loss of *supply* to one or more *loads*.

***mandatory restrictions***

Restrictions imposed by a *participating jurisdiction* by a relevant law, other than the *Rules*, on the use of electricity in a *region*.

***mandatory restriction period***

The period of *mandatory restrictions*.

***mandatory restriction schedule***

A schedule prepared in accordance with clause 3.12A.2.

***margin requirement***

The requirement set out in clause S6.2.2A(d) or clause S6A.2.2A(d), as the case may be.

***marginal electrical energy loss***

The *electrical energy loss* associated with an infinitesimal increment in electricity produced, transported and/or used.

***marginal loss factor***

A multiplier used to describe the *marginal electrical energy loss* for electricity used or transmitted.

***market***

Any of the markets or exchanges described in the *Rules*, for so long as the market or exchange is conducted by *AEMO*.

***market ancillary service***

A service identified in clause 3.11.2(a).

***market ancillary service offer***

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 Ancillary Service Provider***

A person who offers and provides *load* as a *market ancillary service* under Chapter 2 and who is registered by *AEMO* as a *Market Ancillary Service Provider* under Chapter 2. The relevant person does not need to be the *Market Customer* for the relevant *load*.

***market ancillary service specification***

Has the meaning given in clause 3.11.2(b).

***market auditor***

A person appointed by *AEMO* to carry out a *review* under clause 3.13.10(a).

***market commencement***

The date declared as such by *AEMO*, on which trading in the *market* commences.

***market connection point***

A *connection point* where any *load* is classified in accordance with Chapter 2 as a *market load* or which *connects* any *market generating unit* to the *national grid*, or where the *network service connected* at that *connection point* is a *market network service*.



### ***Market Customer***

A *Customer* who has classified any of its *loads* as a *market load* and who is also registered by AEMO as a *Market Customer* under Chapter 2.

### ***market customer's additional claim***

Has the meaning given in clause 3.12.2(g)(4).

### ***market floor price***

A price floor on *regional reference prices* as described in clause 3.9.6.

### ***market generating unit***

A *generating unit* whose *sent out generation* is not purchased in its entirety by the *Local Retailer* or by a *Customer* located at the same *connection point* and which has been classified as such in accordance with Chapter 2.

### ***Market Generator***

A *Generator* who has classified at least one *generating unit* as a *market generating unit* in accordance with Chapter 2 and who is also registered by AEMO as a *Market Generator* under Chapter 2.

### ***market information***

Information, other than *confidential information*, concerning the operation of the *spot market* or relating to the operation of, inputs to, or outputs from the *central dispatch* process.

### ***market information bulletin board***

A facility established by AEMO on the *electronic communication system* for the posting of information which may then be available to *Registered Participants*.

### ***market load***

A *load* at a *connection point* classified by the person *connected* at that *connection point* or, with the consent of that person, by some other person, as a *market load* in accordance with Chapter 2. There can be more than one *market load* at any one *connection point*.

### ***market management systems***

AEMO's *market information* systems and associated communications networks used to support the electronic communication by *Registered Participants* and others connected to or making use of the systems and networks in the operation of the *market*.

### ***Market Management Systems Access Procedures***

The procedures to be followed by *Registered Participants*, *Metering Providers* and *Metering Data Providers* in connecting to and making use of the *market management systems* from time to time *published* by AEMO under rule 3.19.

***market network service***

A *network service* which is classified as a *market network service* in accordance with clause 2.5.2.

***Market Network Service Provider***

A *Network Service Provider* who has classified any of its *network services* as a *market network service* in accordance with Chapter 2 and who is also registered by AEMO as a *Market Network Service Provider* under Chapter 2.

***Market Participant***

A person who is registered by AEMO as a *Market Generator*, *Market Customer*, *Market Small Generation Aggregator*, *Market Ancillary Service Provider* or *Market Network Service Provider* under Chapter 2.

***Market Participant registered data***

The data kept on the register in accordance with schedule 5.5.

***market price cap***

A price cap on *regional reference prices* as described in clause 3.9.4.

***market retail contract***

Has the same meaning as in the *NERL*.

***Market Settlement and Transfer Solution Procedures***

The procedures from time to time *published* by AEMO under clause 7.16.2 which include those governing the recording of financial responsibility for *energy flows* at a *connection point*, the transfer of that responsibility between *Market Participants* and the recording of *energy flows* at a *connection point*.

***Market Small Generation Aggregator***

A person who:

- (a) has classified one or more *small generating units* as a *market generating unit*; and
- (b) is registered by AEMO as a *Market Small Generation Aggregator* under Chapter 2.

***market suspension***

Suspension of the *spot market* by AEMO in accordance with clause 3.14.3.

***material inter-network impact***

A material impact on another *Transmission Network Service Provider's network*, which impact may include (without limitation):

- (a) the imposition of *power transfer constraints* within another *Transmission Network Service Provider's network*; or
- (b) an adverse impact on the quality of *supply* in another *Transmission Network Service Provider's network*.

***materially***

For the purposes of the application of clause 6.6.1, an event results in a *Distribution Network Service Provider* incurring materially higher or materially lower costs if the change in costs (as opposed to the revenue impact) that the *Distribution Network Service Provider* has incurred and is likely to incur in any *regulatory year* of a *regulatory control period*, as a result of that event, exceeds 1% of the *annual revenue requirement* for the *Distribution Network Service Provider* for that *regulatory year*.

For the purposes of the application of clause 6A.7.3, an event (other than a *network support event*) results in a *Transmission Network Service Provider* incurring materially higher or materially lower costs if the change in costs (as opposed to the revenue impact) that the *Transmission Network Service Provider* has incurred and is likely to incur in any *regulatory year* of a *regulatory control period*, as a result of that event, exceeds 1% of the *maximum allowed revenue* for the *Transmission Network Service Provider* for that *regulatory year*.

In other contexts, the word has its ordinary meaning.

***maximum allowed revenue***

For a *Transmission Network Service Provider*: the amount calculated as such for a *regulatory year* of a *regulatory control period* in accordance with rule 6A.3.

For AEMO: the amount calculated as such for a *regulatory year* of a *regulatory control period* in accordance with clause S6A.4.2(c)(4).

***maximum credit allowance***

Has (in the context of Chapter 6B) the meaning given in clause 6B.B1.2.

***maximum demand***

The highest amount of electrical power delivered, or forecast to be delivered, over a defined period (*day*, *week*, *month*, *season* or *year*) either at a *connection point*, or simultaneously at a defined set of *connection points*.

***maximum power input (MPI)***

The largest single *supply* input to a particular location or *region*, typically the output of the largest single *generating unit* or group of *generating units* or the highest *power transfer* of a single *transmission line* or *interconnection*.

***maximum ramp rate***

The *maximum ramp rate* that an item of equipment is capable of achieving in normal circumstances. This may be:

- (a) as specified by the manufacturer; or
- (b) as independently certified from time to time to reflect changes in the physical capabilities of the equipment.

***maximum total payment***

The amount determined in accordance with clause 3.15.22.

***measurement element***

An energy measuring component which converts the flow of electricity in a power conductor into an electronic signal and / or a mechanically recorded electrical measurement.

***medium term PASA***

The *PASA* in respect of the period described in clause 3.7.2(a), as described under clause 3.7.2.

***medium term PASA inputs***

The inputs to be prepared in accordance with clauses 3.7.2(c) and (d).

***Member***

A person appointed or elected (as the case may be) to the *Information Exchange Committee* pursuant to the *Information Exchange Committee Election Procedures and Rules*, and includes all membership categories, unless a contrary intention appears.

***meter***

A device complying with *Australian Standards* which measures and records the production or consumption of electrical *energy*.

***meter churn procedures***

The procedures established by *AEMO* under clause 7.8.9(f).

***metering***

Recording the production or consumption of electrical *energy*.

***Metering Coordinator***

A person who is registered by *AEMO* as a *Metering Coordinator* under Chapter 2.

***Metering Coordinator default event***

In relation to a *Metering Coordinator*, means any of the following events or circumstances:

- (a) the *Metering Coordinator* ceases to be registered by *AEMO* as a *Metering Coordinator* under Chapter 2;

- (b) an *insolvency official* is appointed in respect of the *Metering Coordinator* or any property of the *Metering Coordinator*; or
- (c) an order is made for the winding up of the *Metering Coordinator* or a resolution is passed for the winding up of *Metering Coordinator*; or
- (d) a breach of the *Rules* or applicable procedures made under the *Rules* in relation to which *AEMO* has issued a *Metering Coordinator default notice* under clause 7.7.3(c)(3).

***Metering Coordinator default notice***

A notice issued by *AEMO* under clause 7.7.3(c)(3).

***metering data***

*Accumulated metering data, interval metering data, calculated metering data, substituted metering data, estimated metering data and check metering data.*

***Metering Data Provider***

A person who meets the requirements listed in schedule 7.3 and has been accredited and registered by *AEMO* as a *Metering Data Provider*.

***metering data services***

The services that involve the collection, processing, storage and delivery of *metering data* and the management of relevant *NMI Standing Data* in accordance with the *Rules*.

***metering data provision procedures***

Procedures for the provision of *metering data* requested under rule 7.14, developed and *published* by *AEMO*.

***metering data services database***

The database established and maintained by the *Metering Data Provider* that holds *metering data* and relevant *NMI Standing Data* relating to each *metering installation* for which the *Metering Coordinator* or the *financially responsible Market Participant* or *AEMO* (as the case may be) has engaged the *Metering Data Provider* to provide *metering data services*.

***metering database***

A database of *metering data* and *settlements ready data* maintained and administered by *AEMO* in accordance with clause 7.11.

***metering installation***

The assembly of components including the *instrument transformer*, if any, measurement element(s) and processes, if any, recording and display equipment, *communications interface*, if any, that are controlled for the purpose of metrology

and which lie between the *metering point(s)* and the point at or near the *metering point(s)* where the *energy data* is made available for collection.

**Note:**

- (1) The assembly of components may include the combination of several *metering points* to derive the *metering data* for a *connection point*.
- (2) The *metering installation* must be classified as being for revenue purposes and/or as a *check metering installation*.

***metering installation malfunction***

The full or partial failure of the *metering installation* in which the *metering installation* does not:

- (a) meet the requirements of schedule 7.4; or
- (b) record, or incorrectly records, *energy data*; or
- (c) allow, or provides for, collection of *energy data*; or
- (d) in the case of a *small customer metering installation*, meet the requirements of schedule 7.5.

***Metering Member***

A person nominated and elected as a *Member* by *Metering Member Voters* to represent *Metering Member Voters* in accordance with the *Rules* (including clause 7.17.10(g)) and the *Information Exchange Committee Election Procedures*.

***Metering Member Voters***

*Metering Coordinators, Metering Providers and Metering Data Providers.*

***metering point***

The point of physical connection of the device measuring the current in the power conductor.

***Metering Provider***

A person who meets the requirements listed in schedule 7.2 and has been accredited by and registered by AEMO as a *Metering Provider*.

***metering register***

A register of information associated with a *metering installation* as required by schedule 7.1.

***metering system***

The collection of all components and arrangements installed or existing between each *metering point* and the *metering database*.

***metrology procedure***

The procedure developed and *published* by AEMO in accordance with rule 7.16.

***micro EG connection***

Has (in the context of Chapter 5A) the meaning given in clause 5A.A.1

***micro embedded generator***

Has (in the context of Chapter 5A) the meaning given in clause 5A.A.1

***minimum access standard***

In relation to a technical requirement of access, a standard of performance, identified in a schedule of Chapter 5 as a minimum access standard for that technical requirement, such that a *plant* that does not meet that standard will be denied access because of that technical requirement.

***minimum services specification***

The requirements in respect of a *metering installation* set out in Schedule 7.5.

***minimum threshold level of inertia***

For an *inertia sub-network*, the *minimum threshold level of inertia* determined by AEMO and referred to in clause 5.20B.2(b)(1).

***Minister***

A Minister that is a “Minister” under the *National Electricity Law*.

***Minister of (a, that, another, or other, etc) participating jurisdiction***

Has the same meaning as Minister of a participating jurisdiction has in the *National Electricity Law*.

***Ministers of the MCE***

*Ministers of the participating jurisdictions* acting as the MCE where MCE has the same meaning as in the *National Electricity Law*.

***mis-pricing***

For a particular *network* node within a nominated *region*, the difference between:

- (a) the *regional reference price* for the *region*; and
- (b) an estimate of the marginal value of *supply* at the *network* node, which marginal value is determined as the price of meeting an incremental change in *load* at that *network* node.

### ***MLEC CRNP Methodology***

For the purposes of calculating the *modified load export charges*, the *CRNP Methodology* (and for the avoidance of doubt, not the *modified CRNP Methodology*) provided that each of the following is satisfied:

- (a) for the purposes of clause S6A.3.2(1), network ‘costs’ are attributed to all *transmission systems* assets of the relevant *Transmission Network Service Provider*; and
- (b) for the purposes of clause S6A.3.2(3):
  - (1) every *trading interval* of the previous *regulatory year* in order to determine the range of actual operating conditions from the previous *regulatory year*; and
  - (2) the peak usage of each *transmission system* asset by each *load* is used to determine the allocation of dispatched *generation* to loads from the previous *regulatory year*.

### ***model standing offer***

Has (in the context of Chapter 5A) the meaning given in clause 5A.A.1.

### ***modified CRNP methodology***

The cost allocation methodology set out in clause S6A.3.3.

### ***modified load export charges***

Charges received by or payable to the *Co-ordinating Network Service Provider* in a *region* by or to a *Co-ordinating Network Service Provider* in an *interconnected region* calculated under rule 6A.29A.2.

### ***monitoring equipment***

The testing instruments and devices used to record the performance of *plant* for comparison with expected performance.

### ***month***

Unless otherwise specified, the period beginning at 4.30 am on the relevant commencement date and ending at 4.30 am on the date in the next calendar month corresponding to the commencement date of the 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.

### ***NATA***

National Association of Testing Authorities.



***National Electricity Law***

The National Electricity Law set out in the schedule to the *National Electricity (South Australia) Act 1996* (SA) and applied in each of the *participating jurisdictions*.

***National Electricity Market***

Has the same meaning as in the *National Electricity Law*.

***national electricity objective***

The objective stated in section 7 of the Law.

***National Energy Retail Law***

Means the *National Energy Retail Law* set out in the Schedule to the *National Energy Retail Law (South Australia) Act 2012* of South Australia.

***National Energy Retail Rules***

Has the same meaning as in the *National Energy Retail Law*.

***national grid***

The sum of all *connected transmission systems* and *distribution systems* within the *participating jurisdictions*.

***National Measurement Act***

The *National Measurement Act 1960* of the Commonwealth as amended from time to time.

***national transmission flow path***

That portion of a *transmission network* or *transmission networks* used to transport significant amounts of electricity between *generation centres* and *load centres*.

***national transmission grid***

Has the meaning given in the *National Electricity Law*.

***negative change event***

For a *Distribution Network Service Provider*, a *pass through event* which entails the *Distribution Network Service Provider* incurring *materially* lower costs in providing *direct control services* than it would have incurred but for that event.

For a *Transmission Network Service Provider*, a *pass through event* which entails the *Transmission Network Service Provider* incurring *materially* lower costs in providing *prescribed transmission services* than it would have incurred but for that event.

***negative network support event***

A *network support event* which entails a *Transmission Network Service Provider* making lower *network support payments* in the preceding *regulatory year* than the amount of the *network support payment allowance* (if any) for that provider for that preceding *regulatory year*.

***negative pass through amount***

In respect of a *negative change event* for a *Transmission Network Service Provider*, an amount that is not greater than a *required pass through amount* as determined by the AER under clause 6A.7.3(g).

In respect of a *negative change event* for a *Distribution Network Service Provider*, an amount that is not greater than a *required pass through amount* as determined by the AER under clause 6.6.1(g).

***negotiable service***

- (a) In relation to *transmission services* means *negotiated transmission services*.
- (b) In relation to *distribution services* means *negotiated distribution services*.

***negotiated access standard***

In relation to a technical requirement of access for a particular *plant*, an agreed standard of performance determined in accordance with clause 5.3.4A and identified as a negotiated access standard for that technical requirement in a *connection agreement*.

***negotiated distribution service***

A *distribution service* that is a negotiated network service within the meaning of section 2C of the Law;

***Negotiated Distribution Service Criteria***

The criteria specified in a distribution determination in accordance with clause 6.7.4.

***Negotiated Distribution Service Principles***

The principles set out in clause 6.7.1.

***negotiated transmission service***

Any of the following services:

- (a) a *shared transmission service* that:
  - (1) exceeds the *network* performance requirements (whether as to quality or quantity) (if any) as that *shared transmission service* is required to meet under any *jurisdictional electricity legislation*; or

- (2) except to the extent that the *network* performance requirements which that *shared transmission service* is required to meet are prescribed under any *jurisdictional electricity legislation*, exceeds or does not meet the *network* performance requirements (whether as to quality or quantity) as are set out in schedule 5.1a or 5.1;
- (b) *connection services* that are provided to serve a *Transmission Network User*, or group of *Transmission Network Users*, at a *single transmission network connection point*, other than *connection services* that are provided by one *Network Service Provider* to another *Network Service Provider* to connect their *networks* where neither of the *Network Service Providers* is a *Market Network Service Provider*;
- (c) services specified to be *negotiated transmission services* under rule 5.2A.4; or
- (d) undertaking *system strength connection works*,

but does not include an *above-standard system shared transmission service* or a *market network service*.

***negotiated use of system charges***

The charges described in clause 5.3AA(f)(3).

***negotiated use of system service***

A *use of system service* in respect of which:

- (a) an *Embedded Generator* may negotiate with a *Distribution Network Service Provider*; or
- (b) a *Market Network Service Provider* may negotiate with a *Distribution Network Service Provider*,

in accordance with clause 5.3AA(f)(3).

***negotiating framework***

For a *Distribution Network Service Provider*, a negotiating framework as approved or substituted by the *AER* in its final decision under clause 6.12.1(15).

***negotiating principles***

Those negotiating principles set out in schedule 5.11.

***NEM***

The *National Electricity Market*.

***NEMMCO***

Has the meaning given in the *National Electricity Law*.

***NERL***

*National Energy Retail Law.*

***NERR***

*National Energy Retail Rules.*

***network***

The apparatus, equipment, plant and buildings used to convey, and control the conveyance of, electricity to customers (whether wholesale or retail) excluding any *connection assets*. In relation to a *Network Service Provider*, a *network* owned, operated or controlled by that *Network Service Provider*.

***network agreement***

has the meaning given in the National Electricity Law.

***network capability***

The capability of the *network* or part of the *network* to transfer electricity from one location to another.

***network charges***

Has (in the context of Chapter 6B) the meaning given in clause 6B.A1.2.

***network connection***

The formation of a physical link between the *facilities* of two *Registered Participants* or a *Registered Participant* and a customer being a *connection* to a *transmission* or *distribution network* via *connection assets*.

***network connection asset***

Those components of a *transmission system* which are used to provide *connection services* between *Network Service Providers* (excluding a *Market Network Service Provider*).

***network constraint***

A *constraint* on a *transmission network* or *distribution network*.

***network coupling point***

The point at which *connection assets* join a *distribution network*, used to identify the *distribution service price* payable by a *Customer*.

***network device***

Apparatus or equipment that:

- (a) enables a *Local Network Service Provider* to monitor, operate or control the *network* for the purposes of providing *network services*, which may include switching devices, measurement equipment and control equipment;

- (b) is located at or adjacent to a *metering installation* at the *connection point* of a *retail customer*; and
- (c) does not have the capability to generate electricity.

***network dispatch offer***

An 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.

***network element***

A single identifiable major component of a *transmission system* or *distribution system* involving:

- (a) an individual *transmission* or *distribution* circuit or a phase of that circuit; or
- (b) a major item of apparatus or equipment associated with the function or operation of a *transmission line*, *distribution line* or an associated *substation* or *switchyard* which may include *transformers*, circuit breakers, *synchronous condensers*, *reactive plant* and *monitoring equipment* and control equipment.

***network loop***

A set of *network elements* that are *connected* together in the form of a closed path, that is in such a way that by progressing from each element to the next it is possible to return to the starting point.

***network losses***

*Energy* losses incurred in the transfer of electricity over a *transmission network* or *distribution network*.

***network operating agreement***

An agreement described in clause 5.2A.7.

***network option***

A means by which an *identified need* can be fully or partly addressed by expenditure on a transmission asset or a distribution asset which is undertaken by a *Network Service Provider*.

For the purposes of this definition, **transmission asset** and **distribution asset** has the same meaning as in clause 5.10.2.

***network pricing objective***

The network pricing objective set out in paragraph 6.18.5(a).

***network service***

*Transmission service or distribution service* associated with the conveyance, and controlling the conveyance, of electricity through the *network*.

***Network Service Provider***

A person who engages in the activity of owning, controlling or operating a *transmission or distribution system* and who is registered by AEMO as a *Network Service Provider* under Chapter 2.

***network service provider performance report***

A report prepared by the AER under section 28V of the Law.

***network support agreement***

An agreement under which a person agrees to provide one or more *network support and control ancillary services* to a *Network Service Provider*, including *network support services* to improve *network capability* by providing a non-*network* alternative to a *network augmentation*.

***network support and control ancillary service or NSCAS***

A service (excluding an *inertia network service* or *system strength service*) with the capability to control the *active power* or *reactive power* flow into or out of a *transmission network* to address an *NSCAS need*.

***network support event***

- (a) If, at the end of a *regulatory year* of a *regulatory control period*, the amount of *network support payments* made by a *Transmission Network Service Provider* for that previous *regulatory year* is higher or lower than the amount of the *network support payment allowance* (if any) for the *Transmission Network Service Provider* for that previous *regulatory year*, this constitutes a *network support event*.
- (b) In calculating the amount for the purposes of a *network support event* referred to in paragraph (a), the amount of *network support payments* made by a *Transmission Network Service Provider* must not include an amount of *network support payments* that are a substitute for a *network augmentation* where an allowance for capital expenditure in relation to that *network augmentation* has been provided for in the *revenue determination* or an *approved pass through amount* arising from an *inertia shortfall event* or a *fault level shortfall event*.

***network support pass through amount***

The amount that should be passed through to *Transmission Network Users* in the *regulatory year* following the preceding *regulatory year*, in respect of a *network support event* for a *Transmission Network Service Provider*.

***network support payment***

Any of the following payments:

- (a) a payment made by a *Transmission Network Service Provider* to:
  - (1) any *Generator* providing *network* support services in accordance with rule 5.3A.12; or
  - (2) any other person providing a *network* support service that is an alternative to *network augmentation*;
- (b) an *inertia service payment*; and
- (c) a *system strength service payment*.

***network support payment allowance***

The amount of *network support payments* (if any) that is provided for a *Transmission Network Service Provider* for a *regulatory year* in:

- (a) the *annual building block revenue requirement* for the *Transmission Network Service Provider* for that *regulatory year*; or
- (b) any *approved pass through amount* for the *Transmission Network Service Provider* for that *regulatory year* arising from an *inertia shortfall event* or a *fault level shortfall event*,

less the amount (expressed as a positive) of avoided *network support payments* (if any) that is provided for in any *required pass through amount* for the *Transmission Network Service Provider* for that *regulatory year* arising from an *inertia shortfall event* or a *fault level shortfall event*.

***Network User***

A *Generator*, a *Transmission Customer*, a *Distribution Customer* or a *Market Network Service Provider*.

***new connection***

Has (in the context of Chapter 5A) the meaning given in clause 5A.A.1

***NMAS provider***

A person who agrees to provide one or more *non-market ancillary services* to AEMO under an *ancillary services agreement*.

***NMI***

A National Metering Identifier as described in clause 7.8.2(c).

***NMI Standing Data***

The following data in respect of a *connection point*:

- (a) the *NMI* of the *connection point* and the street address of the relevant *connection point* to which that *NMI* is referable;
- (b) the *NMI* checksum for the *connection point*;
- (c) the identity of the *Local Network Service Provider* or, if the *connection point* is a *child connection point*, the identity of the *Embedded Network Manager* and the *Exempt Embedded Network Service Provider*;
- (d) the code (known as a *TNI*) identifying the relevant *transmission node* which identifies the *transmission loss factor* and/or *transmission use of system* charge for the *connection point* and, if the *connection point* is a *child connection point*, the *NMI* of the *parent connection point* on that *embedded network*;
- (e) the relevant *distribution loss factor* applicable to the *connection point*;
- (f) the Network Tariff (identified by a code) applicable in respect of the *connection point*;
- (g) the *NMI* classification code (as set out in the *Market Settlement and Transfer Solution Procedures*) of the *connection point*;
- (h) the read cycle date, or date of next scheduled read or date in a relevant code representing the read cycle date or date of next scheduled read, for that *connection point*;
- (i) the profile type applicable to the *connection point*; and
- (j) such other categories of data as may be referred to in the *Market Settlement and Transfer Solution Procedures* as forming *NMI Standing Data*,

and, for the avoidance of doubt, does not include any *metering data* or other details of an end-user's consumption at that *connection point*.

### ***nomenclature standards***

The standards approved by *AEMO* in conjunction with the *Network Service Providers* relating to numbering, terminology and abbreviations used for information transfer between *Registered Participants* as provided for in clause 4.12.

### ***nominal voltage***

The design *voltage* level, nominated for a particular location on the *power system*, such that power lines and circuits that are electrically connected other than through *transformers* have the same *nominal voltage* regardless of operating *voltage* and *normal voltage*.

### ***nominated pass through event considerations***

The *nominated pass through event considerations* are:



- (a) whether the event proposed is an event covered by a category of *pass through event* specified in clause 6.6.1(a1)(1) to(4) (in the case of a distribution determination) or clause 6A.7.3(a1)(1) to(4) (in the case of a *transmission determination*);
- (b) whether the nature or type of event can be clearly identified at the time the determination is made for the service provider;
- (c) whether a prudent service provider could reasonably prevent an event of that nature or type from occurring or substantially mitigate the cost impact of such an event;
- (d) whether the relevant service provider could insure against the event, having regard to:
  - (1) the availability (including the extent of availability in terms of liability limits) of insurance against the event on reasonable commercial terms; or
  - (2) whether the event can be self-insured on the basis that:
    - (i) it is possible to calculate the self-insurance premium; and
    - (ii) the potential cost to the relevant service provider would not have a significant impact on the service provider's ability to provide *network services*; and.
- (e) any other matter the *AER* considers relevant and which the *AER* has notified *Network Service Providers* is a nominated pass through event consideration.

***non-contestable IUSA components***

Those components of the *identified user shared asset* that do not satisfy the criteria set out in clause 5.2A.4(c).

***non-credible contingency event***

An event described in clause 4.2.3(e).

***Non-market ancillary service or NMAS***

Any of the following services:

- (a) *network support and control ancillary services* and other services acquired by *Transmission Network Service Providers* under *connection agreements* or *network support agreements* to meet the service standards linked to the technical requirements of schedule 5.1 or in *applicable regulatory instruments* (but to avoid doubt, excluding *inertia network services* and *system strength services*); and
- (b) *system restart ancillary services* and *network support and control ancillary services* acquired by *AEMO* under *ancillary services agreements*.

***non-market generating unit***

A *generating unit* whose *sent out generation* is purchased in its entirety by the *Local Retailer* or by a *Customer* located at the same *connection point* and which has been classified as such in accordance with Chapter 2.

***Non-Market Generator***

A *Generator* who has classified a *generating unit* as a *non-market generating unit* in accordance with Chapter 2.

***non-network option***

A means by which an *identified need* can be fully or partly addressed other than by a *network option*.

***Non-Registered Customer***

A person who:

1. purchases electricity through a *connection point* with the *national grid* other than from the *spot market*; and
2. is eligible to be registered by AEMO as a *Customer* and to classify the *load* described in (1) as a *first-tier load* or a *second-tier load*, but is not so registered.

***non-registered embedded generator***

In the context of clause 6.7A, has the meaning given in chapter 5A.

***non-regulated transmission services***

A *transmission service* that is neither a *prescribed transmission service* nor a *negotiated transmission service*.

***non-scheduled generating unit***

A *generating unit* so classified in accordance with Chapter 2.

***non-scheduled generating system***

A *generating system* comprising *non-scheduled generating units*.

***Non-Scheduled Generator***

A *Generator* in respect of which any *generating unit* is classified as a *non-scheduled generating unit* in accordance with Chapter 2.

***non-scheduled load***

A *market load* which is not a *scheduled load*.

***non semi-dispatch interval***

For a *semi-scheduled generating unit*, a *dispatch interval* other than a *semi-dispatch interval*.

***non-suspension decision***

A decision made by AEMO under clause 3.15.21(c1)(2) or (3) not to suspend some or all of the activities of a *defaulting Market Participant* following an *external administration default event*.

***normal operating frequency band***

In relation to the *frequency* of the *power system*, means the range 49.9Hz to 50.1Hz or such other range so specified in the *power system security standards*.

***normal operating frequency excursion band***

In relation to the *frequency* of the *power system*, means the range specified as being acceptable for infrequent and momentary excursions of *frequency* outside the *normal operating frequency band*, being the range of 49.75 Hz to 50.25 Hz or such other range so specified in the *power system security standards*.

***normal voltage***

In respect of a *connection point*, its *nominal voltage* or such other *voltage* up to 10% higher or lower than *nominal voltage*, as approved by AEMO, for that *connection point* at the request of the *Network Service Provider* who provides *connection* to the *power system*.

***normally off***

Describes a *scheduled load* which, unless *dispatched* in accordance with its *dispatch bid*, and in accordance with clause 3.8.7(j), should be considered as being switched off.

***normally on***

Describes a *scheduled load* which, unless *dispatched* in accordance with its *dispatch bid*, and in accordance with clause 3.8.7(i), should be considered as being switched on.

***NSCAS gap***

Any *NSCAS need* that AEMO forecasts will arise at any time within a planning horizon of at least 5 years from the beginning of the year in which the most recent *NTNDP* applies.

***NSCAS need***

- (a) Subject to paragraphs (b) and (c), *network support and control ancillary service* required to:

- (1) maintain *power system security* and reliability of *supply* of the *transmission network* in accordance with the *power system security standards* and the *reliability standard*; and
  - (2) maintain or increase the *power transfer capability* of that *transmission network* so as to maximise the present value of net economic benefit to all those who produce, consume or transport electricity in the *market*.
- (b) Any requirement for a service that satisfies paragraph (a) and is also capable of being made available as an *inertia network service* to address an *inertia shortfall* through the arrangements in rule 5.20B must be treated as an *inertia shortfall* and is not an *NSCAS need*.
  - (c) Any requirement for a service that satisfies paragraph (a) and is also capable of being made available as a *system strength service* to address a *fault level shortfall* through the arrangements in rule 5.20C must be treated as a *fault level shortfall* and is not an *NSCAS need*.

### ***NSCAS preferred tenderers***

Persons that submitted tenders for *NSCAS* that are deemed to be non-competitive as selected by *AEMO* in accordance with clause 3.11.5(g).

### ***NSCAS Provider***

A person who agrees to provide one or more *network support and control ancillary services* to *AEMO* under an *ancillary services agreement*.

### ***NTNDP***

The National Transmission Network Development Plan as defined in the *National Electricity Law*.

### ***NTNDP database***

The database that *AEMO* is required to establish and maintain under clause 5.20.4.

### ***NTNDP inputs***

Has the meaning given in clause 5.20.4.

### ***NTP functions***

Has the meaning given in the *National Electricity Law*.

### ***off-loading price***

The price specified for a *price band* and a *trading interval* in a *dispatch offer*, in accordance with clause 3.8.6, for the *off-loading* of a *scheduled generating unit* below its *self-dispatch level*.

***off-loading price band***

A *price band* submitted for *off-loading* below a *self-dispatch level* for a *trading interval* in a *dispatch offer*.

***off-loading, off-load***

The reduction in electricity output or consumption.

***operating expenditure criteria***

For a *Transmission Network Service Provider* – the matters listed in clause 6A.6.6(c)(1)–(3).

For a *Distribution Network Service Provider* – the matters listed in clause 6.5.6(c)(1)–(3).

***operating expenditure factors***

For a *Transmission Network Service Provider* - the factors listed in clause 6A.6.6(e)(1)–(14).

For a *Distribution Network Service Provider* - the factors listed in clause 6.5.6(e)(1)–(12).

***operating expenditure objectives***

For a *Transmission Network Service Provider* – the objectives set out in clause 6A.6.6(a).

For a *Distribution Network Service Provider* – the objectives set out in clause 6.5.6(a).

***operational communication***

A communication concerning the arrangements for, or actual operation of, the *power system* in accordance with the *Rules*.

***operational frequency tolerance band***

The range of *frequency* within which the *power system* is to be operated to cater for the occurrence of a *contingency event* as specified in the *power system security standards*.

***ordinary majority***

At least 60% of the number of *Members*.

***outage***

Any full or partial unavailability of equipment or *facility*.

***outstandings***

In relation to a *Market Participant*, the dollar amount determined by the formula in clause 3.3.9.

***over frequency scheme***

An *emergency frequency control scheme* with capability to respond when frequency is above or climbing above the *normal operating frequency band*.

***over-recovery amount***

Any amount by which the revenue earned from the provision of *prescribed transmission services* in previous *regulatory years* exceeds the sum of the *AARR* in those *regulatory years*.

***overspending requirement***

The requirement set out in clause S6.2.2A(c) or clause S6A.2.2A(c), as the case may be.

***parent connection point***

The *connection point* between an *embedded network* and a *Network Service Provider's network*.

***Participant compensation fund***

The fund of that name referred to in clause 3.16.

***participant derogation***

Has the meaning given in the *National Electricity Law*. The participant derogations are included in Chapter 8A.

***Participant fees***

The fees payable by *Registered Participants* described in clause 2.11.

***participating jurisdiction***

A jurisdiction that is a “participating jurisdiction” under the *National Electricity Law*.

***PASA availability***

The *physical plant capability* (taking ambient weather conditions into account in the manner described in the procedure prepared under clause 3.7.2(g)) of a *scheduled generating unit*, *scheduled load* or *scheduled network service* available in a particular period, including any *physical plant capability* that can be made available during that period, on 24 hours’ notice.

***pass through event***

For a distribution determination - the events specified in clause 6.6.1(a1)

For a *transmission determination* – the events specified in clause 6A.7.3(a1).

***payment date***

The 20th *business day* after the end of a *billing period*.

***peak load***

Maximum *load*.

***performance incentive scheme parameters***

For a *service target performance incentive scheme*, those parameters that are *published* by the *AER* in respect of that scheme pursuant to clause 6A.7.4(c).

***performance standard***

A standard of performance that:

- (a) is established as a result of it being taken to be an applicable performance standard in accordance with clause 5.3.4A(i); or
- (b) is included in the register of *performance standards* established and maintained by *AEMO* under rule 4.14(n),

as the case may be.

***performance standards commencement date***

For:

- (a) *Generators, Customers and Network Service Providers* who plan, own, operate or control a *facility* located in a *participating jurisdiction* (other than Tasmania), the *performance standards commencement date* is, in relation to that *facility*, 16 November 2003; and
- (b) *Generators, Customers and Network Service Providers* who plan, own, operate or control a *facility* located in Tasmania, the *performance standards commencement date* is, in relation to that *facility*, the date that Tasmania becomes a *participating jurisdiction*.

***physical plant capability***

The maximum MW output or consumption which an item of electrical equipment is capable of achieving for a given period.

***planned network event***

An event which has been planned by a *Transmission Network Service Provider*, *AEMO* or a *Market Participant* that is likely to materially affect *network constraints* in relation to a *transmission system*, including but not limited to:

- (a) a *network outage*;
- (b) the *connection* or *disconnection* of *generating units* or *load*;
- (c) the commissioning or decommissioning of a *network* asset or the provision of new or modified *network support and control ancillary services*; and
- (d) the provision of *network support and control ancillary services* under a *network support agreement*.

***plant***

- (a) In relation to a *connection point*, includes all equipment involved in generating, utilising or transmitting electrical *energy*.
- (b) In relation to *dispatch bids* and *offers*, controllable generating equipment and controllable *loads*.
- (c) In relation to the *statement of opportunities* prepared by AEMO, individually controllable generating facilities registered or capable of being registered with AEMO.
- (d) In relation to the *regulatory investment test for transmission*, any of the definitions of *plant* in paragraphs (a) to (c) relevant to the application of the *regulatory investment test for transmission* to a RIT-T project.
- (e) In relation to the *regulatory investment test for distribution*, any of any of the definitions of *plant* in paragraphs (a) to (c) relevant to the application of the *regulatory investment test for distribution* to a RIT-D project.
- (f) In relation to a *system strength remediation scheme*, includes all equipment involved in the implementation of the scheme.

***plant availability***

The *active power capability* of a *generating unit* (in MW), based on the availability of its electrical power conversion process and assuming no fuel supply limitations on the *energy* available for input to that electrical power conversion process.

***plant standard***

An Australian or international standard or a part thereof that:

- (a) the *Reliability Panel* determines to be an acceptable alternative to a particular *minimum access standard* or *automatic access standard* for a particular class of *plant*, or
- (b) a schedule in Chapter 5 establishes as an acceptable alternative to a particular *minimum access standard* or *automatic access standard* for a particular class of *plant*.



***positive change event***

For a *Distribution Network Service Provider*:

- (a) a *pass through event*, other than a *retailer insolvency event*, which entails the *Distribution Network Service Provider* incurring *materially* higher costs in providing *direct control services* than it would have incurred but for that event, but does not include a *contingent project* or an associated *trigger event*; or
- (b) a *retailer insolvency event*.

For a *Transmission Network Service Provider*, a *pass through event* which entails the *Transmission Network Service Provider* incurring *materially* higher costs in providing *prescribed transmission services* than it would have incurred but for that event, but does not include a *contingent project* or an associated *trigger event*.

***positive network support event***

A *network support event* which entails a *Transmission Network Service Provider* making higher *network support payments* in the preceding *regulatory year* than the amount of the *network support payment allowance* (if any) for that provider for that preceding *regulatory year*.

***positive pass through amount***

For a *Transmission Network Service Provider*, an amount (not exceeding the *eligible pass through amount*) proposed by the provider under clause 6A.7.3(c).

For a *Distribution Network Service Provider*, an amount (not exceeding the *eligible pass through amount*) proposed by the provider under clause 6.6.1(c).

***postage-stamp basis***

A system of charging *Network Users* for *transmission service* or *distribution service* in which the price per unit is the same regardless of how much *energy* is used by the *Network User* or the location in the *transmission network* or *distribution network* of the *Network User*.

***post-tax revenue model***

For a *Transmission Network Service Provider*, the model prepared and *published* by the AER in accordance with clause 6A.5.2.

For a *Distribution Network Service Provider*, the model prepared and *published* by the AER in accordance with clause 6.4.1.

***potential value***

In relation to a *transaction* for a *Market Participant*, the dollar amount determined by the procedure in clause 3.3.14.

***power factor***

The ratio of the *active power* to the *apparent power* at a *metering point*.

***power station***

In relation to a *Generator*, a *facility* in which any of that *Generator's generating units* are located.

***power system***

The electricity power system of the *national grid* including associated *generation* and *transmission* and *distribution networks* for the *supply* of electricity, operated as an integrated arrangement.

***power system damping***

The rate at which disturbances to the *satisfactory operating state* reduce in magnitude.

***power system demand***

The total *load* (in MW) supplied by the *power system*.

***Power System Design Data Sheet***

The data sheet *published* by AEMO under clause S5.5.7(a)(1).

***Power System Model Guidelines***

The guidelines *published* by AEMO under clause S5.5.7(a)(3).

***Power System Setting Data Sheet***

The data sheet *published* by AEMO under clause S5.5.7(a)(2).

***power system frequency risk review***

A review described in clause 5.20A.1(c).

***power system operating procedures***

The procedures to be followed by *Registered Participants* in carrying out operations and/or maintenance activities on or in relation to primary and *secondary equipment connected* to or forming part of the *power system* or *connection points*, as described in clause 4.10.1.

***power system reserve constraint***

A *constraint* in the *central dispatch* due to the need to provide or maintain a specified type and level of *scheduled reserve*.

***power system security***

The safe scheduling, operation and control of the *power system* on a continuous basis in accordance with the principles set out in clause 4.2.6.

***power system security standards***

The standards (other than the *reliability standard* and the *system restart standard*) governing *power system security* and *reliability* of the *power system* to be approved by the *Reliability Panel* on the advice of *AEMO*, but which may include but are not limited to standards for the *frequency* of the *power system* in operation and *contingency capacity reserves* (including guidelines for assessing requirements).

***power transfer***

The instantaneous rate at which *active energy* is transferred between *connection points*.

***power transfer capability***

The maximum permitted *power transfer* through a *transmission* or *distribution network* or part thereof.

***pre-adjusted locational component***

Has the meaning given to it in clause 6A.23.3(a).

***pre-adjusted non-locational component***

Has the meaning given to it in clause 6A.23.3(a).

***pre-dispatch***

Forecast of *dispatch* performed one *day* before the *trading day* on which *dispatch* is scheduled to occur.

***pre-dispatch schedule***

A schedule prepared in accordance with clause 3.8.20(a).

***preliminary program***

The program to be prepared by a *Network Service Provider* showing proposed milestones for *connection* and access activities as specified in clause 5.3.3(b)(6).

***preliminary statement***

Has the meaning given in clause 3.15.14(a).

***premises connection assets***

Has (in the context of Chapter 5A) the meaning given in clause 5A.A.1

***prescribed common transmission services***

*Prescribed transmission services* that provide equivalent benefits to

- (a) all *Transmission Customers* who have a *connection point* with the relevant *transmission network* without any differentiation based on their location within the *transmission system*; and

- (b) *Transmission Network Service Providers* in *interconnected regions*, without any differentiation based on the location of their direct or indirect connection or interconnection with the relevant transmission system.

***prescribed connection services***

Services that are either *prescribed entry services* or *prescribed exit services*.

***prescribed entry services***

*Entry services* that are *prescribed transmission services* by virtue of the operation of clause 11.6.11.

***prescribed exit services***

*Exit services* that are *prescribed transmission services* by virtue of the operation of clause 11.6.11 and *exit services* provided to *Distribution Network Service Providers*.

***prescribed shared transmission services***

*Shared transmission services* that are *prescribed TUOS services* or *prescribed common transmission services*.

***prescribed transmission service***

Any of the following services:

- (a) a *shared transmission service* that:
  - (1) does not exceed such *network* performance requirements (whether as to quality or quantity) as that *shared transmission service* is required to meet under any *jurisdictional electricity legislation*;
  - (2) except to the extent that the *network* performance requirements which that *shared transmission service* is required to meet are prescribed under any *jurisdictional electricity legislation*, does not exceed such *network* performance requirements (whether as to quality or quantity) as are set out in schedule 5.1a or 5.1; or
  - (3) is an *above-standard system shared transmission service*;
- (b) services that are required to be provided by a *Transmission Network Service Provider* under the *Rules*, or in accordance with *jurisdictional electricity legislation*, to the extent such services relate to the provision of the services referred to in paragraph (a), including such of those services as are:
  - (1) required by *AEMO* to be provided under the *Rules*, but excluding those acquired by *AEMO* under rule 3.11; and
  - (2) necessary to ensure the integrity of a *transmission network*, including through the maintenance of *power system security* and assisting in the planning of the *power system*; or

- (c) *connection services* that are provided by a *Transmission Network Service Provider* to another *Network Service Provider* to connect their networks where neither of the *Network Service Providers* is a *Market Network Service Provider*,

but does not include a *negotiated transmission service* or a *market network service*.

***prescribed TUOS services or prescribed transmission use of system services;***

*Prescribed transmission services* that are not *prescribed common transmission services*, *prescribed entry services* or *prescribed exit services*, and that provide specific benefits to:

- (a) *Transmission Customers* who have a *connection point* with the relevant *transmission network*, based on the location of that *connection point* within the *transmission system*; and
- (b) *Transmission Network Service Providers* who have a direct or indirect *connection* or an *interconnection* with the relevant *transmission network*, based on the location of that *connection* or *interconnection* within the relevant *transmission system*.

***price band***

A MW quantity specified in a *dispatch bid*, *dispatch offer* or *market ancillary service offer* as being available for *dispatch* at a specified price.

***pricing methodology***

For a *Transmission Network Service Provider*, means the pricing methodology approved by the AER for that *Transmission Network Service Provider* and included in a *transmission determination* as referred to in rule 6A.24.

***pricing methodology guidelines***

Guidelines made by the AER under rule 6A.25 that contain the matters set out in clause 6A.25.2.

***pricing principles for direct control services***

The requirements set out in clause 6.18.5.

***Pricing Principles for Prescribed Transmission Services***

The principles set out in rule 6A.23.

***pricing proposal***

A pricing proposal under Part I of Chapter 6.

***pricing zone***

A geographic area within which *Network Users* are charged a specific set of *distribution service prices*.

***Primary Transmission Network Service Provider***

The *Transmission Network Service Provider* who operates the largest *transmission network* in each *participating jurisdiction* but does not include a *Transmission Network Service Provider* for a *declared transmission system*.

***profile***

*Metering data* or costs for a period longer than a *trading interval* allocated into *trading intervals*.

***projected assessment of system adequacy process (“PASA”)***

The medium term and short term processes described in clause 3.7 to be administered by *AEMO*.

***Proponent***

In respect of clause 5.7.7 has the meaning given in clause 5.7.7(a).

***proposed contingent capital expenditure***

For a *Distribution Network Service Provider*, the total forecast capital expenditure for the relevant *proposed contingent project*, as included in the *regulatory proposal* for that project.

For a *Transmission Network Service Provider*, the total forecast capital expenditure for the relevant *proposed contingent project*, as included in the *Revenue Proposal* for that project.

***proposed contingent project***

A proposal by a *Distribution Network Service Provider* as part of a *regulatory proposal* for a project to be determined by the *AER* as a *contingent project* for the purposes of a distribution determination accordance with clause 6.6A.1(b)(1).

A proposal by a *Transmission Network Service Provider* as part of a *Revenue Proposal* for a project to be determined by the *AER* as a *contingent project* for the purposes of a *revenue determination* in accordance with clause 6A.8.1(b)(1).

***prospective reallocation***

A *reallocation transaction* that occurs in a *trading interval* that takes place at a time after the *reallocation request* is made.

***protected event***

Has the meaning given in clause 4.2.3(f).

***protected event EFCS standard***

For an *emergency frequency control scheme* means the standard for the scheme determined by the *Reliability Panel* under clause 8.8.4 setting out:

- (a) a general description of the scheme including how it is proposed to operate and the new, existing or modified *facilities* likely to comprise the scheme; and
- (b) the *target capabilities* applicable to the scheme.

***protected information***

Has the meaning given in the *National Electricity Law*.

***protection system***

A system, which includes equipment, used to protect a *Registered Participant's facilities* from damage due to an electrical or mechanical fault or due to certain conditions of the *power system*.

***prudential requirements***

The requirements which must be satisfied as a condition of eligibility to remain a *Market Participant* in accordance with clause 3.3.

***publish/publication***

A document is published by the *AER* if it is:

- (a) published on the *AER's* website; and
- (b) made available for public inspection at the *AER's* public offices; and
- (c) in the case of a document inviting submissions from members of the public – published in a newspaper circulating generally throughout Australia.

In Part B of Chapter 5, a document is published by the *Distribution Network Service Provider* if it is published on the *Distribution Network Service Provider's* website.

Otherwise, a document is published by someone else if it is made available to *Registered Participants* electronically.

***ramp rate***

The rate of change of *active power* (expressed as MW/minute) required for *dispatch*.

***Rate of Return Guidelines***

Guidelines made by the *AER* under clause 6.5.2(m) or clause 6A.6.2(m), as the case may be.

***rated active power***

- (1) In relation to a *generating unit*, the maximum amount of *active power* that the *generating unit* can continuously deliver at the *connection point* when operating at its *nameplate rating*.
- (2) In relation to a *generating system*, the combined maximum amount of *active power* that its in-service *generating units* can deliver at the *connection point*, when its in-service *generating units* are operating at their *nameplate ratings*.

***reactive energy***

A measure, in varhour (varh), of the alternating exchange of stored energy in inductors and capacitors, which is the time-integral of the product of *voltage* and the out-of-phase component of current flow across a *connection point*.

***reactive plant***

*Plant* which is normally specifically provided to be capable of providing or absorbing *reactive power* and includes the *plant* identified in clause 4.5.1(g).

***reactive power***

The rate at which *reactive energy* is transferred.

*Reactive power* is a necessary component of alternating current electricity which is separate from *active power* and is predominantly consumed in the creation of magnetic fields in motors and *transformers* and produced by *plant* such as:

- (a) alternating current generators;
- (b) capacitors, including the capacitive effect of parallel *transmission* wires; and
- (c) *synchronous condensers*.

***reactive power capability***

The maximum rate at which *reactive energy* may be transferred from a *generating unit* to a *connection point* as specified or proposed to be specified in a *connection agreement* (as the case may be).

***reactive power reserve***

Unutilised sources of *reactive power* arranged to be available to cater for the possibility of the unavailability of another source of *reactive power* or increased requirements for *reactive power*.

***reactive power support/reactive support***

The provision of *reactive power*.



***reactor***

A device, similar to a *transformer*, specifically arranged to be *connected* into the *transmission system* during periods of low *load* demand or low *reactive power* demand to counteract the natural capacitive effects of long *transmission lines* in generating excess *reactive power* and so correct any *transmission voltage* effects during these periods.

***real estate developer***

Has the meaning given in clause 5A.A.1

***real estate development***

Has the meaning given in clause 5A.A.1

***reallocation***

A process under which two *Market Participants* request *AEMO* to make matching debits and credits to the position of those *Market Participants* with *AEMO*.

***reallocation amount***

In respect of a *Market Participant*, the positive or negative dollar amount in respect of a *reallocation transaction* being an amount payable to or by the *Market Participant*.

***reallocation procedures***

The procedures *published* by *AEMO* under clause 3.15.11A.

***reallocation request***

A request to *AEMO* for a *reallocation*, pursuant to clause 3.15.11(c).

***reallocation transaction***

A *transaction* which occurs when the applicable *trading interval* specified in a *reallocation request* occurs and the *reallocation request* has been registered and not deregistered before the expiration of the *trading interval*.

***Reallocator***

A person registered as a Reallocator by *AEMO* in accordance with rule 2.5B.

***rebid***

A variation to a bid or offer made in accordance with clause 3.8.22(b).

***reconnect, reconnected, reconnection***

The operation of switching equipment or other action so as to enable the flow of electricity at a *connection point* following a *disconnection*.

***Referred Affected Participant***

An *Affected Participant* who has a claim referred to an independent expert pursuant to clauses 3.12.2(l) or 3.12.2(m).

***Referred Directed Participant***

A *Directed Participant* who has a claim referred to an independent expert pursuant to clauses 3.15.7B(c) or 3.15.7B(d).

***Referred Market Customer***

A *Market Customer* who has a claim referred to an independent expert pursuant to clauses 3.12.2(l) or 3.12.2(m).

***region, regional***

An area determined by the *AEMC* in accordance with Chapter 2A, being an area served by a particular part of the *transmission network* containing one or more major *load centres* or *generation centres* or both.

***regional benefit directions procedures***

Has the meaning given in clause 3.15.8(b2).

***regional reference node***

A location on a *transmission* or *distribution network* to be determined for each *region* by the *AEMC* in accordance with Chapter 2A.

***regional reference price***

*Spot price* at the *regional reference node*.

***regional specific power system operating procedures***

The procedures described in clause 4.10.1(a)(3).

***Regions Publication***

The document *published* by *AEMO* under clause 2A.1.3 that provides a list of all *regions*, *regional reference nodes* and the *region* to which each *market connection point* is assigned.

***Registered Participant***

A person who is registered by *AEMO* in any one or more of the categories listed in rules 2.2 to 2.7. However:

- (a) in the case of a person who is registered by *AEMO* as a *Trader*, such a person is only a *Registered Participant* for the purposes referred to in rule 2.5A;

- (b) in the case of a person who is registered by *AEMO* as a *Metering Coordinator*, such a person is only a *Registered Participant* for the purposes referred to in clause 2.4A.1(d);
- (c) as set out in rule 2.11.1A, for the purposes of rule 2.11 only, *Third Party B2B Participants* (other than *Third Party B2B Participants* who are also *Embedded Network Managers*) are also deemed to be *Registered Participants*;
- (d) as set out in clause 8.2.1(a1) and 8.2A.2(b), for the purposes of some provisions of rule 8.2 only, *AEMO*, *Connection Applicants*, *Metering Providers*, *Metering Data Providers*, *Third Party B2B Participants* and *B2B Change Parties* who are not otherwise *Registered Participants* are also deemed to be *Registered Participants*;
- (e) as set out in clause 8.6.1A, for the purposes of Part C of Chapter 8 only, *Metering Providers*, *Metering Data Providers* and *Third Party B2B Participants* who are not otherwise *Registered Participants* are also deemed to be *Registered Participants*; and
- (f) as set out in clause 4.8.12(a3), for the purposes of Part C of Chapter 8 only, *Jurisdictional System Security Coordinators* are also deemed to be *Registered Participants*.

***Registered Participant Agent***

An agent of a *Registered Participant* appointed under clause 4.11.5.

***registration category***

Has the meaning given in clause 3.15.21(c1)(1).

***regulated interconnector***

An *interconnector* which is referred to in clause 11.8.2 of the *Rules* and is subject to *transmission service* regulation and pricing arrangements in Chapter 6A.

***regulating capability***

The capability to perform *regulating duty*.

***regulating capability constraints***

*Constraints* on the formulation of a realisable *dispatch* or *predispatch schedule* due to the need to provide for *regulating capability*.

***regulating duty***

In relation to a *generating unit*, the duty to have its *generated* output adjusted frequently so that any *power system frequency* variations can be corrected.

***regulating lower service***

The service of controlling the level of *generation* or *load* associated with a particular *facility*, in accordance with the requirements of the *market ancillary service specification*, in accordance with electronic signals from *AEMO* in order to lower the *frequency* of the *power system*.

***regulating raise service***

The service of controlling the level of *generation* or *load* associated with a particular *facility*, in accordance with the requirements of the *market ancillary service specification*, in accordance with electronic signals from *AEMO* in order to raise the *frequency* of the *power system*.

***regulation services***

The *regulating raise service* and *regulating lower service*.

***regulatory change event***

A change in a *regulatory obligation* or *requirement* that:

- (a) falls within no other category of *pass through event*; and
- (b) occurs during the course of a *regulatory control period*; and
- (c) substantially affects the manner in which the *Transmission Network Service Provider* provides *prescribed transmission services* or the *Distribution Network Service Provider* provides *direct control services* (as the case requires); and
- (d) *materially* increases or *materially* decreases the costs of providing those services.

***regulatory control period***

- (a) In respect of a *Transmission Network Service Provider*, a period of not less than 5 *regulatory years* in which a *total revenue cap* applies to that provider by virtue of a *revenue determination*.
- (b) In respect of a *Distribution Network Service Provider*, a period of not less than 5 *regulatory years* for which the provider is subject to a control mechanism imposed by a distribution determination.

***regulatory information instrument***

Has the meaning given in the *National Electricity Law*.

***regulatory investment test for distribution***

The test developed and *published* by the *AER* in accordance with clauses 5.17.1 and 5.17.2, as in force from time to time, and includes amendments made in accordance with clause 5.17.2.

***regulatory investment test for transmission***

The test developed and *published* by the *AER* in accordance with clauses 5.16.1 and 5.16.2, as in force from time to time, and includes amendments made in accordance with clause 5.16.2.

***regulatory obligation or requirement***

Has the meaning assigned in the Law.

***regulatory proposal***

A proposal (by a *Distribution Network Service Provider*) under rule 6.8.

***regulatory year***

Each consecutive period of 12 calendar months in a *regulatory control period*, the first such 12 month period commencing at the beginning of the *regulatory control period* and the final 12 month period ending at the end of the *regulatory control period*. For *AEMO*, each *financial year* is a *regulatory year*.

***related body corporate***

In relation to a body corporate, a body corporate that is related to the first-mentioned body by virtue of the *Corporations Act 2001* (Cth).

***releasable user guide***

A document associated with a functional block diagram and model source code provided under clause S5.2.4(b) (combined, forming the **model**), that contains sufficient information to enable a *Registered Participant* to use model source code provided under clause 3.13.3(l) to carry out *power system* studies for planning and operational purposes. The information in a releasable user guide must include, but is not limited to:

- (1) the **model** parameters and their values;
- (2) information about how the **model** parameter values vary with the operating state or output level of the *plant* or with the operating state or output level of any associated *plant*;
- (3) instructions relevant to the use and operation of the model source code provided under clause 3.13.3(l);
- (4) settings of *protection systems* that are relevant to load flow or dynamic simulation studies;
- (5) information provided in accordance with Schedule 5.5 only to the extent that the information is not a part of the **model** or the **model** parameters and that is reasonably necessary to allow modelling of the *generating unit*, *generating system* or related *plant* in *power system* load flow or dynamic simulation studies;

- (6) *connection point* details including its parameters and values, location, network augmentations or modifications and other relevant connection information;
- (7) in regards to any relevant *generating unit* or *generating 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* submits a proposal to alter a *connected generating system* or a *generating system*, for which *performance standards* have previously been accepted by *AEMO*, under clause 5.3.9;
  - (iv) the *Generator* is notified that the *Network Service Provider* and *AEMO* are satisfied with the proposed alterations to the *generating plant* under clause 5.3.10;
  - (v) *connection*;
  - (vi) commencement of commissioning; and
  - (vii) conclusion of commissioning; and
- (8) the date this document was prepared or updated.

***relevant AEMO intervention event***

A *AEMO intervention event* that involves the exercise of the *reliability and emergency reserve trader* in accordance with rule 3.20 as referred to in paragraph (b) of the definition of *AEMO intervention event*.

***relevant tax***

Any tax payable by a *Transmission Network Service Provider* or a *Distribution Network Service Provider* other than:

- (a) income tax and capital gains tax;
- (b) stamp duty, financial institutions duty and bank accounts debits tax;
- (c) penalties, charges, fees and interest on late payments, or deficiencies in payments, relating to any tax; or
- (d) any tax that replaces or is the equivalent of or similar to any of the taxes referred to in paragraphs (a) to (b) (including any State equivalent tax).

***Relevant Transmission Network Service Provider, Relevant TNSP***

In respect of clause 5.7.7 has the meaning given in clause 5.7.7(a).

***reliability***

The probability of a system, device, *plant* or equipment performing its function adequately for the period of time intended, under the operating conditions encountered.

***reliability and emergency reserve trader (RERT)***

The actions taken by *AEMO* as referred to in clause 3.20.2, in accordance with rule 3.20, to ensure reliability of *supply*.

***reliability augmentation***

A *transmission network augmentation* that is necessitated principally by inability to meet the minimum *network* performance requirements set out in schedule 5.1 or in relevant legislation, regulations or any statutory instrument of a *participating jurisdiction*.

***Reliability Panel***

The panel established by the *AEMC* under section 38 of the *National Electricity Law*.

***reliability settings***

The following market settings:

- (a) the *market price cap*;
- (b) the *cumulative price threshold*;
- (c) the *market floor price*; and
- (d) the *administered price cap*.

***reliability standard***

The standard specified in clause 3.9.3C.

***reliability standard and settings guidelines***

The guidelines developed under clause 3.9.3A(a).

***reliability standard and settings review***

A review of the *reliability standard* and the *reliability settings*, including the manner of indexing the *market price cap* and the *cumulative price threshold*, conducted in accordance with clause 3.9.3A.

***reliability standard implementation guidelines***

The guidelines developed under clause 3.9.3D.

***reliable***

The expression of a recognised degree of confidence in the certainty of an event or action occurring when expected.

***reliable operating state***

In relation to the *power system*, has the meaning set out in clause 4.2.7.

***remote acquisition***

The acquisition of *interval metering data* from a *telecommunications network* connected to a *metering installation* that:

- (a) does not, at any time, require the presence of a person at, or near, the *interval metering installation* for the purposes of data collection or data verification (whether this occurs manually as a walk-by reading or through the use of a vehicle as a close proximity drive-by reading); and
- (b) includes but is not limited to methods that transmit data via:
  - (1) fixed-line telephone ('direct dial-up');
  - (2) satellite;
  - (3) the internet;
  - (4) wireless or radio, including mobile telephone networks;
  - (5) power line carrier; or
  - (6) any other equivalent technology.

**Note:**

For the requirements of clause 7.8.9(b) *remote acquisition* may collect data other than *interval metering data*.

***remote control equipment***

Equipment used to control the operation of elements of a *power station* or *substation* from a *control centre*.

***remote monitoring equipment***

Equipment installed to enable monitoring of a *facility* from a *control centre*.

***representative***

In relation to a person, any employee, agent or professional adviser of:

- (a) that person; or
- (b) a *related body corporate* of that person; or



- (c) a third party contractor to that person.

***required pass through amount***

In respect of a *negative change event* for a *Transmission Network Service Provider*, the costs in the provision of *prescribed transmission services* that, as a result of that *negative change event*, the *Transmission Network Service Provider* has saved and is likely to save (as opposed to the revenue impact of that event) until:

- (a) unless paragraph(b) applies – the end of the *regulatory control period* in which the *negative change event* occurred; or
- (b) if the *transmission determination* for the *regulatory control period* following that in which the *negative change event* occurred does not make any allowance for the pass through of the saved costs (whether or not in the forecast operating expenditure or forecast capital expenditure accepted or substituted by the AER for that *regulatory control period*) – the end of the *regulatory control period* following that in which the *negative change event* occurred.

In respect of a *negative change event* for a *Distribution Network Service Provider*, the costs in the provision of *direct control services* that, as a result of the *negative change event*, the *Distribution Network Service Provider* has saved and is likely to save (as opposed to the revenue impact of that event) until:

- (a) unless paragraph(b) applies – the end of the *regulatory control period* in which the *negative change event* occurred; or
- (b) if the distribution determination for the *regulatory control period* following that in which the *negative change event* occurred does not make any allowance for the pass through of the saved costs (whether or not in the forecast operating expenditure or forecast capital expenditure accepted or substituted by the AER for that *regulatory control period*) – the end of the *regulatory control period* following that in which the *negative change event* occurred.

***RERT guidelines***

The guidelines developed and *published* by the *Reliability Panel* under clause 3.20.8.

***RERT principles***

The principles referred to in clause 3.20.2(b).

***reserve***

*Scheduled reserve* or *unscheduled reserve*.

***reserve contract***

A *scheduled reserve contract* or an *unscheduled reserve contract*.

***reserve level declaration guidelines***

The guidelines *published by AEMO* under clause 4.8.4A(a).

***response breakpoint***

- (a) In relation to a *market ancillary service offer* to raise the *frequency* of the *power system*, the level of associated *generation* or *load* (in MW) above which the amount of response specified in the *offer* reduces with increased *generation* or *load* level; and
- (b) in relation to a *market ancillary service offer* to lower the *frequency* of the *power system*, the level of associated *generation* or *load* (in MW) below which the amount of response specified in the *offer* reduces with decreased *generation* or *load* level.

***response capability***

- (a) In relation to a *market ancillary service offer* to raise the *frequency* of the *power system*, the amount of the response in (MW) which is specified in the *offer* for every level of associated *generation* or *load* below the associated *response breakpoint*; and
- (b) in relation to a *market ancillary service offer* to lower the *frequency* of the *power system*, the amount of the response in (MW) which is specified in the *offer* for every level of associated *generation* or *load* above the associated *response breakpoint*.

***responsible person***

For the purposes of the *National Energy Retail Law*, the *Metering Coordinator*.

**Note:**

References to 'responsible person' in the *Rules* or a document produced under the *Rules* are deemed to be references to the *Metering Coordinator* under clause 11.86.4.

***restricted asset***

An item of equipment that is electrically connected to a *retail customer's connection point* at a location that is on the same side of that *connection point* as the *metering point*, but excludes:

- (a) such an item of equipment where that *retail customer* is a *Distribution Network Service Provider* and that *Distribution Network Service Provider* is the *Local Network Service Provider* for that *connection point*; or
- (b) a *network device*.

***restriction demand reduction***

The reduction in a *Market Customer's* demand due to the imposition of *mandatory restrictions* as reasonably determined by an independent expert in accordance with clause 3.12A.7. For the avoidance of doubt, the reduction of a

*Market Customer's demand* due to the imposition of *mandatory restrictions* should exclude any reduction in its demand which the *Market Customer* claims was due to the operation of *generation* and as reasonably verified by the independent expert in a similar manner to that used by the independent expert to determine restrictions due to demand management.

***restriction offer***

An offer by a *Scheduled Generator* or a *Scheduled Network Service Provider* to provide capacity to *AEMO* for all or part of a *mandatory restriction period* made in accordance with the *restriction offer procedures*.

***restriction offer procedures***

The procedures developed by *AEMO* in accordance with clause 3.12A.1.

***restriction shortfall amount***

The amount determined in accordance with clause 3.12A.7(b).

***retail billing period***

Has (in the context of Chapter 6B) the meaning given in clause 6B.A1.2.

***retail customer***

A *small customer* or a *large customer*.

**Note:**

In the context of Chapter 5A, the above definition has been supplemented by a definition specifically applicable to that Chapter, See clause 5A.A.1.

***Retail Market Procedures***

Procedures made under these *Rules* for or in *connection* with the sale and *supply* of electricity to *retail customers* or the operation of retail electricity *markets* including:

- (a) *B2B procedures*; and
- (b) the *Market Settlement and Transfer Solution Procedures*; and
- (c) the *metrology procedures*; and
- (d) other procedures dealing with, or incidental to, the retail sale or *supply* of electricity or related services.

***retailer***

Has the same meaning as in the *National Electricity Law*.

Otherwise, a *Customer* who engages in the activity of selling electricity to end users.

***retailer insolvency costs***

For a *Distribution Network Service Provider*:

- (a) *billed but unpaid charges*;
- (b) the actual amount of unbilled *network charges* accrued by a *failed retailer*; and
- (c) other costs that the *Distribution Network Service Provider* has incurred or is likely to incur as a result of a *retailer insolvency event*.

***retailer insolvency event***

The failure of a *retailer* during a *regulatory control period*, to pay a *Distribution Network Service Provider* an amount to which the service provider is entitled for the provision of *direct control services*, if:

- (a) an *insolvency official* has been appointed in respect of that *retailer*; and
- (b) the *Distribution Network Service Provider* is not entitled to payment of that amount in full under the terms of any *credit support* provided in respect of that *retailer*.

***Retailer Member***

A person nominated and elected as a *Member* by *Retailer Member Voters* to represent *Retailer Member Voters* in accordance with the *Rules* (including clause 7.17.10(f)) and *Information Exchange Committee Election Procedures*.

***Retailer Member Voters***

*Retailers* and *Local Retailers*.

***retailer planned interruption***

- (a) In a *participating jurisdiction* where the *National Energy Retail Rules* apply as a law of that *participating jurisdiction*, has the meaning given in the *National Energy Retail Rules*.
- (b) Otherwise, if defined in *jurisdictional electricity legislation*, has the meaning given in *jurisdictional electricity legislation*.

***revenue determination***

A determination referred to in clause 6A.2.2(1) and rule 6A.4 as substituted (if at all) pursuant to clause 6A.7.1 or rule 6A.15 or as amended pursuant to clause 6A.8.2.

***Revenue Proposal***

For a *Transmission Network Service Provider*, a proposal submitted or resubmitted by the *Transmission Network Service Provider* to the *AER* pursuant to clause 6A.10.1(a), clause 6A.11.2 or clause 6A.12.3(a) (as the context requires).

***review***

An examination of the specified matters conducted to the standard specified for a "review" in Auditing Standard AUS106: "Explanatory Framework for standards on Audit and Audit Related Services" prepared by the Auditing Standards Board, as varied from time to time.

***revised statement***

A statement issued by AEMO under clause 3.15.19 following the resolution of a dispute regarding a *final statement*.

***rise time***

In relation to a *control system*, the time taken for an output quantity to rise from 10% to 90% of the maximum change induced in that quantity by a step change of an input quantity.

***RMS phase voltage***

The *voltage of supply* measured as the average of the root mean square of the *voltages* between each pair of phases.

***roll forward model***

According to context:

- (a) the model developed and published by the AER for the roll forward of the regulatory asset base for *transmission systems* in accordance with clause 6A.6.1;
- (b) the model developed and published by the AER for the roll forward of the regulatory asset base for *distribution systems* in accordance with clause 6.5.1.

***RoLR cost recovery scheme distributor payment determination***

Has the same meaning as in the *National Energy Retail Law*.

***RoLR Procedures***

Has the same meaning as in the *National Energy Retail Law*.

***RoLR***

Has the same meaning as in the *National Energy Retail Law*.

***routine revised statement***

A *settlement statement* issued by AEMO under clause 3.15.19(b).

***Rule fund***

A fund referred to in clause 1.11(a).

## ***Rules***

The rules called the National Electricity Rules made under Part 7 of the *National Electricity Law* as amended from time to time in accordance with that Part.

## ***Rules bodies***

Any person or body, other than *AEMO*, the *AER*, the *AEMC*, or the *ACCC*, that is appointed or constituted by the *Rules* to perform functions under the *Rules*.

## ***Rules consultation procedures***

The procedures for consultation with *Registered Participants* or other persons as set out in clause 8.9.

## ***satisfactory operating state***

In relation to the *power system*, has the meaning given in clause 4.2.2.

## ***scheduled generating unit***

- (a) A *generating unit* so classified 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 *generating units* referred to in paragraph (a) that have been aggregated in accordance with clause 3.8.3.

## ***scheduled generating system***

A *generating system* comprising *scheduled generating units*.

## ***Scheduled Generator***

A *Generator* in respect of which any *generating unit* is classified as a *scheduled generating unit* in accordance with Chapter 2.

## ***scheduled high price***

The dollar amount per MWh or MW, as the case may be, determined as such by *AEMO* pursuant to clause 3.3.17.

## ***scheduled load***

- (a) A *market load* which has been classified by *AEMO* in accordance with Chapter 2 as a *scheduled load* at the *Market Customer's* request. Under Chapter 3, a *Market Customer* may submit *dispatch bids* in relation to *scheduled loads*.
- (b) For the purposes of Chapter 3 (except clause 3.8.3A(b)(1)(ii)) and rule 4.9, two or more *scheduled loads* referred to in paragraph (a) that have been aggregated in accordance with clause 3.8.3.

***scheduled low price***

The dollar amount per MWh or MW, as the case may be, determined as such by AEMO pursuant to clause 3.3.17.

***scheduled network service***

- (a) A *network service* which is classified as a *scheduled network service* in accordance with Chapter 2.
- (b) For the purposes of Chapter 3 (except clause 3.8.3A(b)(1)(ii)) and rule 4.9, two or more *scheduled network services* referred to in paragraph (a) that have been aggregated in accordance with clause 3.8.3.

***Scheduled Network Service Provider***

A *Network Service Provider* who has classified any of its *network services* as a *scheduled network service*.

***scheduled plant***

In respect of a *Registered Participant*, a *scheduled generating unit*, a *semi-scheduled generating unit*, a *scheduled network service* or a *scheduled load* classified by or in respect to that *Registered Participant* in accordance with Chapter 2.

***scheduled reserve***

The amount of surplus or unused capacity:

- (a) of *scheduled generating units*;
- (b) of *scheduled network services*; or
- (c) arising out of the ability to reduce *scheduled loads*.

***scheduled reserve contract***

A contract entered into by AEMO for the provision of *scheduled reserve* in accordance with rule 3.20.

***scheduling error***

*Scheduling error* means any of the events described in clause 3.8.24(a).

***secondary equipment***

Those assets of a *Market Participant's facility* which do not carry the *energy* being traded, but which are required for control, protection or operation of assets which carry such *energy*.

***Second-Tier Customer***

A *Customer* which has classified any *load* as a *second-tier load* in accordance with Chapter 2.

***second-tier load***

Electricity purchased at a *connection point* in its entirety other than directly from the *Local Retailer* or the *spot market* and which is classified as a *second-tier load* in accordance with Chapter 2.

***secure operating level of inertia***

For an *inertia sub-network*, the *secure operating level of inertia* determined by AEMO and referred to in clause 5.20B.2(b)(2).

***secure operating state***

In relation to the *power system* has the meaning given in clause 4.2.4.

***self-commitment, self-commit***

*Commitment*, where the decision to *commit* a *generating unit* was made by the relevant *Generator* without instruction or direction from AEMO.

***self-decommitment***

*Decommitment*, where the decision to *decommit* a *generating unit* was made by the relevant *Generator* without instruction or direction from AEMO.

***semi-dispatch interval***

For a *semi-scheduled generating unit*, a *dispatch interval* for which either:

- (a) a *network constraint* would be violated if the *semi-scheduled generating unit's generation* were to exceed the *dispatch level* specified in the related *dispatch instruction* at the end of the *dispatch interval*; or
- (b) the *dispatch level* specified in that *dispatch instruction* is less than the *unconstrained intermittent generation forecast* at the end of the *dispatch interval*,

and which is notified by AEMO in that *dispatch instruction* to be a *semi-dispatch interval*.

***self-dispatch level***

The level of *generation* in MW, as specified in a *dispatch offer* for a *generating unit* and a *trading interval*, which is the level at which that *generating unit* must be *dispatched* by AEMO in that *trading interval* unless otherwise *dispatched* in accordance with clause 3.8 or unless required to operate under a *direction* issued by AEMO in accordance with clause 4.8.9.

***semi-scheduled generating system***

A *generating system* comprising *semi-scheduled generating units*.

***semi-scheduled generating unit***

- (a) A *generating unit* classified in accordance with clause 2.2.7.



- (b) For the purposes of Chapter 3 and rule 4.9, two or more *generating units* referred to in paragraph (a) that have been aggregated in accordance with clause 3.8.3.

***Semi-Scheduled Generator***

A *Generator* in respect of which any *generating unit* is classified as a *semi-scheduled generating unit* in accordance with Chapter 2.

***sensitive loads***

*Loads* defined as sensitive for each *participating jurisdiction* by the *Jurisdictional System Security Coordinator* for that *participating jurisdiction*.

***sent out generation***

In relation to a *generating unit*, the amount of electricity *supplied* to the *transmission* or *distribution network* at its *connection point*.

***Service Applicant***

A person who asks a *Distribution Network Service Provider* for access to a *distribution service*.

***service level procedures***

The procedures established by *AEMO* in accordance with clause 7.16.6.

***service standard event***

A legislative or administrative act or decision that:

- (a) has the effect of:
  - (i) substantially varying, during the course of a *regulatory control period*, the manner in which a *Transmission Network Service Provider* is required to provide a *prescribed transmission service*, or a *Distribution Network Service Provider* is required to provide a *direct control service*; or
  - (ii) imposing, removing or varying, during the course of a *regulatory control period*, minimum service standards applicable to *prescribed transmission services* or *direct control services*; or
  - (iii) altering, during the course of a *regulatory control period*, the nature or scope of the *prescribed transmission services* or *direct control services*, provided by the service provider; and
- (b) *materially* increases or *materially* decreases the costs to the service provider of providing *prescribed transmission services* or *direct control services*.

***service target performance incentive scheme***

A For a *Transmission Network Service Provider* – a scheme developed and published by the AER in accordance with clause 6A.7.4.

For a *Distribution Network Service Provider* – a scheme developed and published by the AER in accordance with clause 6.6.2.

***settlement amount***

The amount calculated by AEMO pursuant to clause 3.15.12.

***settlement statement***

Includes an *interim statement*, *preliminary statement* and *final statement*.

***settlements***

The activity of producing bills and credit notes for *Market Participants*.

***settlements ready data***

The *metering data* that has undergone a validation and substitution process by AEMO for the purpose of *settlements* and is held in the *metering database*.

***settlements residue***

Any surplus or deficit of funds retained by AEMO upon completion of *settlements* to all *Market Participants* in respect of a *trading interval*, being either *inter-regional settlements residue* or *intra-regional settlements residue*.

***settlement residue committee***

The committee established by AEMO in accordance with clause 3.18.5.

***settlement residue distribution agreement* or *SRD agreement***

Has the meaning given in clause 3.18.1(b).

***settling time***

In relation to a *control system*, the time measured from initiation of a step change in an input quantity to the time when the magnitude of error between the output quantity and its final settling value remains less than 10% of:

- (a) if the sustained change in the quantity is less than half of the maximum change in that output quantity, the maximum change induced in that output quantity; or
- (b) the sustained change induced in that output quantity.

***Shared Asset Guidelines***

Guidelines made by the AER under clause 6.4.4(d) or clause 6A.5.5(d), as the case may be.

***shared asset principles***

Has the meaning given to it by clause 6.4.4(c) or clause 6A.5.5(c), as the case may be.

***shared customer***

Has (in the context of Chapter 6B) the meaning given in clause 6B.A1.2.

***shared distribution service***

A service provided to a *Distribution Network User* for use of a *distribution network* for the conveyance of electricity (including a service that ensures the integrity of the related *distribution system*).

***shared network capability service***

Has the meaning given in the *National Electricity Law*.

***shared transmission service***

A service provided to a *Transmission Network User* for use of a *transmission network* for the conveyance of electricity (including a service that ensures the integrity of the related *transmission system*).

***short circuit fault***

A fault having a metallic conducting path between any two or more conductors or between any conductor and ground, including touching conductors and faults through earthing facilities, and excluding faults within equipment at a station.

***short term PASA***

The *PASA* in respect of the period described in clause 3.7.3(b), as described under clause 3.7.3.

***short term PASA inputs***

The inputs to be prepared in accordance with clauses 3.7.3(d) and (e).

***shunt capacitor***

A type of *plant connected to a network* to generate *reactive power*.

***shunt reactor***

A type of *plant connected to a network* to absorb *reactive power*.

***single contingency***

In respect of a *transmission* or *distribution network* and *Network Users*, a sequence of related events which result in the removal from service of one *Network User*, *transmission* or *distribution line*, or *transformer*. The sequence of events may include the application and clearance of a fault of defined severity.

***slow lower service***

The service of providing, in accordance with the requirements of the *market ancillary service specification*, the capability of controlling the level of *generation* or *load* associated with a particular *facility* in response to the locally sensed *frequency* of the *power system* in order to stabilise a rise in that *frequency*.

***slow raise service***

The service of providing, in accordance with the requirements of the *market ancillary service specification*, the capability of controlling the level of *generation* or *load* associated with a particular *facility* in response to the locally sensed *frequency* of the *power system* in order to stabilise a fall in that *frequency*.

***slow start generating unit***

A *generating unit* described in clause 3.8.17(a).

***slow start reserve generating unit***

A *slow start generating unit* providing *scheduled reserve*.

***small customer***

- (a) In a *participating jurisdiction* where the *National Energy Retail Law* applies as a law of that *participating jurisdiction*, has the meaning given in the *National Energy Retail Law*.
- (b) Otherwise, has the meaning given in *jurisdictional electricity legislation*.

***small customer metering installation***

A *metering installation* in respect of the *connection point* of a *small customer* which meets the *minimum services specification* or which is required to meet the *minimum services specification* under clause 7.8.3(a), clause 7.8.4(c) or clause 7.8.4(h)(2).

***small dedicated connection asset***

A *dedicated connection asset* that is not a *large dedicated connection asset*.

***small generating unit***

A *generating unit*:

- (a) with a *nameplate rating* that is less than 30MW; and
- (b) which is owned, controlled or operated by a person that *AEMO* has exempted from the requirement to register as a *Generator* in respect of that *generating unit* in accordance with clause 2.2.1(c).

***Small Generation Aggregator***

A person who:

- (a) intends to supply, or supplies, electricity from one or more *small generating units* that are connected to a *transmission or distribution system*; and
- (b) is registered by AEMO as a *Small Generation Aggregator* under Chapter 2.

***small-scale incentive scheme***

A scheme developed and *published* by the AER in accordance with clause 6.6.4 or clause 6A.7.5, as the case may be.

***Special Participant***

A *System Operator* or a *Distribution System Operator*.

***special revised statement***

A *settlement statement* issued by AEMO under clause 3.15.19(a)(3).

***spot market***

The spot market established and operated by AEMO in accordance with clause 3.4.1.

***spot market transaction***

A transaction as defined pursuant to clause 3.15.6 which occurs in the *spot market*.

***spot price***

The price for electricity in a *trading interval* at a *regional reference node* or a *connection point* as determined in accordance with clause 3.9.2.

***spot price forecast***

A forecast of the *spot price*.

***SRAS Guideline***

The guideline developed and *published* by AEMO in accordance with clause 3.11.7(c) as in force from time to time and includes amendments made in accordance with clauses 3.11.7(f) and 3.11.7(g).

***SRAS Objective***

The objective for *system restart ancillary services* is to minimise the expected costs of a *major supply disruption*, to the extent appropriate having regard to the *national electricity objective*.

***SRAS Provider***

A person who agrees to provide one or more *system restart ancillary services* to AEMO under an *ancillary services agreement*.

***SRAS Procurement Objective***

Has the meaning given in clause 3.11.7(a1).

***SRD unit***

A unit that represents a right for an *eligible person* to receive a portion of the net *settlements residue* under clause 3.6.5 allocated to a *directional interconnector* for the period specified in a *SRD agreement* entered into between that *eligible person* and AEMO in respect of that right.

***stand-alone amount***

For a *category of prescribed transmission services*, the costs of a *transmission system* asset that would have been incurred had that *transmission system* asset been developed, exclusively to provide that *category of prescribed transmission services*.

***standard connection service***

Has (in the context of Chapter 5A) the meaning given in clause 5A.A.1.

***standard control service***

A *direct control service* that is subject to a control mechanism based on a *Distribution Network Service Provider's total revenue requirement*.

***Standards Australia***

The Standards Association of Australia and includes its heirs or successors in business.

***statement of charges***

Has (in the context of Chapter 6B) the meaning given in clause 6B.A1.2.

***statement of opportunities***

A statement prepared by AEMO to provide information to assist *Scheduled Generators*, *Semi-Scheduled Generators*, *Transmission Network Service Providers* and *Market Participants* in making an assessment of the future need for electricity generating or demand management capacity or augmentation of the *power system*.

***static excitation system***

An *excitation control system* in which the power to the rotor of a *synchronous generating unit* is transmitted through high power solid-state electronic devices.

***static VAR compensator***

A device specifically provided on a *network* to provide the ability to generate and absorb *reactive power* and to respond automatically and rapidly to *voltage* fluctuations or *voltage* instability arising from a disturbance or disruption on the *network*.

***substation***

A *facility* at which two or more lines are switched for operational purposes. May include one or more *transformers* so that some *connected* lines operate at different nominal *voltages* to others.

***substituted metering data***

The substituted values of *accumulated metering data*, *interval metering data* or *calculated metering data* prepared in accordance with the *metrology procedure*. *Substituted metering data* is held in a *metering data services database* and the *metering database*.

***super majority***

At least 70% of the number of *Members*.

***supplementary carbon dioxide equivalent intensity indicator***

Any indicators relating to a subset of *scheduled generating units* and *market generating units* published by *AEMO* in accordance with clause 3.13.14(h).

***supply***

The delivery of electricity.

***supply service***

Has (in the context of Chapter 5A) the meaning given in clause 5A.A.1

***survey period***

An agreed sample period used to determine the allocation of costs and prices for use of *transmission network* or *distribution network* assets.

***suspended region***

A region in which the *spot market* is suspended in accordance with clause 3.14.4.

***suspension notice***

A notice issued by *AEMO* to a *defaulting Market Participant* pursuant to clause 3.15.21(c) or (c1) under which *AEMO* notifies the *defaulting Market Participant*:

- (a) of the date and time from which it is suspended from specified activities;
- (b) the *registration categories* of the *defaulting Market Participant* to which the suspension relates; and
- (c) in respect of the *registration categories* referred to in paragraph (b), the activities (or subset of activities) of the *Market Participant* that have been suspended.

***switchyard***

The *connection point* of a *generating unit* into the *network*, generally involving the ability to *connect* the *generating unit* to one or more outgoing *network* circuits.

***Sydney time***

*Eastern Standard Time* or *Eastern Daylight Saving Time* as applicable in Sydney.

***synchronise***

The act of *synchronising* a *generating unit* or a *scheduled network service* to the *power system*.

***synchronising, synchronisation***

To electrically *connect* a *generating unit* or a *scheduled network service* to the *power system*.

***synchronous condensers***

Apparatus or equipment similar in construction to a *synchronous generating unit*, which operates at the equivalent speed of the *frequency* of the *power system*.

***synchronous generating unit***

The alternating current generators of most thermal and hydro (water) driven power turbines which operate at the equivalent speed of the *frequency* of the *power system* in its *satisfactory operating state*.

***synchronous generator voltage control***

The automatic *voltage control system* of a *generating unit* of the *synchronous generator* category which changes the output *voltage* of the *generating unit* through the adjustment of the generator rotor current and effectively changes the *reactive power* output from that *generating unit*.

***System Operator***

A person whom *AEMO* has engaged as its agent, or appointed as its delegate, under clause 4.3.3 to carry out some or all of *AEMO*'s rights, functions and obligations under Chapter 4 of the *Rules* and who is registered by *AEMO* as a *System Operator* under Chapter 2.

***system restart ancillary service* or *SRAS***

A service provided by *facilities* with *black start capability* which allows:

- (a) *energy* to be supplied; and
- (b) a *connection* to be established,

sufficient to restart large *generating units* following a *major supply disruption*.



***system restart plan***

The plan described in clause 4.8.12(a).

***system restart standard***

The standard as determined by the *Reliability Panel* in accordance with clause 8.8.3(aa), for the acquisition of *system restart ancillary services*.

***system standard***

A standard for the performance of the *power system* as set out in schedule 5.1a.

***system strength connection works***

Investment in a *transmission or distribution system* in order to remedy or avoid an *adverse system strength impact* arising from establishing a *connection* for a *generating system* or *market network service facility* or from any alteration to a *generating system* to which clause 5.3.9 applies.

***system strength generating unit***

A *generating unit* registered with AEMO under clause 5.20C.4(b).

***system strength impact assessment***

*Power system* studies to assess the impact of the *connection* of a new *generating system* or *market network service facility* or of any proposed alteration to a *generating system* to which clause 5.3.9 applies on the ability under different operating conditions of:

- (a) the *power system* to maintain system stability in accordance with clause S5.1a.3; and
- (b) *generating systems* and *market network service facilities* forming part of the *power system* to maintain stable operation including following any *credible contingency event* or *protected event*,

so as to maintain the *power system* in a *secure operating state*.

***system strength impact assessment guidelines***

The guidelines for conducting *system strength impact assessments* developed by AEMO under clause 4.6.6.

***system strength remediation scheme***

A scheme agreed or determined under clause 5.3.4B required to be implemented as a condition of a *connection agreement* to remedy or avoid an *adverse system strength impact*.

***system strength requirements***

The matters determined by AEMO for a *region* under clause 5.20C.1(a).

***system strength requirements methodology***

The process *AEMO* uses to determine the *system strength requirements* for each *region published* by *AEMO* under clause 5.20.1(a)(3).

***system strength service***

A service for the provision of a contribution to the *three phase fault level* at a *fault level node*.

***system strength service payment***

A payment by a *Transmission Network Service Provider* made under a *system strength services agreement* where:

- (a) the payment is made for *system strength services* to be made available or provided as a service to the *Transmission Network Service Provider* in its capacity as a *System Strength Service Provider* to satisfy an obligation under clause 5.20C.3; and
- (b) the *system strength services* are made available or provided in accordance with applicable technical specifications and performance standards approved by *AEMO*.

***System Strength Service Provider***

The *System Strength Service Provider* for a *region* as specified under clause 5.20C.3(a).

***system strength services agreement***

An agreement made under which a person agrees to provide one or more *system strength services* to a *System Strength Service Provider*.

***system-wide benefits***

Benefits that extend beyond a *Transmission Network User*, or group of *Transmission Network Users*, at a single *transmission network connection point* to other *Transmission Network Users*.

***take or pay contract***

A contract between a buyer and a seller of an asset-based service under which the buyer undertakes to pay regularly to the seller a fixed or minimum sum regardless of the actual level of consumption of the service by the buyer. The contract has the effect of transferring market risk associated with the assets from the seller (as the owner of the assets) to the buyer.

***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

*generating unit* may have an associated tap-changing transformer, usually provided by the *Generator*.

***target capabilities***

For an *emergency frequency control scheme* means the technical parameters required to define the intended (but not guaranteed) service provided by the scheme which may include:

- (a) *power system* conditions within which the scheme is capable of responding;
- (b) the nature of the scheme's response (*load shedding* or *generation shedding* for the purposes of managing *frequency*);
- (c) the speed of the response;
- (d) the amount of *load shedding* or *generation shedding* that may occur when the scheme responds; and
- (e) capability to dynamically sense *power system* conditions.

***tariff class***

A class of *retail customers* for one or more *direct control services* who are subject to a particular tariff or particular tariffs.

***tariff structure statement***

For a *Distribution Network Service Provider*, means the *tariff structure statement* referred to in clause 6.18.1A that has been approved by the *AER* for that *Distribution Network Service Provider*.

***tax***

Any tax, levy, impost, deduction, charge, rate, rebate, duty, fee or withholding which is levied or imposed by an *Authority*.

***tax change event***

A tax change event occurs if:

- (a) any of the following occurs during the course of a *regulatory control period* for a *Transmission Network Service Provider* or a *Distribution Network Service Provider*:
  - (i) a change in a *relevant tax*, in the application or official interpretation of a *relevant tax*, in the rate of a *relevant tax*, or in the way a *relevant tax* is calculated;
  - (ii) the removal of a *relevant tax*;
  - (iii) the imposition of a *relevant tax*; and

- (b) in consequence, the costs to the service provider of providing *prescribed transmission services* or *direct control services* are materially increased or decreased.

***technical envelope***

The limits described in clause 4.2.5.

***telecommunications network***

A telecommunications network that provides access for public use or an alternate telecommunications network that has been approved by AEMO for the *remote acquisition of energy data*.

***template for generator compliance programs***

The template determined and *published* by the *Reliability Panel* under clause 8.8.3 of the *Rules*.

***terms and conditions of access***

According to context:

- (a) the terms and conditions described in clause 5.5.1(c); or
- (b) the terms and conditions described in clause 6.1.3.

***test program***

In respect of an *inter-network test*, means the program and co-ordination arrangements for the test including, without limitation:

- (1) test procedures;
- (2) the proposed timing of the test;
- (3) operational procedures to manage *power system security* during the test;
- (4) required *power system* conditions for conducting the test;
- (5) test facilitation services including, as necessary, *ancillary services* required to achieve those *power system* conditions;
- (6) criteria for continuing or concluding a test and the decision-making process relevant to the test; and
- (7) contingency arrangements.

***Third Party B2B Participant***

A *B2B e-Hub Participant* who is not also a *Distribution Network Service Provider*, *retailer*, *Local Retailer*, *Metering Coordinator*, *Metering Provider* or *Metering Data Provider*.

***Third Party B2B Participant Member***

A person who is nominated and elected as a *Member* by *Third Party B2B Participants* to represent *Third Party B2B Participants* in accordance with the *Rules* (including clause 7.17.10(h)) and the *Information Exchange Committee Election Procedures*.

***third party DCA***

A *dedicated connection asset* for which a person other than the *Primary Transmission Network Service Provider* is registered under Chapter 2.

***third party IUSA***

Those *contestable IUSA components* of an *identified user shared asset* that are not, or will not be, owned or leased by the *Primary Transmission Network Service Provider*.

***three phase fault level***

Measured in MVA at a location on a *transmission network* or a *distribution network*, the product of the pre-fault *nominal voltage* (measured in kV between a pair of phases), the fault current in each phase for a three phase fault at the location (measured in kA), and the square root of 3.

***tie***

Identically priced *dispatch bids* or *dispatch offers*.

***time***

*Eastern Standard Time*.

***time stamp***

The means of identifying the *time* and date at which data is transmitted or received.

***timetable***

The timetable published by AEMO under clause 3.4.3 for the operation of the *spot market* and the provision of *market* information.

***total revenue cap***

For a *Transmission Network Service Provider* for a *regulatory control period*, the sum of the *maximum allowed revenues* for that provider for each *regulatory year* of that *regulatory control period* as calculated in accordance with clause 6A.5.3 and set out in a *revenue determination*.

***total revenue requirement***

For a *Distribution Network Service Provider*, an amount representing revenue calculated for the whole of a *regulatory control period* in accordance with Part C of Chapter 6.

***Trader***

A person who is registered by *AEMO* as a *Trader* under Chapter 2.

***trading amount***

The positive or negative dollar amount resulting from a *transaction*, determined pursuant to clauses 3.15.6, 3.15.6A or 3.15.11.

***trading day***

The 24 hour period commencing at 4.00 am and finishing at 4.00 am on the following *day*.

***trading interval***

A 30 minute period ending on the hour (*EST*) or on the half hour and, where identified by a time, means the 30 minute period ending at that time.

***trading limit***

A dollar amount for a *Market Participant*, determined pursuant to clause 3.3.10.

***trading margin***

Has the meaning given in clause 3.3.15.

***transaction***

A *spot market transaction*, *reallocation transaction* or any other transaction either in the *market* or to which *AEMO* is a party.

***transformer***

A *plant* or device that reduces or increases the *voltage* of alternating current.

***transformer tap position***

Where a tap changer is fitted to a *transformer*, each tap position represents a change in *voltage* ratio of the *transformer* which can be manually or automatically adjusted to change the *transformer* output *voltage*. The tap position is used as a reference for the output *voltage* of the *transformer*.

***transmission***

Activities pertaining to a *transmission system* including the conveyance of electricity through that *transmission system*.

***Transmission Annual Planning Report***

A report prepared by a *Transmission Network Service Provider* under clause 5.12.2.

***Transmission Confidentiality Guidelines***

Guidelines made by the *AER* under clause 6A.16A.

***transmission consultation procedures***

The procedures set out in Part H of Chapter 6A that must be followed by:

- (a) the *AER* in making, developing or amending guidelines, models or schemes or in reviewing methodologies; or
- (b) the *AEMC* in developing or amending guidelines.

***Transmission Customer***

A *Customer*, *Non-Registered Customer* or *Distribution Network Service Provider* having a *connection point* with a *transmission network*.

***transmission determination***

Has the meaning given in the *National Electricity Law*, and includes a determination by the *AER* as described in rule 6A.2.

***transmission element***

A single identifiable major component of a *transmission system* involving:

- (a) an individual *transmission* circuit or a phase of that circuit;
- (b) a major item of *transmission plant* necessary for the functioning of a particular *transmission* circuit or *connection point* (such as a *transformer* or a circuit breaker).

***transmission investment***

Expenditure on assets and services which is undertaken by a *Transmission Network Service Provider* or any other person to address an *identified need* in respect of its *transmission network*.

***transmission line***

A power line that is part of a *transmission network*.

***transmission network***

A *network* within any *participating jurisdiction* operating at nominal *voltages* of 220kV and above plus:

- (a) any part of a *network* operating at nominal *voltages* between 66 kV and 220 kV that operates in parallel to and provides support to the higher voltage *transmission network*;
- (b) any part of a *network* operating at nominal *voltages* between 66kV and 220 kV that is not referred to in paragraph (a) but is deemed by the *AER* to be part of the *transmission network*.

For a *participating jurisdiction* other than the State of Victoria, an *identified shared user asset* owned, controlled or operated by a *Primary Transmission*

*Network Service Provider* (including a *third party IUSA* that is the subject of a *network operating agreement*) forms part of that *Primary Transmission Network Service Provider's* transmission network.

***transmission network connection point***

A connection point on a transmission network.

***Transmission Network Service Provider***

A person who engages in the activity of owning, controlling or operating a transmission system.

***Transmission Network User***

In relation to a transmission network, a *Transmission Customer* and:

- (a) a *Generator* whose generating unit;
- (b) a *Network Service Provider* whose network;
- (c) to the extent that a *Dedicated Connection Asset Service Provider* is not also one of the persons listed above, a *Dedicated Connection Asset Service Provider* whose dedicated connection asset,

is connected to the transmission network.

***transmission or distribution system***

A transmission system or distribution system that:

- 1. is used to convey, and control the conveyance of, electricity to customers (whether wholesale or retail); and
- 2. is connected to another such system.

***transmission plant***

Apparatus or equipment associated with the function or operation of a transmission line or an associated substation or switchyard, which may include transformers, circuit breakers, reactive plant and monitoring equipment and control equipment.

***Transmission Ring-Fencing Guidelines***

The Guidelines made under rule 6A.21.

***transmission service***

The services provided by means of, or in connection with, a transmission system.

***transmission services access dispute***

A dispute between a *Transmission Network Service Provider* and a *Connection Applicant* as to terms and conditions of access for the provision of prescribed



*transmission services* or for the provision of *negotiated transmission services* as referred to in clause 5.5.1(c), that is for determination by a *commercial arbitrator* under rule 5.5.

***transmission standard control service***

Has the meaning given in rule 6.25(a).

***transmission standard control service revenue***

Has the meaning given in rule 6.26(b)(1).

***transmission system***

A *transmission network*, together with the *connection assets* associated with the *transmission network*, which is *connected* to another *transmission* or *distribution system*.

For a *participating jurisdiction* other than the State of Victoria, a *transmission system* includes for the purposes of Chapter 2, a *third party DCA*, which is not a Notified Existing DCA within the meaning of clause 11.98.1.

**Note**

An *identified user shared asset* or a *dedicated connection asset* for which the *Primary Transmission Network Service Provider* is registered will form part of that provider's broader *transmission system* (even if the *dedicated connection asset* is operating at a *distribution voltage*) rather than constituting a separate *transmission system* requiring separate registration under Chapter 2. A person owning, controlling or operating a *third party DCA* is required to be registered under Chapter 2 as a *Transmission Network Service Provider*.

***transmission use of system, transmission use of system service***

A *Generator transmission use of system service* or a *Customer transmission use of system service*.

***trigger event***

For a *Distribution Network Service Provider*, in relation to a *proposed contingent project* or a *contingent project*, a specific condition or event described in clause 6.6A.1(c), the occurrence of which, during the relevant *regulatory control period*, may result in the amendment of a distribution determination under clause 6.6A.2.

For a *Transmission Network Service Provider*, in relation to a *proposed contingent project* or a *contingent project*, a specific condition or event described in clause 6A.8.1(c), the occurrence of which, during the relevant *regulatory control period*, may result in the amendment of a *revenue determination* under clause 6A.8.2.

***two-terminal link***

One or more *network elements* that together enable the transfer of *energy* between two, and only two, *connection points*.

***type 5 accumulation boundary***

The volume of *energy* for a *connection point* that has a *type 5 metering installation* above which the *metering data* must be collected as *interval metering data* for the purpose of producing *settlements ready data*.

**Note:**

Below the type 5 accumulation boundary, the metering data may be collected from the metering installation as accumulated metering data for the purpose of producing settlements ready data, in which case the metering installation must be registered with AEMO as a type 6 metering installation. Otherwise, the metering data may be collected as interval metering data for the purpose of producing settlements ready data in which case the metering installation must be registered with AEMO as a type 5 metering installation.

***typical accrual***

Has the meaning given in clause 3.3.12(a).

***uncompleted transaction***

Has the meaning given in clause 3.3.16(b).

***unconstrained***

Free of *constraint*.

***unconstrained intermittent generation forecast***

The forecast prepared by *AEMO* in accordance with rule 3.7B of the *available capacity* of each *semi-scheduled generating unit*.

***under frequency scheme***

An *emergency frequency control scheme* with capability to respond when *power system frequency* is below or falling below the *normal operating frequency band*.

***under-recovery amount***

Any amount by which the sum of the *AARR* in previous *regulatory years* exceeds the revenue earned from the provision of *prescribed transmission services* in those *regulatory years*.

***unscheduled reserve***

The amount of surplus or unused capacity:

- (a) of *generating units* (other than *scheduled generating units*); or
- (b) arising out of the ability to reduce demand (other than a *scheduled load*).

***unscheduled reserve contract***

A contract entered into by *AEMO* for the provision of *unscheduled reserve* in accordance with rule 3.20.

***unserved energy***

The amount of *energy* demanded, but not supplied, in a *region* determined in accordance with clause 3.9.3C(b), expressed as:

- (a) GWh; or
- (b) a percentage of the total *energy* demanded in that *region* over a specific period of time such as a *financial year*.

***use of system***

Includes *transmission use of system* and *distribution use of system*.

***use of system services***

*Transmission use of system service* and *distribution use of system service*.

***violation***

In relation to *power system security*, a failure to meet the requirements of Chapter 4 or the *power system security standards*.

***virtual transmission node***

A non-physical node used for the purpose of *market settlements*, having a *transmission loss factor* determined in accordance with clause 3.6.2(b)(3).

***voltage***

The electronic force or electric potential between two points that gives rise to the flow of electricity.

***voltage transformer (VT)***

A *transformer* for use with *meters* and/or protection devices in which the *voltage* across the secondary terminals is, within prescribed error limits, proportional to and in phase with the *voltage* across the primary terminals.

***Voter Category***

Means:

- (a) in respect of the *Distribution Network Service Provider Member*, *Distribution Network Service Providers*;
- (b) in respect of the *Retailer Member*, *Retailer Member Voters*, collectively;
- (c) respect of the *Metering Member*, *Metering Member Voters*, collectively; and
- (d) in respect of the *Third Party B2B Participant Member*, *Third Party B2B Participants*.