

## **CHAPTER 10**

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## 10. GLOSSARY

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### **abnormal conditions**

A condition described in clause 4.2.3(f).

### **ACCC**

Australian Competition and Consumer Commission as established under the Trade Practices Act 1974 (Cth).

### **acceptable credit criteria**

The credit criteria defined in clause 3.3.3.

### **acceptable credit rating**

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

### **accepted restriction offer**

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

### **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*. The measurement is carried out at a *metering point*.

### **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 Watthours (Wh) and multiples thereof.

### **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 3.12.11(e).

### **ADJR Act**

The Administrative Decisions (Judicial Review) Act 1977 (Cth).

### **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*).

### **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 NEMMCO 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*, with the levels of the price cap being set in accordance with clause 3.14.1 and the circumstances under which it can be invoked by NEMMCO being determined as set out in clause 3.14.2.

### **administered price period**

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

### **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.

### **Advocacy Panel**

The panel established to administer funding for end-user advocacy in the national electricity market in accordance with clause 8.10.1.

### **AEMC**

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

### **AER**

The Australian Energy Regulator, which is established by section 44AE of the Trade Practices Act 1974 (Cth).

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

Has the meaning given in clause 3.12.11(c1)(3).

## Affected Participant

In respect of a particular *direction* or *dispatch* under a *reserve contract*, as the case may be, in an *intervention price trading interval*:

- (1) a *Scheduled Generator* or *Scheduled Network Service Provider*, which was not the subject of the *direction* or whose *plant* was not *dispatched* under the *reserve contract*, that had its *dispatched* quantity affected by that *direction* or *dispatch* of *plant* under that *reserve contract*; or
- (2) a *Scheduled Generator* or *Scheduled Network Service Provider*, which was the subject of the *direction* or whose *plant* was *dispatched* under the *reserve contract*, that had its *dispatched* quantity for other *generating units* or other services which were not the subject of that *direction* or which were not *dispatched* under that *reserve contract* affected by that *direction* or *dispatch* of *plant* under that *reserve contract*, however, the *Scheduled Generating Unit* 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 were not *dispatched* under that *reserve contract*; or
- (3) an *eligible person* entitled to receive an amount from NEMMCO 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* or *dispatch* of *plant* under the *reserve contract*.

## agency data collection system

The system used by the operator of an *agency metering database* to collect, process and transfer the *metering data* from a *meter* to the NEMMCO settlements process.

## agency metering database

A *metering database* which is operated under a service level agreement with NEMMCO.

## aggregate annual revenue requirement

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 NEMMCO 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*.

## ancillary service fees

The fees determined by NEMMCO 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* 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* 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 a *Registered Participant* agrees to provide one or more *non-market ancillary services* to NEMMCO.

### **annual national transmission review or ANTS review**

The review conducted by NEMMCO in accordance with clause 5.6.5.

### **Annual National Transmission Statement or ANTS**

The statement *published* by NEMMCO in accordance with clause 5.6.5.

### **Annual Planning Report**

A report prepared by a *Transmission Network Service Provider* under clause 5.6.2A(a).

### **annual revenue requirement**

An amount representing the revenue requirement of a *Transmission Network Service Provider* (other than a *Market Network Service Provider*) for an asset calculated in accordance with clause 6.4.1(c).

### **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) the Commercial Arbitration Act 1984.
- (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 clause 5.3 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*.

### **auction**

A *settlement residue* auction held under clause 3.18.

### **auction amounts**

All amounts:

- (1) payable to *NEMMCO* or *eligible persons* under *SRD agreements*; or
- (2) distributed to *Network Service Providers* under clause 3.18.4; or
- (3) recovered by *NEMMCO* under clause 3.18.4 or the *auction rules*.

### **auction expense fees**

The costs and expenses incurred by *NEMMCO* 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 *NEMMCO* under clause 3.18.3, as amended from time to time in accordance with that clause.

### **augment, augmentation**

Works to enlarge a *network* or to increase the capability of a *network* to transmit or distribute *active energy*.

### **augmentation technical report**

A report by the *Inter-regional Planning Committee* of an *augmentation* under clause 5.6.3(j).

## **Australian Standard (AS)**

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

## **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* 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 usage charges**

The charges described in clause 5.5(h) or clause 5.5A(i) (as the case may be).

## **B2B Communications**

Communications between *Local Retailers*, *Market Customers* and *Distribution Network Service Providers* relating to an end-user or *supply* to an end-user provided for in the *B2B Procedures*.

## **B2B Data**

Data relating to *B2B Communications*.



## **B2B Decision**

A decision of *NEMMCO* 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 established by *NEMMCO* to facilitate *B2B Communications*.

## **B2B Objective**

The benefits from *B2B Communications* to *Local Retailers*, *Market Customers* and *Distribution Network Service Providers* as a whole should outweigh the detriments to *Local Retailers*, *Market Customers* and *Distribution Network Service Providers* as a whole.

## **B2B Principles**

The following principles:

- (a) *B2B Procedures* should provide a uniform approach to *B2B Communications* in *participating jurisdictions* in which there are no *franchise customers*;
- (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 *Local Retailers*, *Market Customers* and *Distribution Network Service Providers*; and
- (d) *B2B Procedures* should protect the confidentiality of commercially sensitive information.

## **B2B Procedures**

Procedures prescribing the content of, the processes for, and the information to be provided to support, *B2B Communications*.

## **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 *NEMMCO*, *Local Retailers*, *Market Customers* and *Distribution Network Service Providers*;

- (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 *NEMMCO* (having regard to such market indicators as *NEMMCO* 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*.

### **billing period**

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

### **black start capability**

1. In relation to a *generating unit*, the ability to start and *synchronise* without using supply from the *power system*.
2. In relation to a *market network service*, the ability to assist in utilising the *black start capability* of one or more *generating units* to restore normal *power system* operation from a *black system* condition.

### **black start-up facilities**

*Facilities with black start capability.*

### **black system**

The absence of *voltage* on all or a significant part of a *transmission system* or within a *region*, following a major *supply* disruption affecting one or more *power stations* and 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.

### **busbar**

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

### **business day**

A *day* other than a Saturday, Sunday or a *day* which is lawfully observed as a national public holiday on the same *day* in each of the *participating jurisdictions*.

### **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 NEMMCO 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*.

### **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.

### **central dispatch**

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

### **change**

Includes amendment, alteration, addition or deletion.

### **check meter**

A *meter*, other than a *revenue meter*, used as a source of *metering data* for Type 1 and Type 2 *metering installations* as specified in schedule 7.2.

### **check metering data**

The *metering data* obtained from a *check metering installation*.

### **check metering installation**

A *metering installation* used as the source of *metering data* for validation in the *settlements* process.

### **clause 4.8.9 instruction**

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

### **COAG**

Council of Australian Governments.

### **commitment**

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

### **common service**

A service that ensures the integrity of a *transmission or distribution system* and benefits all *Transmission Customers* or *Distribution Customers* (as the case may be) and cannot reasonably be allocated on a locational basis.

### **common service charge**

The amount per *billing period* determined by a *Transmission Network Service Provider* under clause 6.5.6 for a *connection point* with a *Transmission Customer* connected to the *Transmission Network Service Provider's transmission network* and payable by the *Transmission Customer* to recover *common service costs*.

### **common service price**

Either the price per unit of *metered energy* offtake or the price per unit of contracted capacity determined under clause 6.5.6 for application to *connection points* with *Transmission Customers* connected to a *transmission network* in the *region* or *regions* over which the cost allocation under clause 6.4 is being made, which is used to determine *common service charges*.

### **communication link**

All communications equipment, processes and arrangements that lie between the *meter* and the *data logger*, where the *data logger* is external to the device that contains the *measurement elements*, and/or the *data logger* and the telecommunications network.

### **compensation recovery amount**

Has the meaning given in clause 3.15.8(a).

### **complainant**

The party which refers a dispute to the *Adviser* in accordance with clause 8.2.5(a).

### **confidential information**

In relation to a *Registered Participant* or *NEMMCO*, information which is or has been provided to that *Registered Participant* or *NEMMCO* under or in connection with the *Rules* and which is stated under the *Rules*, or by *NEMMCO*, 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.

### **connect, connected, connection**

To form a physical link to or through a *transmission network* or *distribution network*.

## **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 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.

## **connection assets**

Those components of a *transmission* or *distribution system* which are used to provide *connection services*.

## **connection point**

The agreed point of *supply* established between *Network Service Provider(s)* and another *Registered Participant*, *Non-Registered Customer* or *franchise customer*.

## **connection service**

An *entry service* (being a service provided to serve a *Generator* or group of *Generators* at a single *connection point*) or an *exit service* (being a service provided to serve a *Transmission* or *Distribution Customer* or group of *Transmission* or *Distribution Customers* at a single *connection point*).

## **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 NEMMCO 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*, the output of that *generating unit* is limited above the level to which it would otherwise have been *dispatched* by NEMMCO 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*.

### **contestable**

Other than in clauses 6.2.4(f) and 9.8.4C(a1), in relation to *transmission services* or *distribution services*, a service which is permitted by the laws of the relevant *participating jurisdiction* to be provided by more than one *Network Service Provider* as a contestable service or on a competitive basis.

### **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 and reliability standards* to be used by NEMMCO to determine the levels of *contingency capacity reserves* necessary for *power system security*.

### **contingency event**

An event described in clause 4.2.3(a).

### **control centre**

The *facilities* used by NEMMCO 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*.

### **Convener**

The *representative* appointed by NEMMCO in accordance with clause 5.6.3 to convene the *Inter-regional Planning Committee*.

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

A *Network Service Provider* appointed by multiple *Transmission Network Service Providers* to represent them in the determination of price in accordance with clause 6.3.2.

### **cost pool**

A pool used to collect the costs associated with the use of asset categories by a group of *Distribution Network Users* with like *load*, *metering* and *voltage* characteristics for the purpose of preparing *distribution service* prices.

### **cost reflective network pricing**

A cost allocation method which reflects the value of assets used to provide *transmission* or *distribution services* to *Network Users*.

### **credible contingency event**

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

### **credit period**

The typical period of days over which *maximum credit limit* is calculated in accordance with schedule 3.3.

### **credit support**

An obligation owed to NEMMCO by a third party supporting the obligations of a *Market Participant* and having the characteristics required by clause 3.3.2.

### **credit support provider**

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

### **critical single credible contingency event**

An event described in clause 4.2.3(d).

### **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 NEMMCO as a *Customer* under Chapter 2.

### **Customer TUOS general charge**

The charge per *billing period* determined by a *Transmission Network Service Provider* under clause 6.5.4A for a *connection point* with a *Transmission Customer* connected to the *Transmission Network Service Provider's transmission network* and payable by the

*Transmission Customer* to recover the balance of the *aggregate annual revenue requirement* referred to in clause 6.4.3C.

### **Customer TUOS general price**

Either the price per unit of *metered energy* offtake or the price per unit of contracted capacity determined under clause 6.5.4A for application to *connection points* with *Transmission Customers* connected to a *transmission network* in the *region* or *regions* over which the cost allocation under clause 6.4 is being made, which is used to determine the *Customer TUOS general charge* for each *connection point* with a *Transmission Customer* connected to a *transmission network* in the *region* or *regions*.

### **Customer TUOS usage charge**

The charge per *billing period* determined by a *Transmission Network Service Provider* under clause 6.5.4 for a *connection point* with a *Transmission Customer* connected to the *Transmission Network Service Provider's transmission network* and payable by that *Transmission Customer*.

### **Customer TUOS usage price**

The pricing structure determined by a *Transmission Network Service Provider* under clause 6.5.4 for a *connection point* with a *Transmission Customer* connected to its *transmission network* used to determine the *Customer TUOS usage charge* for that *Transmission Customer*.

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

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

### **data collection system**

All equipment and arrangements that lie between the *metering database* and the point where the *metering data* enters the *telecommunications network*.

### **data logger**

A *metering installation* database or a device that collects electronic signals from a *measurement element* and packages it into 30 minute intervals (or sub-multiples). This device may contain data storage capability, be a separate item of equipment, and/or be combined with the *energy* measuring components within one physical device.

### **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.



### **decommission, decommit**

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

### **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 *NEMMCO* pursuant to clause 3.15.21(b)(1).

### **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 *NEMMCO* 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 *NEMMCO* 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 and reliability standards*.

### **demand based price**

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

### **deprival value**

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

### **derogation**

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

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

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

### **Directed Participant**

A *Scheduled Generator*, *Market Generator*, *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* or *NEMMCO*, a person to whom that *Registered Participant* or *NEMMCO* (as the case may be) discloses *confidential information*.

### **disconnection, disconnect**

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

### **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*, a *scheduled load*, a *scheduled network service*, an *ancillary service generating unit* or an *ancillary service load* in accordance with clause 3.8, or a *direction* or operation of capacity the subject of a *reserve contract* as appropriate.

### **dispatch algorithm**

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

### **dispatch bid**

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

### **dispatch inflexibility profile**

Data which may be provided to *NEMMCO* 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 or 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 offer**

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

### **dispatch offer price**

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

### **dispatch optimisation software**

The computer program used by *NEMMCO* for computing the *dispatch algorithm*.

### **dispatch price**

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

### **dispatched generating unit**

A *generating unit* which has received instructions from *NEMMCO* 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 *NEMMCO*.

### **dispatched load**

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

### **dispute management system (or “DMS”)**

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

### **dispute resolution panel (or “DRP”)**

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 Customer**

A *Customer, Distribution Network Service Provider, Non-Registered Customer* or *franchise 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 *Member* appointed to the *Information Exchange Committee* in that membership category as set out in the *Information Exchange Committee Election Procedures*.

### **Distribution Network User**

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

### **Distribution Ring-Fencing Guidelines**

Has the meaning given in clause 6.20.2(b).

## **distribution service**

The services provided by a *distribution system* which are associated with the conveyance of electricity through the *distribution system*. *Distribution services* include *entry services*, *distribution use of system services* and *exit services* which are provided by part of a *distribution system*.

## **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 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 NEMMCO 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 NEMMCO 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).

## **dollar reallocation transaction**

A *reallocation transaction* under which the *Market Participants* have requested NEMMCO to debit one of them with a dollar amount and credit the other with a similar dollar amount.

## **DRP**

A *dispute resolution panel*.

## **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.

### **electrical energy loss**

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

### **electronic communication system**

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

### **electronic data transfer**

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

### **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.*

### **enabled**

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

### **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 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 data**

*Interval energy data, accumulated energy data, or estimated data.*

### **energy packets**

The value of *energy data* which is accumulated for a period of 30 minutes and stored as a separate data record.

### **entry charge**

The charge payable by a *Generator* to a *Network Service Provider* for *entry service* at a *connection point*.

### **entry cost**

For each *connection point*, the amount of the *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 group of *Generators* at a single *connection point*.

### **estimated energy data**

The data that results from an estimation of the flow of electricity in a power conductor where the data applies to a *trading interval* or a period in excess of a *trading interval*. The estimation is made in relation to a *market load* and would not apply to a *metering point* where *accumulated energy data* or *interval energy data* is not available, or a *non-metered connection point*.

### **excess generation**

Aggregate *self dispatch level* of *self-committed generation* which is in excess of the quantity needed to meet the expected *power system demand* and *reserve* requirements.

### **excess generation period**

A period made up of one or more *dispatch intervals* where the sum of the aggregate of *generating unit self dispatch levels* and the required *regulating capability* (which forms part of the *contingency capacity reserves standard*) exceeds the forecast *load* or actual *load* during those *dispatch intervals*.

### **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).

### **excluded distribution services**

*Distribution services* which are subject to a more "light-handed" regulatory approach than that described in clause 6.10.5 with the result that the costs of and revenue for such services are excluded from the *revenue cap* or *price cap* which applies to *prescribed distribution services*.

### **excluded transmission services**

*Transmission services* the costs of and revenue for which are excluded from the *revenue cap* which applies to *prescribed transmission services*.

### **exit charge**

The charge payable by a *Transmission Customer* or *Distribution Customer* to a *Transmission Network Service Provider* or a *Distribution Network Service Provider* respectively for *exit service* at a *connection point*.

### **exit cost**

For each *connection point* the amount of the *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* or *Distribution Customer* or group of *Transmission* or *Distribution Customers* at a single *connection point*.

### **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*.

### **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 and reliability standards*.



## **facility**

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

- (a) a *power station* or *generating unit*, including *black start-up facilities*;
- (b) a *substation* or *power station switchyard*;
- (c) a control centre (*control centre*, *NEMMCO* or *distribution* or *transmission* control centre);
- (d) facilities providing an *exit service*.

## **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 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 *NEMMCO* 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.

## **franchise customer**

A person who does not meet its local jurisdiction requirements to make it eligible to be registered by NEMMCO 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 standards**

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

## **funded augmentation**

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

### **general purpose**

The term applied by the National Standards Commission to refer to the classification of a meter.

### **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 system comprising one or more *generating units*.

### **generating unit**

The actual generator of electricity and all the related equipment essential to its functioning as a single entity.

### **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* to NEMMCO relating to the *dispatch* of a *scheduled generating unit* in accordance with clause 3.8.6.

### **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 NEMMCO as a *Generator* under Chapter 2.

### **generator access**

The *power transfer capability* of the *transmission network* and/or *distribution network* in respect of the *Generator's generating units* or group of *generating units* at a *connection point* which has been negotiated between the *Generator* and the relevant *Network Service Provider* in accordance with clause 5.5.

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

A service provided to a *Generator* for:

- (a) use of the *transmission network* which has been negotiated in accordance with clause 5.5(f)(2); or
- (b) use of a *new transmission network investment* asset 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*.

## **governor system**

The automatic *control system* which regulates the speed of the power turbine of a *generating unit* through the control of the rate of entry into the *generating unit* of the primary *energy* input (for example, steam, gas or water).

## **hedge contract**

A contract between two or more parties affording one or each of them protection against certain financial risks.

## **high voltage (HV)**

A *voltage* greater than 1 kV.

## **Independent Member**

A *Member* appointed to the *Information Exchange Committee* in that membership category as set out in the *Information Exchange Committee Election Procedures*.

## **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 *NEMMCO*;
- (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*.

### **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 7.2A.2(a).

### **Information Exchange Committee Annual Report**

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

### **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 recommendation made by the *Information Exchange Committee* to NEMMCO to make *B2B Procedures* or to *change* the *B2B Procedures*.

### **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*.

## instrument transformer

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

## 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 *NEMMCO* 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

1. In Chapter 5, a person including an end user or its *representative* who, in *NEMMCO's* opinion, has or identifies itself to *NEMMCO* as having an interest in relation to the *network* planning and development activities covered under clause 5.6 or in the determination of *plant standards* covered under clause 5.3.3(b2).
2. In Chapter 6, a person, not being a *Registered Participant* or *NEMMCO*, who:
  - (a) in relation to the *Transmission Ring-Fencing Guidelines*, in the *AER's* opinion has, or who identifies itself to the *AER* as having, an interest in those Guidelines; or
  - (b) in relation to the *Distribution Ring-Fencing Guidelines*, in the relevant *Jurisdictional Regulator's* opinion has, or who identifies itself to the relevant *Jurisdictional Regulator* as having, an interest in those Guidelines.
3. In Chapter 7, a person that a *Metrology Coordinator* considers to be an interested party.
4. In Chapter 2, a person including an end user or its *representative* who, in *NEMMCO's* opinion, has or identifies itself to *NEMMCO* as having an interest in relation to the structure of *Participant Fees*.

### **interim statement**

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

### **intermediary**

A person who is registered by NEMMCO 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).

### **inter-regional network constraint**

A *constraint* on the *transmission* and/or *distribution networks* between *regions* as specified in clause 3.6.4(a).

### **Inter-regional Planning Committee**

The committee established in accordance with clause 5.6.3.

### **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 NEMMCO 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 by a *data logger* into intervals which correspond to a *trading interval* or are sub-multiples of a *trading interval*.

### **intervention price dispatch interval**

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

### **intervention price trading interval**

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

### **intervention settlement timetable**

Has the meaning given in clause 3.12.10(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).

### **intra-regional network constraint**

A *constraint* on part of the *transmission* and *distribution networks* within a *region* as specified in clause 3.6.4(b).

### **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.

### **involuntary load shedding**

*Load shedding* where the load shed is not an *interruptible load* or a *scheduled load*.

### **isolation**

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



## **Jurisdictional System Security Coordinator**

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

## **jurisdictional derogation**

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

## **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 NEMMCO.

## **Jurisdictional Regulator**

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

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

Any of the conditions described in clause 4.8.4(b), (c) or (d).

## **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 class**

A grouping of customers with like *load* characteristics.

## **load shedding**

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

### **load shedding procedures**

The procedures developed by *NEMMCO* for each *participating jurisdiction* in accordance with clause 4.3.2(h) 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 a *Jurisdictional Regulator*.

### **local black system procedures**

The procedures, described in clause 4.8.12, applicable to a *local area* as approved by *NEMMCO* 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 *Jurisdictional Regulator*.

### **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 *NEMMCO* may determine.

### **Local Retailer/Market Customer Member**

A *Member* appointed to the *Information Exchange Committee* in that membership category as set out in the *Information Exchange Committee Election Procedures*.

### **local spot price**

A price determined according to clause 3.9.1(c).

### **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).

### **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.

### **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 *NEMMCO*.

### **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 *NEMMCO* in respect of a *market ancillary service* in accordance with clause 3.8.7A.

### **market ancillary service specification**

Has the meaning given in clause 3.11.2(b).

### **market ancillary services commencement date**

29 September 2001.

### **market auditor**

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

### **market commencement**

The date declared as such by *NEMMCO*, 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 *NEMMCO* as a *Market Customer* under Chapter 2.

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

Has the meaning given in clause 3.12.11(c1)(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 *NEMMCO* 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 *NEMMCO* 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* the electricity relating to which is purchased other than from the *Local Retailer* and which is 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**

NEMMCO'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* and *Metering Providers* in connecting to and making use of the *market management systems* from time to time published by NEMMCO under clause 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 NEMMCO as a *Market Network Service Provider* under Chapter 2.

## **market network service provider access**

The *power transfer capability* of the *transmission network* and/or *distribution network* in respect of the *Market Network Service Provider's* *market network services* at a *connection point* which has been negotiated between the *Market Network Service Provider* and the relevant *Network Service Provider* in accordance with clause 5.5A.

## **market objective**

The national electricity market objective set out in section 7 of the *National Electricity Law*.

## **Market Participant**

A person who is registered by NEMMCO as a *Market Generator*, *Market Customer* 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 Settlement and Transfer Solution Procedures**

The procedures from time to time *published* by NEMMCO under clause 7.2.8 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 suspension**

Suspension of the *market* by NEMMCO 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*.

### **maximum allowed revenue**

A revenue amount determined in accordance with clause 6.2.4.

### **maximum credit limit**

In relation to a *Market Participant* a credit limit determined by NEMMCO for that *Market Participant* in accordance with clause 3.3.8.

### **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 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 capacity reserve**

At any time, the amount of surplus generating capacity indicated by the relevant *Generators* as being available for a particular period, being more than 7 *days* in the future but not more than 12 weeks, and which is assessed as being in excess of the capacity requirement to meet the forecast *load* demand, taking into account the known or historical levels of demand management.

### **medium term capacity reserve standard**

The level of *medium term capacity reserves* required for a particular period as set out in the *power system security and reliability standards*.

### **medium-term PASA**

The PASA in respect of the period from the 8<sup>th</sup> *day* after the current *trading day* to 24 months after the current *trading day* in accordance with clause 3.7.2.

### **Member**

A person appointed to the *Information Exchange Committee* pursuant to the *Information Exchange Committee Election Procedures*, 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*.

### **metering**

Recording the production or consumption of electrical *energy*.

### **metering data**

The data obtained from a *metering installation*, the processed data or substituted data.

### **metering database**

A database of *metering data* and *settlements ready data* maintained and administered by NEMMCO in accordance with clause 7.9.

### **metering installation**

The assembly of components and/or processes that are controlled for the purpose of metrology and which lie between the *metering point(s)* or *non-metered connection point* and the point of connection to the *telecommunications network*, as shown in schedule 7.1. The assembly of components may include the combination of several *metering points* to derive the *metering data* for a *connection point*. The *metering installation* must be classified as a *revenue metering installation* and/or a *check metering installation*.

## **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 7.4 and has been accredited by and registered by *NEMMCO* as a Metering Provider.

## **metering register**

A register of information associated with a *metering installation* as required by schedule 7.5.

## **metering system**

The collection of all components and arrangements installed or existing between each *metering point* and the *metering database*, as shown in schedule 7.1 .

## **Metrology Coordinator**

In relation to a *participating jurisdiction*, the *Jurisdictional Regulator* for that *participating jurisdiction*.

## **metrology procedure**

A document that contains information on the devices and processes that are to be used to measure, or determine by means other than a device, the flow of electricity in a power conductor, to convey the measured or determined data to other devices using *communication link(s)*, to prepare the data using devices or algorithms to form *metering data* and to provide access to the *metering data* from a *telecommunication network*. In relation to type 5 and 6 *metering installations*, the document may also contain requirements for the engagement and payment of *Metering Providers* and, where applicable, must contain requirements for the provision of relevant details of the *metering installation* to the responsible person. The document can specify, in relation to *metering installations* types 5, 6 and 7 (as specified in schedule 7.2), in what circumstances *energy data* held in *metering installations* within the relevant *participating jurisdiction*, can be used by *Distribution Network Service Providers* to calculate charges for *distribution service* for the purposes of clause 6.16.1(e).

## **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 technical ancillary service standards**

The minimum technical service standards prepared by *NEMMCO* in accordance with clause 3.11.4.



## **Minister**

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

## **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.

## **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 grid**

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

## **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*.

## **negotiable service**

1. In relation to *transmission services* means:
  - (a) an *excluded transmission service*;
  - (b) that part of a *prescribed transmission service* which is to be provided to a standard which is higher or lower than any standard:
    - (1) described in schedule 5.1;
    - (2) outlined in the standards published in accordance with clause 6.5.7(b);  
or
    - (3) required by any regulatory regime administered by the AER;

- (c) *connection services, use of system services and generator access* provided to a *Generator*, for which charges are negotiated under clause 5.5;
- (d) *connection services, use of system services and market network service provider access* provided to a *Market Network Service Provider*, for which charges are negotiated under clause 5.5A; or
- (e) that part of a *prescribed transmission service* which is to be provided at reduced *Customer TUOS general charges* or reduced *common service charges* (the “*agreed reduced charges*”) under clause 6.5.8,

and does not include a *contestable* service.

2. In relation to *distribution services* means:

- (a) an *excluded distribution service*;
- (b) that part of a *prescribed distribution service* which is to be provided to a standard which is higher or lower than any standard:
  - (1) described in schedule 5.1;
  - (2) outlined in the standards published in accordance with 6.14.5(a)(3); or
  - (3) required by any regulatory regime administered by the *AER* or a *Jurisdictional Regulator* (as appropriate);
- (c) *connection services, use of system services and generator access* provided to a *Generator*, for which charges are negotiated under clause 5.5; or
- (d) *connection services, use of system services and market network service provider access* provided to a *Market Network Service Provider*, for which charges are negotiated under clause 5.5A,

and does not include a *contestable* service.

### **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 use of system service**

The *use of system services* for which:

- (a) a *Generator* may negotiate with a *Network Service Provider* to pay; and
- (b) a *Market Network Service Provider* must negotiate with a *Network Service Provider* to pay or receive,

in accordance with clauses 5.5(f)(2) or 5.5A(g)(2), respectively.

### **negotiated use of system charges**

The charges described in clause 5.5(f)(2) or 5.5A(g)(2) (as the case may be).

## **NEMMCO**

National Electricity Market Management Company Limited A.C.N. 072 010 327.

## **NEMMCO co-ordinating centre**

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

## **NEMMCO power system security responsibilities**

The responsibilities described in clause 4.3.1.

## **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 capability**

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

## **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 constraint**

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

## **network control ancillary service or NCAS**

A service which provides *NEMMCO* with a capability to control the real or *reactive power* flow into or out of a *transmission network* in order to:

- (a) maintain the *transmission network* within its current, *voltage* or stability limits following a *credible contingency event*; or
- (b) enhance the value of *spot market* trading in conjunction with the *central dispatch* process.

## **network coupling point**

The point at which *connection assets* join a *distribution network*, used to identify the *distribution service* price payable by a *Customer*, more fully described in schedule 6.6.

## **network dispatch offer**

An notice submitted by a *Scheduled Network Service Provider* to *NEMMCO* 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, *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 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 NEMMCO as a *Network Service Provider* under Chapter 2.

### **Network User**

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

### **new distribution network investment**

Investment in a *new large distribution network asset* or a *new small distribution network asset*.

### **new large distribution network asset**

An asset of a *Distribution Network Service Provider* which is an *augmentation* and in relation to which the *Distribution Network Service Provider* has estimated it will be required to invest a total capitalised expenditure in excess of \$10 million, unless the *Jurisdictional Regulator* for the *participating jurisdiction* in which the relevant *distribution network* is located publishes a requirement that a *new large distribution network asset* is to be distinguished from a *new small distribution network asset* if it involves investment of a total capitalised expenditure in excess of another amount, or satisfaction of another criterion. Where such a specification has been made, an asset must require total capitalised expenditure in excess of that amount or satisfaction of those other criteria to be a *new large distribution network asset*.

### **new large network asset**

A *new large distribution network asset* or a *new large transmission network asset*.

### **new large transmission network asset**

An asset of a *Transmission Network Service Provider* which is an *augmentation* and in relation to which the *Transmission Network Service Provider* has estimated it will be required to invest a total capitalised expenditure in excess of \$10 million, unless the *AER* publishes a requirement that a *new large transmission network asset* is to be distinguished from a *new small network asset* if it involves investment of a total capitalised expenditure in excess of another amount, or satisfaction of another criterion. Where such a specification has been made, an asset must require total capitalised expenditure in excess of that amount or satisfaction of those other criteria to be a *new large transmission network asset*.

### **new network investment**

*New distribution network investment* or *new transmission network investment*.

### **new small distribution network asset**

An asset of a *Distribution Network Service Provider* which is an *augmentation* and:

- (a) in relation to which the *Distribution Network Service Provider* has estimated it will be required to invest a total capitalised expenditure in excess of \$1 million, unless the *Jurisdictional Regulator* for the *participating jurisdiction* in which the relevant *distribution network* is located publishes a requirement that an asset will be a *new small distribution network asset* if it involves investment of a total capitalised expenditure in excess of another amount, or satisfaction of another criterion. Where such specification has been made, an asset must require total capitalised expenditure in excess of that amount or satisfaction of those other criteria to be a *new small distribution network asset*; and
- (b) is not a *new large distribution network asset*.

### **new small network asset**

*A new small distribution network asset or a new small transmission network asset.*

### **new small transmission network asset**

An asset of a *Transmission Network Service Provider* which is an *augmentation* and:

- (a) in relation to which the *Transmission Network Service Provider* has estimated it will be required to invest a total capitalised expenditure in excess of \$1 million, unless the *AER* publishes a requirement that an asset will be a *new small transmission network asset* if it involves investment of a total capitalised expenditure in excess of another amount, or satisfaction of another criterion. Where such a specification has been made, an asset must require total capitalised expenditure in excess of that amount or satisfaction of those other criteria to be a *new small transmission network asset*; and
- (b) is not a *new large transmission network asset*.

### **new transmission network investment**

Investment in a *new large transmission network asset* or a *new small transmission network asset*.

### **NMI**

A National Metering Identifier as described in clause 7.3.1(d).

### **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*;
- (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*;
- (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 *NEMMCO* 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.

### **non-credible contingency event**

An event described in clause 4.2.3(e).

### **non-market ancillary service**

A service identified in clause 3.11.4(a).

### **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-metered connection point**

A *connection point* at which it is determined that a *meter* is not necessary in accordance with schedule 7.2.

### **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 *NEMMCO* 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-scheduled generating unit**

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

### **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*.

### **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 and reliability 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 and reliability standards*.

### **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.

### **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.

### **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 and reliability standards*.

### **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.

### **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* of a *scheduled generating unit*, *scheduled load* or *scheduled network service*, including any capability that can be made available within 24 hours.

### **payment date**

The 20<sup>th</sup> *business day* after the end of a *billing period*.

### **payment period**

The typical period between trading and payment defined in schedule 3.3.

### **peak load**

Maximum *load*.

### **performance standard**

A standard of performance established as a result of it being:

- (1) accepted by *NEMMCO* in accordance with clause 4.14(d)(1);
- (2) taken to be an applicable performance standard in accordance with clause 5.3.4A(g);
- (3) deemed to apply in accordance with clause 4.14(h); or
- (4) determined pursuant to clause 4.14(m).

### **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.

### **plant**

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

In relation to *dispatch bids and offers*, controllable generating equipment and controllable *loads*.

In relation to the *statement of opportunities* prepared by *NEMMCO*, individually controllable generating facilities registered or capable of being registered with *NEMMCO*.

### **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*.

### **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*.

### **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 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 *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 and reliability standards**

The standards governing *power system security* and *reliability* of the *power system* which are approved by the *Reliability Panel* on the advice of *NEMMCO*. They may include but are not limited to standards for the *frequency* of the *power system* in operation, *contingency capacity reserves* (including guidelines for assessing requirements and utilisation), *short term capacity reserves*, *medium term capacity reserves* and *system restart*.

## **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-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)(4).

## **preliminary statement**

Has the meaning given in clause 3.15.14(a).

## **prescribed distribution services**

*Distribution services* provided by *distribution network* assets or associated *connection assets* which are determined by the *Jurisdictional Regulator* under clause 6.10.4(a) as those which should be subject to economic regulation in accordance with the principles set out in clause 6.10.5.

## **prescribed transmission services**

*Transmission services* provided by *transmission network* assets or associated *connection assets* to which a *revenue cap* applies.

## **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.

### **price cap**

In Parts D and E of Chapter 6, the maximum price determined by the *Jurisdictional Regulator* which a *Distribution Network Service Provider* is entitled to charge for certain *distribution services* in any year.

### **pricing zone**

A geographic area within which *Network Users* are charged a specific set of *distribution service* prices.

### **profile**

*Energy 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 NEMMCO.

### **Proponent**

In respect of clause 5.7.7 has the meaning given in clause 5.7.7(a).

### **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 factor**

A factor to be determined and used by NEMMCO in accordance with clause 3.3.10 for the purpose of determining a *Market Participant's trading limit*.

### **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**

Make available to *Registered Participants* electronically.

### **quantity reallocation transaction**

A *reallocation transaction* under which the *Market Participants* have requested NEMMCO to debit one of them with a *trading amount* (being a quantity multiplied by the *spot price* for a *region*) and credit the other with a similar *trading amount*.

### **ramp rate**

The rate of change of *active power* supplied from a *generating unit*, supplied to a *load* or transferred by a *scheduled network service*.

### **reaction period**

The estimated period of time taken to remove defaulting *Market Participants* from the *market* as defined in schedule 3.3.

### **reactive energy**

A measure, in varhours (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.

### **reallocated dollar amount**

In relation to a *dollar reallocation transaction*, the amount specified as such in the applicable *reallocation request*.

### **reallocated quantity**

In relation to a *quantity reallocation transaction*, the amount specified as such in the applicable *reallocation request*.

### **reallocation**

A process under which two *Market Participants* request *NEMMCO* to make matching debits and credits to the position of those *Market Participants* with *NEMMCO*.

### **reallocation request**

A request to *NEMMCO* for a *reallocation*, pursuant to clause 3.15.11(d).

### **reallocation termination request**

A request to *NEMMCO* for early termination of a *reallocation*, pursuant to clause 3.15.11(d1).

### **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*.

### **rebid**

A variation to a bid or offer made in accordance with clause 3.8.22.

### **reduced payment period request**

A written request to *NEMMCO* for the purpose of schedule 3.3, paragraph VI(C).

### **Referred Affected Participant**

An *Affected Participant* who has a claim referred to an independent expert pursuant to clauses 3.12.11(f) or 3.12.11(g).

### **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 3.12.11(f) or 3.12.11(g).

## **region, regional**

An area recommended by *NEMMCO* and approved by the AEMC in accordance with clause 3.5, 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 *NEMMCO* in accordance with clause 3.5.1.

## **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).

## **registered bid and offer data**

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

## **registered network pricing software**

The *transmission service* pricing software specified in clause 6.8.

## **Registered Participant**

A person who is registered by *NEMMCO* in any one or more of the categories listed in clauses 2.2 to 2.7 (in the case of a person who is registered by *NEMMCO* as a *Trader*, such a person is only a *Registered Participant* for the purposes referred to in clause 2.5A). However, as set out in clause 8.2.1(a1), for the purposes of some provisions of clause 8.2 only, *NEMMCO* and *Connection Applicants* who are not otherwise *Registered Participants* are also deemed to be *Registered Participants*.

## **Registered Participant Agent**

An agent of a *Registered Participant* appointed under clause 4.11.5.

## **regulated interconnector**

An *interconnector* which is deemed to be a *regulated interconnector* under clause 6.19 and is subject to the *transmission service* regulation and pricing arrangements in Parts B and C of Chapter 6.



### **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 NEMMCO 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 NEMMCO in order to raise the *frequency* of the *power system*.

### **regulation services**

The *regulating raise service* and *regulating lower service*.

### **regulatory cap**

In Parts D and E of Chapter 6, means a *price cap*, a *revenue cap* or a combination of them.

### **regulatory control period**

In Chapter 5 and in Parts B and C of Chapter 6, means a period in which a *revenue cap* is imposed on a *Transmission Network Service Provider* by the *AER*, and in Parts D and E of Chapter 6, means a period in which a *price cap* and/or a *revenue cap* is imposed on a *Distribution Network Service Provider* by the relevant *Jurisdictional Regulator*.

### **regulatory test**

The test promulgated by the *AER* in accordance with clause 5.6.5A.

### **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).

## **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 augmentation**

A *transmission network augmentation* that is necessitated solely 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*.

## **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 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.

## **reserve**

*Short term capacity reserve* and *medium term capacity reserve* as contracted by *NEMMCO* under clause 3.12.

### **reserve contract**

A contract between a *Registered Participant* and NEMMCO to provide any *reserve* and includes a contract between a *Market Network Service Provider* and NEMMCO to facilitate *reserves* in one *region* being made available in another *region*.

### **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**

The person who has responsibility for the provision of a *metering installation* for a particular *connection point*, being either the *Local Network Service Provider* or the *Market Participant* as described in Chapter 7.

### **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 NEMMCO for all or part of a *mandatory restriction period* made in accordance with the *restriction offer procedures*.

### **restriction offer procedures**

The procedures developed by NEMMCO in accordance with clause 3.12A.1.

### **restriction shortfall amount**

The amount determined in accordance with clause 3.12A.7(b).

### **retailer of last resort**

In relation to a jurisdiction, means a person or persons required under the retailer of last resort arrangements of that jurisdiction to assume the obligations under the *Rules* (including the obligation to pay *trading amounts* and other amounts due under the *Rules*) of a *Market Customer* that has defaulted in the performance of its obligations under the *Rules*.

### **revenue cap**

In Parts B and C of Chapter 6, the *maximum allowed revenue* for a year determined by the *AER* for *prescribed transmission services* applicable to a *Transmission Network Service Provider*;

In Parts D and E of Chapter 6, the *aggregate annual revenue requirement* for a year determined by the *Jurisdictional Regulator* applicable to a *Distribution Network Service Provider*.

### **revenue meter**

The *meter* that is used for obtaining the primary source of *metering data*.

### **revenue metering data**

The *metering data* obtained from a *revenue metering installation*.

### **revenue metering installation**

A *metering installation* used as the primary source of *metering data* for the *settlements* process.

### **revenue metering point**

The *metering point* at which the *revenue metering installation* is connected.

### **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 *NEMMCO* under clause 3.15.19 following the resolution of a dispute regarding a *final statement*.

### **RMS phase voltage**

The *voltage of supply* measured as the average of the root mean square of the *voltages* between each pair of phases.

### **routine revised statement**

A *settlement statement* issued by NEMMCO 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 NEMMCO, the AER, the AEMC, the ACCC or *Jurisdictional Regulators*, 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 *generating unit* so classified in accordance with Chapter 2.

### **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 NEMMCO pursuant to clause 3.3.17.

### **scheduled load**

A *market load* which has been classified by NEMMCO 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*.

### **scheduled low price**

The dollar amount per MWh or MW, as the case may be, determined as such by NEMMCO pursuant to clause 3.3.17.

### **scheduled network service**

A *network service* which is classified as a *scheduled network service* in accordance with Chapter 2.

### **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 *scheduled network service* or a *scheduled load* classified by or in respect to that *Registered Participant* in accordance with Chapter 2.

### **scheduling error**

A failure by *NEMMCO* to follow the *central dispatch* process in accordance with Chapter 3.

### **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 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 *NEMMCO*.

### **self-decommitment**

*Decommitment*, where the decision to *decommit* a *generating unit* was made by the relevant *Generator* without instruction or direction from *NEMMCO*.

### **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 NEMMCO in that *trading interval* unless otherwise *dispatched* in accordance with clause 3.8 or unless required to operate under a *direction* issued by NEMMCO in accordance with clause 4.8.9.

### **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*.

### **settlement amount**

The amount calculated by NEMMCO 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 NEMMCO for the purpose of *settlements* and is delivered to the *metering database*.

### **settlements residue**

Any surplus or deficit of funds retained by NEMMCO upon completion of *settlements* to all *Market Participants* in respect of a *trading interval*.

### **settlement residue committee**

The committee established by NEMMCO in accordance with clause 3.18.5.

### **settlement residue distribution agreement or SRD agreement**

Has the meaning given in clause 3.18.1(b).

### **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 capacity reserve**

At any time, the amount of surplus or unused generating capacity indicated by the relevant *Generators* as being available for any half hour period during the next 7 *days* and which is assessed as being in excess of the capacity requirement to meet the current forecast *load* demand, taking into account the known or historical levels of demand management.

### **short term capacity reserve standard**

The level of *short term capacity reserve* required for a particular period in accordance with the *power system security and reliability standards*.

### **short term PASA**

The *PASA* in respect of the period from 2 *days* after the current *trading day* to the end of the 7<sup>th</sup> day after the current *trading day* inclusive in respect of each *trading interval* in that period.

### **short term PASA inputs**

The inputs to be prepared by *NEMMCO* in accordance with clause 3.7.3(d).

### **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.

### **single credible contingency event**

An event described in clause 4.2.3(c).

### **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 *reserve*.

### **Special Participant**

A *System Operator* or a *Distribution System Operator*.

### **special revised statement**

A *settlement statement* issued by NEMMCO under clause 3.15.19(a)(3).

### **spot market**

The spot market established and operated by NEMMCO 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*.

### **Standards Australia**

The Standards Association of Australia and includes its heirs or successors in business.

### **statement of opportunities**

A statement prepared by NEMMCO to provide information to assist *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.

### **supply**

The delivery of electricity.

### **survey period**

An agreed sample period used to determine the allocation of costs and prices for use of *transmission network* or *distribution network* assets.

### **suspension notice**

A notice issued by NEMMCO to a *defaulting Market Participant* pursuant to clause 3.15.21(c).

### **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**

*Plant*, similar in construction to a *generating unit* of the *synchronous generator* category, which operates at the equivalent speed of the *frequency* of the *power system*, specifically provided to generate or absorb *reactive power* through the adjustment of rotor current.

## **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 NEMMCO has engaged as its agent, or appointed as its delegate, under clause 4.3.3 to carry out some or all of NEMMCO's rights, functions and obligations under Chapter 4 of the *Rules* and who is registered by NEMMCO as a *System Operator* under Chapter 2.

## **system restart**

In respect of a *generating unit*, means the service of generating in order to assist other *generating units* to start during a *black system* condition.

## **system standard**

A standard for the performance of the *power system* as set out in schedule 5.1a.

## **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*.

## **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 *NEMMCO* for the delivery of *metering data*.

### **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.

### **tie**

Identically priced *dispatch bids* or *dispatch offers*.

### **time**

Eastern Standard Time, being the time at the 150<sup>th</sup> meridian of longitude east of Greenwich in England, or Co-ordinated Universal Time, as required by the National Measurement Act, 1960 (Cth).

### **time stamp**

The means of identifying the *time* and date at which data is transmitted or received.

### **timetable**

The timetable published by *NEMMCO* under clause 3.4.3 for the operation of the *spot market* and the provision of *market* information.

### **Trader**

A person who is registered by *NEMMCO* 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 *NEMMCO* 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 Customer**

A *Customer*, *Non-Registered Customer* or *Distribution Network Service Provider* having a *connection point* with a *transmission network*.

### **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 line**

A power line that is part of a *transmission network*.

## **transmission network**

A *network* within any *participating jurisdiction* operating at nominal *voltages* of 220 kV 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 66 kV and 220 kV that is not referred to in paragraph (a) but is deemed by the *AER* to be part of the *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*, a *Generator* whose *generating unit* is directly connected to the *transmission network* or a *Network Service Provider* whose *network* 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**

Has the meaning given in clause 6.20.2(a).

## **transmission service**

The services provided by a *transmission system* which are associated with the conveyance of electricity through the *transmission system*. *Transmission services* include *entry services*, *transmission use of system services* and *exit services* which are provided by part of a *transmission system*.

### **transmission system**

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

### **transmission use of system, transmission use of system service**

A *Generator transmission use of system service* or a *Customer transmission use of system service*.

### **two-terminal link**

One or more *network elements* that together enable the transfer of *energy* between two, and only two, *connection points*.

### **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*.

### **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*.

### **value of lost load (VoLL)**

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

### **verifying authorities**

Authorities appointed by the National Standards Commission under the National Measurements Act 1960 (Cth).

### **violation**

In relation to *power system security*, a failure to meet the requirements of Chapter 4 or the *power system security and reliability 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.

**weighted average cost of capital**

An amount determined in a manner consistent with schedule 6.1.