

# Electricity Industry Participation Code 2010

## Part 1 Preliminary provisions

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#### Schedule 1.1

**Notice of assumption of rights and obligations under Parts 8, 13, 14, and 14A of the Electricity Industry Participation Code 2010**

#### Schedule 1.2

**Revocation of notice of assumption of rights and obligations under Parts 8, 13, 14, and 14A of the Electricity Industry Participation Code 2010**

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### 1.1 Interpretation

- (1) In this Code, unless the context otherwise requires,—

**Act** means the Electricity Industry Act 2010

**active energy** means the integration over time of the product of voltage, current and the cosine of the phase angle between them, and which is normally measured in kilowatt hours (kWh)

**active meter** means a **meter** used for the measurement of **active energy**

**active power** means the product of voltage, current and the cosine of the phase angle between them, and which is normally measured in kilowatts (kW)

**additional customer compensation scheme** means a scheme operated by a **retailer** under clause 9.26, in addition to the **retailer’s default customer compensation scheme**  
Clause 1.1(1) **additional customer compensation scheme**: inserted, on 1 April 2011, by clause 4(1) of the Electricity Industry Participation (Customer Compensation Schemes) Code Amendment 2011.

**adjustment** means, for the purposes of the definitions of **error compensation**, **loss compensation**, and Part 10, an operation or process intended to reduce the differences between the values indicated by an instrument and the values realised by a **reference standard** or **working standard** to within a predetermined tolerance, and **adjust** and **adjusted** have corresponding meanings

Clause 1.1(1) **adjustment**: amended, on 29 August 2013, by clause 4(1) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2013.

**adjustment clause** means a clause in a **contract for differences** or a **fixed-price physical supply contract** under which the price or prices of a specified volume of **electricity** may be adjusted, including an adjustment relating to the Consumer Price Index, the Producers Price Index or any other index

**administrative cost** means, in relation to an **ancillary service**, the significant costs that are incurred by the **system operator** in relation to the development of **ancillary service** provision, that are specifically attributable to an **ancillary service**, and that have been agreed to by the **Authority** and the **system operator**

**allocable cost** has the meaning set out in clauses 8.55 to 8.58

**alternative ancillary service arrangement** means an arrangement between a **participant** and another **participant** or other person, or an arrangement involving only a **participant**, which is authorised by the **system operator** in accordance with clause 8.48

**ancillary service** means **black start, over frequency reserve, frequency keeping, instantaneous reserve or voltage support**

**ancillary service agent** means a person who provides an **ancillary service**

**ancillary service arrangement** means a contract between the **system operator** and an **ancillary service agent** for the procurement of **ancillary services** in accordance with clause 8.45

**annual consumption list** means the list **published** by the **reconciliation manager** in accordance with clause 13.188

Clause 1.1(1) **annual consumption list**: amended, on 5 October 2017, by clause 4(2) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**applications layer** means a part of a **metering installation** used for a function that is not performed by the **metrology layer**

Clause 1.1(1) **applications layer**: inserted, on 29 August 2013, by clause 4(1) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**approved calibration laboratory** means the Measurement Standards Laboratory of New Zealand, or a calibration laboratory that has been accredited under the Testing Laboratory Registration Act 1972 to ISO 17025, or an international laboratory that has been recognised by the Chief Metrologist for the specific **calibration** required

**approved investment** means—

- (a) an investment approved by the Electricity Commission under section III of part F of the **rules** before this Code came into force; or
- (b) an investment approved by the Commerce Commission under section 54R of the Commerce Act 1986; or
- (c) an investment that is permitted under an input methodology determined by the Commerce Commission under section 54S of the Commerce Act 1986

**approved system** means the system or systems required to convey information between persons in accordance with this Code, as may be approved from time to time by the **Authority**

Clause 1.1(1) **approved system**: inserted, on 5 October 2017, by clause 4(61) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**approved test house** means a facility that has been approved by the **Authority** in accordance with Part 10 to do one or more of the following:

(a) **calibrate metering installations or metering components**

(b) **certify metering installations or metering components**

Clause 1.1(1) **approved test house**: amended, on 29 August 2013, by clause 4(2)(a) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

Clause 1.1(1) **approved test house**: amended, on 19 December 2014, by clause 4(1) of the Electricity Industry Participation Code Amendment (Minor Code Amendments) (No 3) 2014.

Clause 1.1(1) **approved test house**: substituted, on 1 February 2016, by clause 4(1)(a) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2015.

**approved test laboratory** means a test laboratory that has been accredited under the Standards and Accreditation Act 2015 to ISO 17025 for the specific test required

Clause 1.1(1) **approved test laboratory**: amended, on 5 October 2017, by clause 4(3) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**asset** means equipment or plant that is connected to or forms part of the **grid** and, in the case of Part 8, includes equipment or plant that is intended to become connected to the **grid** and equipment or plant of an **embedded generator**

Clause 1.1(1) **asset**: amended, on 23 February 2015, by clause 75 of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.

Clause 1.1(1) **asset**: amended, on 5 October 2017, by clause 4(4) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**asset capability statement** means a statement of capability and operational limitations that applies to specific **assets** during the normal and abnormal conditions that may arise on the **grid**, provided to the **system operator** in accordance with clause 2(5) of **Technical Code A** of Schedule 8.3

**asset owner** means a **participant** who owns an **asset** used for the generation or conveyance of **electricity** and a person who operates such **asset** and, in the case of Part 8, includes a **consumer** with a **point of connection** to the **grid**

**asset owner performance obligations** and **AOPO** means a performance obligation specified in subpart 2 of Part 8 that an **asset owner** must comply with so that the **system operator** can plan to comply and comply with its **principal performance obligations**

**associated equipment**, for the purposes of the definition of **distribution network** and Part 6, means any equipment that is used, or designed or intended for use, in relation to any works or **consumer installation**, if such use is for **construction**, maintenance, or safety purposes and not for purposes that relate directly to the generation, conversion, transformation, conveyance, or use of **electricity**

Clause 1.1(1) **associated equipment**: amended, on 23 February 2015, by clause 4(1) of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.

Clause 1.1(1) **associated equipment**: amended, on 5 October 2017, by clause 4(5) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**assumed co-efficient of variation** [*Revoked*]

Clause 1.1(1) **assumed co-efficient of variation**: revoked, on 5 October 2017, by clause 4(60) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**at risk HVDC transfer** means the quantity of MWh for each trading period calculated in accordance with Tables 1 and 2, where—

- $INJ_{HVDCCHAYt}$  is the **electricity** injected from the **HVDC link** into the North Island **grid assets** at the North Island **HVDC injection point** in **trading period t**; and
- $INJ_{HVDCBENt}$  is the **electricity** injected from the **HVDC link** into the South Island **grid assets** at the South Island **HVDC injection point** in **trading period t**; and
- $INJ_{Pole2HAYt}$  is the **electricity** injected from Pole 2 of the **HVDC link** into the North Island **grid assets** at the North Island **HVDC injection point** in **trading period t**

**Table 1:** HVDC northward transfer – if **electricity** is injected at the North Island **HVDC injection point** in the relevant **trading period**

<b>HVDC configuration at the beginning of trading period t</b>	<b>At risk HVDC transfer north in trading period t (expressed in MWh)</b>
Pole 1 one half pole only	$INJ_{HVDCCHAYt}$
Pole 2 only	$INJ_{HVDCCHAYt}$
Pole 3 only	$INJ_{HVDCCHAYt}$
Pole 2 and Pole 1 one half pole	$INJ_{Pole2HAYt}$
Pole 3 and Pole 2 bipole <b>round power</b>	$INJ_{HVDCCHAYt}$
Pole 3 and Pole 2 bipole not <b>round power</b>	$\max(0, INJ_{HVDCCHAYt} - 263)$

**Table 2:** HVDC southward transfer – if **electricity** is injected at the South Island **HVDC injection point** in the relevant **trading period**

<b>HVDC configuration at the beginning of trading period t</b>	<b>At risk HVDC transfer south in trading period t (expressed in MWh)</b>
Pole 2 only	$INJ_{HVDCBENt}$
Pole 3 only	$INJ_{HVDCBENt}$
Pole 3 and Pole 2 bipole <b>round power</b>	$INJ_{HVDCBENt}$
Pole 3 and Pole 2 bipole not <b>round power</b>	$\max(0, INJ_{HVDCBENt} - 263)$

Clause 1.1(1) **at risk HVDC transfer**: substituted, on 1 July 2012, by clause 4(1) of the Electricity Industry Participation (HVDC Pole 3 Minor Amendments) Code Amendment 2012.

**ATH** means a person who is approved under Schedule 10.3 to operate an **approved test house**

Clause 1.1(1) **ATH**: inserted, on 29 August 2013, by clause 4(1) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**auction** means a must-run dispatch auction conducted by the **clearing manager** under subpart 3 of Part 13

**auction bid** means a bid made for an **auction** under clauses 13.117 to 13.130

**auction revenue** means, for a **generator**, the amount owing by the **generator** in accordance with clause 13.112(2) and, for a **purchaser**, the amount owing to the **purchaser** in accordance with clause 13.111

Clause 1.1(1) **auction revenue**: amended, on 24 March 2015, by clause 4(1)(a) of the Electricity Industry Participation (Settlement and Prudential Security) Code Amendment 2013.

**auction right** means the right (but not the obligation) to offer for sale a specified quantity of **electricity** to the **clearing manager** at 0 price in accordance with clause 13.116(1)

**audit** means a process of inspection of the facilities, processes, procedures, and other relevant items, to confirm compliance with this Code, and **audited** has a corresponding meaning

**auditor** means,—

- (a) for the purposes of Parts 10, 11, 15 and 16A, a person—
  - (i) approved or appointed by the **Authority** to carry out an **audit**; or
  - (ii) the **Authority**, if the **Authority** carries out an **audit** itself; and
- (b) for all other Parts of this Code, a person carrying out an **audit**

Clause 1.1(1) **auditor**: replaced, on 1 June 2017, by clause 4(1) of the Electricity Industry Participation Code Amendment (Requirements and Processes for Audits) 2016.

**Authority** has the meaning given to it by section 5 of the **Act**

**automatic control plant** means any hydro **generating plant** that has a pre-programmed generation profile and an automatic override if uncontrollable water inflows change

**automatic under-frequency load shedding** means a form of **extended reserve** in which electrical load is automatically shed when frequency falls below a preset frequency, or falls at a rate, specified by the **system operator** in the relevant **extended reserve provider's statement of extended reserve obligations**

Clause 1.1(1) **automatic under-frequency load shedding**: amended, on 7 August 2014, by clause 4(1) of the Electricity Industry Participation Code Amendment (Extended Reserve) 2014.

**availability cost** means a cost (other than an **administrative cost**), incurred by the **system operator** in purchasing **instantaneous reserve** and providing that **instantaneous reserve** for a **trading period**, and includes—

- (a) payments made by the **system operator** for that **trading period** under contracts that secure the availability of **instantaneous reserves**; and
- (b) the annual and variable costs (including any constrained-on costs) incurred by the **system operator** under any other contracts allocated by the **system operator** to that **trading period**; less
- (c) the costs of **instantaneous reserves** procured as a direct result of a **generator** being granted a **dispensation** under clause 8.31(1); and
- (d) **instantaneous reserve constrained on compensation** calculated in accordance with clause 13.212(6)

**back office** means a part of an **interrogation** system—

- (a) that sends or receives information to or from a **metering installation**; and
- (b) stores the information in a form that can be made available at the **services access interface** to another person

Clause 1.1(1) **back office**: inserted, on 29 August 2013, by clause 4(1) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**back-up metering information** means **half-hour metering information** from any alternative **metering installation** that measures the same flow of **electricity** at the relevant **grid exit points** and **grid injection points** as would have been given under clause 13.166(1)(b)

**back up protection system** means a protection system—

- (a) that **electrically disconnects** faulted **assets** from the **grid** because a **main protection system** or a **circuit breaker** has failed to **electrically disconnect** a faulted **asset** from the **grid** in the allocated time; and
- (b) that may **electrically disconnect** non-faulted **assets** as well as a faulted **asset**

Clause 1.1(1) **back up protection system**: amended, on 5 October 2017, by clause 4(6)(a) and (b) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**balancing area** means, in relation to any particular **ICP**,—

- (a) the **embedded network**; or
- (b) that part of the relevant **local network** owned by 1 **network owner**—  
having 1 or more **NSPs**, to which that **ICP** is **electrically connected** from time to time under normal circumstances

Clause 1.1(1) **balancing area**: amended, on 23 February 2015, by clause 75 of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.

Clause 1.1(1) **balancing area**: amended, on 5 October 2017, by clause 4(7) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**bank** means a registered bank within the meaning of the Reserve Bank of New Zealand Act 1989 that is carrying on in New Zealand the business of banking

**bank bill bid rate** means the rate per annum (rounded upwards to 2 decimal places) displayed at or about 10.45am on the Reuters Screen on page BKBM (or its successor or equivalent page) on the relevant date as the bank bill “settlement” bid rate for bank bills having a tenor of 1 month, provided that if such a rate is not available, **bank bill bid rate** means the rate determined by the **clearing manager** to be the nearest practicable equivalent

**base case** means a base case **published** by the **Authority** under clause 13.236D

Clause 1.1(1) **base case**: inserted, on 1 December 2011, by clause 4 of the Electricity Industry Participation Code (Spot Price Risk Disclosure) Amendment 2011.

Clause 1.1(1) **base case**: amended, on 5 October 2017, by clause 4(8) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**benchmark agreement** means the agreement for the connection to and/or use of the **grid**, that is incorporated by reference in this Code under clause 12.34

Clause 1.1(1) **benchmark agreement**: amended, on 23 February 2015, by clause 75 of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.

Clause 1.1(1) **benchmark agreement**: amended, on 5 October 2017, by clause 4(9) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**benefit to the public** means public benefit net of any costs and detriments, including those detriments associated with a lessening of competition as those concepts are applied under the Commerce Act 1986

**bid**,—

- (a) means—

- (i) a **nominated bid**;
- (ii) a **difference bid**; and
- (b) includes a **bid** revised in accordance with clause 13.19A or 13.19B

(c) *[Revoked]*

Clause 1.1(1) **bid**: substituted, on 28 June 2012, by clause 4(b) of the Electricity Industry Participation (Demand-side Bidding and Forecasting) Code Amendment 2011.

Clause 1.1(1) **bid** paragraph (b): amended, on 29 June 2017, by clause 4(1)(a) of the Electricity Industry Participation Code Amendment (Shortened Gate Closure and Revised Bid and Offer Provisions) 2017.

Clause 1.1(1) **bid** paragraph (c): revoked, on 29 June 2017, by clause 4(1)(b) of the Electricity Industry Participation Code Amendment (Shortened Gate Closure and Revised Bid and Offer Provisions) 2017.

**binding constraint** means a **constraint** that is likely to cause a significant difference between the price at 1 **node** and the price at another **node**

**billing period** means a period of 1 calendar month

**black start** means an **ancillary service** required to enable a **generating unit** isolated from the **grid** to be—

(a) made live, as defined in the Electricity (Safety) Regulations 2010; and

(b) **electrically connected to the grid**

Clause 1.1(1) **black start**: amended, on 23 February 2015, by clause 75 of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.

Clause 1.1(1) **black start**: replaced, on 5 October 2017, by clause 4(1)(a) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**block dispatch group** means a group of **generating stations** on 1 continuous water course, which is the subject of an agreement between the **system operator** and a **generator** under clause 13.60

**block security constraint** means any of the following:

- (a) a constraint applied by the **system operator** to a **generating unit** or **generating station** to provide **voltage support** or **frequency keeping** as determined in accordance with Part 8
- (b) a limitation in the offered capacity of a **grid owner's network** to convey **electricity** between **generating stations** constituting a **block dispatch group**
- (c) a limitation in the offered capacity of a **grid owner's network** to convey **electricity** between **generating stations** constituting a **block dispatch group** and a **grid owner's network**—

and, in paragraphs (b) and (c), such a limitation in the offered capacity being the offered capacity of a **grid owner's network** or a **grid system security constraint** as determined by the **system operator** in accordance with Part 8

**bona fide physical reason** includes,—

- (a) in relation to a **generator**, or a **purchaser**, or an **ancillary service agent** or a **grid owner**, a situation where personnel or plant safety is at risk; and
- (b) in relation to a **generator** or an **ancillary service agent** providing **partly loaded spinning reserve**, **tail water depressed reserve** or **frequency keeping**,—
  - (i) a reasonably unforeseeable change in generating capability, reserve capability, or **frequency keeping** capability (as the case may be) from an item of **generating plant** that is the subject of an existing **offer**, **reserve**

- offer**, or offer to provide **frequency keeping** by that **generator** or **ancillary service agent**; or
- (ii) a reasonably unforeseeable change in the level of expected uncontrollable water inflows into the head pond of a hydro station that is the subject of an existing **offer**, **reserve offer**, or offer to provide **frequency keeping** by that **generator** or **ancillary service agent**; or
  - (iii) a reasonably unforeseeable change in circumstances such that the **generator** or **ancillary service agent** will breach any consent held by it under the Resource Management Act 1991; or
  - (iv) a reasonably unforeseeable physical infeasibility that arises from a **price-responsive schedule**, a **non-response schedule**, or a **dispatch schedule**; and
- (c) in relation to a **purchaser**, or an **ancillary service agent** providing **interruptible load**,—
- (i) a reasonably unforeseeable full or partial loss of demand or reserve capability (as the case may be) at a **grid exit point** that is the subject of an existing **bid** or **reserve offer** by the **purchaser** or the **ancillary service agent**; or
  - (ii) a reasonably unforeseeable change in circumstances such that the **purchaser** or **ancillary service agent** will breach any consent held by it under the Resource Management Act 1991; or
  - (iii) a reasonably unforeseeable full or partial loss of generating capability from an item of **generating plant** owned by, or the subject of a supply contract with, that **purchaser** during the relevant **trading periods**; and
- (d) in relation to a **grid owner**, a reasonably unforeseeable loss of full or partial capacity on transmission plant forming part of the **grid**

Clause 1.1(1) **bona fide physical reason** paragraph(b)(iv): substituted, on 28 June 2012, by clause 4(c)(i) of the Electricity Industry Participation (Demand-side Bidding and Forecasting) Code Amendment 2011.

Clause 1.1(1) **bona fide physical reason** paragraph(c)and(c)(i): amended, on 28 June 2012, by clause 4(c)(ii)and(iii) of the Electricity Industry Participation (Demand-side Bidding and Forecasting) Code Amendment 2011.

**bound**, in relation to a **transmission security constraint**, means that the flow of **electricity** through 1 or more transmission **lines** or transformers is equal to or greater than the **transmission security constraint** applied to those transmission **lines** or transformers, and **bind** has a corresponding meaning

Clause 1.1(1) **bound**: amended, on 1 February 2016, by clause 4(3) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2015.

**branch** means an electrical link between—

- (a) 2 or more **nodes**; or
- (b) a **node** and a **point of connection** to the **grid**

**business** means the business carried out as a **participant**

**business day** means,—

- (a) for the purposes of Part 6, any day of the week other than Saturday, Sunday, or a public holiday within the meaning of the Holidays Act 2003; and
- (b) for the rest of the Code, any day of the week except Saturdays, Sundays, **national**



**holidays** and any other day from time to time declared by the **Authority** not to be a **business day** by notice to each **registered participant**

Clause 1.1(1) **business day**: amended, on 21 September 2012, by clause 4(1) of the Electricity Industry Participation (Minor Amendments) Code Amendment 2012.

Clause 1.1(1) **business day**: amended, on 5 October 2017, by clause 4(10) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**buyer**, for the purposes of subpart 5 of Part 13, means—

- (a) in respect of a **contract for differences**, the fixed-price payer, being the **party** obliged to make payments at a fixed price from time to time during the **term** of the contract; or
- (b) in respect of a **fixed-price physical supply contract**, the purchaser of **electricity**; or
- (c) in respect of an **options contract**, either—
  - (i) the **party** paying the **premium**; or
  - (ii) if there is no **premium**, the **party** who agrees to be the **buyer** for the purposes of subpart 5 of Part 13; or
  - (iii) if neither **party** agrees to be the **buyer**, the **party** whose name is the first alphabetically

**calibration** means the set of operations that establishes, under specified conditions, the relationship between the values indicated by the measuring system and the corresponding values of a quantity realised by a **reference standard** or **working standard**, and **calibrate** and **calibrated** have corresponding meanings

**calibration report** means a report that contains the results of all **calibration** tests carried out on—

- (a) a **metering installation**; or
- (b) a **metering component** in a **metering installation**; or
- (c) a **working standard**

Clause 1.1(1) **calibration report**: substituted, on 29 August 2013, by clause 4(2)(b) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**call** [*Revoked*]

Clause 1.1(1) **call**: revoked, on 24 March 2015, by clause 4(1)(b) of the Electricity Industry Participation (Settlement and Prudential Security) Code Amendment 2013.

**capacity** [*Revoked*]

Clause 1.1(1) **capacity**: revoked, on 23 February 2015, by clause 4(11) of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.

**capacity reserve** means—

- (a) demand that can be decreased for the purpose of adjusting a **constraint**; or
- (b) generation that can be increased or decreased for the purpose of adjusting a **constraint**

**cash deposit** means the cash deposited in **cleared funds** by a **participant** in accordance with clause 2 of Schedule 14A.1, and includes any interest under clause 14A.14 that has not been paid out

Clause 1.1(1) **cash deposit**: amended, on 24 March 2015, by clause 4(1)(c) of the Electricity Industry Participation (Settlement and Prudential Security) Code Amendment 2013.

**cash deposit accounts** means the trust accounts established by the **clearing manager** in accordance with clause 14A.11

Clause 1.1(1) **cash deposit accounts**: amended, on 24 March 2015, by clause 4(1)(d) of the Electricity Industry Participation (Settlement and Prudential Security) Code Amendment 2013.

**cash interest rate** *[Revoked]*

Clause 1.1(1) **cash interest rate**: revoked, on 24 March 2015, by clause 4(1)(e) of the Electricity Industry Participation (Settlement and Prudential Security) Code Amendment 2013.

**category 1 metering installation** means a **metering installation** that has the required defining characteristics for a **metering installation** of that category in Table 1 of Schedule 10.1

Clause 1.1(1) **category 1 metering installation**: inserted, on 1 December 2011, by clause 4(a) of the Electricity Industry Participation Code (Distributor Use-of-System Agreements and Distributor Tariffs) Amendment 2011.

Clause 1.1(1) **category 1 metering installation**: substituted, on 29 August 2013, by clause 4(2)(c) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**category 2 metering installation** means a **metering installation** that has the required defining characteristics for a **metering installation** of that category in Table 1 of Schedule 10.1

Clause 1.1(1) **category 2 metering installation**: inserted, on 1 December 2011, by clause 4(a) of the Electricity Industry Participation Code (Distributor Use-of-System Agreements and Distributor Tariffs) Amendment 2011.

Clause 1.1(1) **category 2 metering installation**: substituted, on 29 August 2013, by clause 4(2)(d) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**causer**, in relation to an **under-frequency event**, means—

- (a) if the **under-frequency event** is caused by an interruption or reduction of **electricity** from a single **generator's** or **grid owner's asset** or **assets**, the **generator** or **grid owner**; unless—
  - (i) the **under-frequency event** is caused by an interruption or reduction of **electricity** from a single **generator's asset** or **assets** but another **generator's** or a **grid owner's** act or omission or property causes the interruption or reduction of **electricity**, in which case the other **generator** or the **grid owner** is the **causer**; or
  - (ii) the **under-frequency event** is caused by an interruption or reduction of **electricity** from a single **grid owner's asset** or **assets** but a **generator's** or another **grid owner's** act or omission or property causes the interruption or reduction of **electricity**, in which case the **generator** or other **grid owner** is the **causer**; or
- (b) if the **under-frequency event** is caused by more than 1 interruption or reduction of **electricity**, the **generator** or **grid owner** who, in accordance with paragraph (a), would be the **causer** of the **under-frequency event** if it had been caused by the first in time of the interruption or reduction of **electricity**; but
- (c) if an interruption or reduction of **electricity** occurs in order to comply with this Code, the interruption or reduction of **electricity** must be disregarded for the purposes of determining the **causer** of the **under-frequency event**

**centralised data set** *[Revoked]*

Clause 1.1(1) **centralised data set**: revoked, on 1 February 2016, by clause 4(2) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2015.

**certification** means—

- (a) if applied to a **metering installation**, confirmation that the **metering installation** meets the requirements of this Code; and
- (b) if applied to a **metering component**, confirmation that the **metering component** meets the requirements of this Code; and
- (c) if applied to a **reconciliation participant**, confirmation that that **reconciliation participant** has met the requirements of Schedule 15.1

Clause 1.1(1) **certification**: amended, on 29 August 2013, by clause 4(2)(e) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**certification report** means a report that contains—

- (a) the **calibration report** or **calibration reports**;
- (b) all other information relevant to the **certification** of a **metering installation** or a **metering component** required under Part 10

Clause 1.1(1) **certification report**: substituted, on 29 August 2013, by clause 4(2)(f) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**certification sticker** means a sticker that is valid for a specific period and that is attached—

- (a) to a **metering installation**, confirming that the **metering installation** has been **certified** by an **ATH** under Schedule 10.7; or
- (b) to a **metering component**, confirming that the **metering component** has been **certified** by an **ATH** under Schedule 10.8

Clause 1.1(1) **certification sticker**: substituted, on 29 August 2013, by clause 4(2)(g) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**certified** means having achieved **certification**

**certify** means to carry out a **certification**

**chargeable capacity** means the capacity that the **distributor** may charge for, but that may not be the actual installed capacity at the relevant **ICP**

**check metering information** means **half-hour metering information** from a **meter**, located at the **grid exit point** or **grid injection point** that gives equivalent information, but not necessarily of the same accuracy, as the relevant **grid exit point** or **grid injection point meter**

**circuit branch** means a **branch** that is not a **transformer branch** or the **HVDC link**

**circuit breaker** means a switching device capable of making, carrying and breaking currents under normal circuit conditions, and capable of making, carrying for a specified time and breaking currents under specified abnormal conditions (such as a short circuit)

**circuit breaker failure protection system** means a protection system that—

- (a) operates because a **circuit breaker** has failed to **electrically disconnect** a faulted **asset** from the **grid** in the allocated time; and
- (b) may **electrically disconnect** non-faulted **assets** from the **grid** as well as a faulted **asset**

Clause 1.1(1) **circuit breaker failure protection system**: amended, on 5 October 2017, by clause 4(11) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**class A approved test house** [*Revoked*]

Clause 1.1(1) **class A approved test house**: revoked, on 29 August 2013, by clause 4(3) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**class A ATH** means an **ATH** who is approved under clause 3 of Schedule 10.3

Clause 1.1(1) **class A ATH**: inserted, on 29 August 2013, by clause 4(1) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**class B approved test house** *[Revoked]*

Clause 1.1(1) **class B approved test house**: revoked, on 29 August 2013, by clause 4(3) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**class B ATH** means an **ATH** who is approved under clause 4 of Schedule 10.3

Clause 1.1(1) **class B ATH**: inserted, on 29 August 2013, by clause 4(1) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**cleared funds**, in relation to a **business day**, means funds that are immediately available for disbursement on that day

**clearing auction price** means the lowest successful price bid at an **auction** in dollars per **MW** per **half hour**

**clearing manager** has the meaning given to it in section 5 of the **Act**

**Code information** means all information that is supplied by 1 **participant** to another **participant**, or group of **participants**, under this Code (other than **excluded Code information** and information that is supplied under Parts 2 to 6 and 9 of this Code)

Clause 1.1(1) **Code information**: amended, on 16 December 2013, by clause 4(1) of the Electricity Industry Participation (Revocation of Part 16) Code Amendment 2013.

**code of practice** means a code of practice issued under this Code

Clause 1.1(1) **code of practice**: amended, on 29 August 2013, by clause 4(2)(h) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**co-efficient of variation** means the ratio of the standard deviation to the mean of the distribution for the random variable under consideration

**co-generator** *[Revoked]*

Clause 1.1(1) **co-generator**: revoked, on 27 May 2015, by clause 4(1) of the Electricity Industry Participation Code Amendment (Industrial Co-generation Dispatch Arrangements) 2015.

**commissioning** means to verify the correct operation of—

- (a) an **asset**; or
- (b) a **point of connection**; or
- (c) metering equipment installed in a **metering installation**,—

and **commissioned** has a corresponding meaning

Clause 1.1(1) **commissioning**: amended, on 29 August 2013, by clause 4(2) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2013.

Clause 1.1(1) **commissioning**: replaced, on 5 October 2017, by clause 4(1)(b) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**commissioning report** *[Revoked]*

Clause 1.1(1) **commissioning report**: revoked, on 29 August 2013, by clause 4(3) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**committed projects** means transmission augmentation projects and **non-transmission projects** that are reasonably likely to proceed in a similar timeframe for which the assessment of costs and benefits under a net benefits test set out in Part 12 is undertaken, and in relation to which either—

- (a) all of the following are satisfied:
  - (i) the proponent has obtained all required planning consents, construction approvals, and licences, and fulfilled any other regulatory requirement that must be met before commencing construction:
  - (ii) construction has commenced or a firm commencement date for construction has been set:
  - (iii) the proponent has acquired or executed an agreement to acquire land (or commenced legal proceedings to acquire land), or has executed an agreement for the leasing of land, for the purposes of construction:
  - (iv) contracts for supply and construction of the major components of the plant and equipment (including any **generating units**, turbines, boilers, transmission towers, conductors, termination station equipment) have been executed (i.e. all the necessary formal legal requirements have been observed to make the contract valid and complete):
  - (v) contracts for the financing of the project, including any debt plans, have been executed (i.e. all the necessary formal legal requirements have been observed to make the contract valid and complete); or
- (b) in the case of transmission augmentation projects, the project is an **approved investment**

**common quality** means those elements of quality of **electricity** conveyed across the **grid** that cannot be technically or commercially isolated to an identifiable person or group of persons

**communication** means, for the purposes of Part 10, the electronic transfer of information, or instructions, to or from a **metering installation**

Clause 1.1(1) **communication**: inserted, on 29 August 2013, by clause 4(1) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**communication equipment** means a device, used for **communication**, in—

- (a) a **metering installation**; or
- (b) a **back office**

Clause 1.1(1) **communication equipment**: inserted, on 29 August 2013, by clause 4(1) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**comparative recertification** means **recertification** of a **category 2 metering installation** under clause 12(3) of Schedule 10.7

Clause 1.1(1) **comparative recertification**: inserted, on 29 August 2013, by clause 4(1) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**compensation factor** means 1 of the following factors used to compensate for errors, losses, or ratios within a **metering installation**, to produce accurate **volume information**:

- (a) **error compensation**:
- (b) **loss compensation**:
- (c) **ratio compensation**

Clause 1.1(1) **compensation factor**: inserted, on 29 August 2013, by clause 4(1) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**complete** [*Revoked*]

Clause 1.1(1) **complete**: revoked, on 16 December 2013, by clause 4(2)(a) of the Electricity Industry Participation (Revocation of Part 16) Code Amendment 2013.

**confidential information**, for the purposes of Schedule 6.2, means all data and other information of a confidential nature provided by 1 party (A) to another party (B) under the **regulated terms**, but excludes—

- (a) information known to B before the date it was provided by B to A and that was not obtained directly or indirectly from A; and
- (b) information obtained bona fide from another person who is in lawful possession of the information and who did not acquire the information directly or indirectly from A under an obligation of confidence

**configuration**, in relation to the **HVDC link**, means the following modes of operation of the **HVDC link**:

- (a) Pole 1 one half pole only:
- (b) Pole 2 only:
- (c) Pole 3 only:
- (d) Pole 2 and Pole 1 one half pole:
- (e) Pole 3 and Pole 2 bipole **round power**:
- (f) Pole 3 and Pole 2 bipole not **round power**

Clause 1.1 **configuration**: substituted, on 1 July 2012, by clause 4(2) of the Electricity Industry Participation (HVDC Pole 3 Minor Amendments) Code Amendment 2012.

**conforming GXP** means a **GXP** that—

- (a) has been determined by the **Authority** to be a **conforming GXP** under clause 13.27A or 13.27B(4); or
- (b) is deemed to be a **conforming GXP** under clause 13.27F

Clause 1.1(1) **conforming GXP**: inserted, on 28 March 2012, by clause 4(a) of the Electricity Industry Participation (Demand-side Bidding and Forecasting) Code Amendment 2011.

**congestion management policy** means the policies, clauses, or conditions referred to in clause 6.3(2)(d)

**connect***[Revoked]*

Clause 1.1(1) **connect**: amended, on 23 February 2015, by clause 4(2) of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.

Clause 1.1(1) **connect**: revoked, on 5 October 2017, by clause 4(60) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**connected asset owner** means a **direct consumer**, or a **distributor** in its capacity as the owner or operator of a **local network**

Clause 1.1(1) **connected asset owner**: inserted, on 1 February 2016, by clause 4(19) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2015.

**connection and operation standards**, in relation to a **distributor** or **distributed generation**,—

- (a) means requirements, as amended from time to time by the **distributor**, that—
  - (i) are set out in written policies and standards of the **distributor**; and
  - (ii) relate to connecting **distributed generation** to a **distribution network** or to a **consumer installation** that is connected to a **distribution network**, and the operation of the **distribution network**, including requirements relating to the planning, design, construction, testing, inspection, and operation of **distributed generation** that is, or is proposed to be, connected; and

- (iii) are made publicly available in accordance with clause 6.3; and
- (iv) reflect, or are consistent with, **reasonable and prudent operating practice**; and
- (b) includes the following, as amended from time to time by the **distributor**:
  - (i) the **distributor's congestion management policy**, as referred to in clause 6.3(2)(d); and
  - (ii) the **distributor's** emergency response policies; and
  - (iii) the **distributor's** safety standards

Clause 1.1(1) **connection and operation standards**: amended, on 23 February 2015, by clause 4(3) of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.

Clause 1.1(1) **connection and operation standards**: amended, on 23 February 2015, by clause 75 of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.

Clause 1.1(1) **connection and operation standards**, paragraph (a)(ii): replaced, on 5 October 2017, by clause 4(12) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**connection asset**, for the purposes of subparts 2, 6 and 7 of Part 12, has the meaning set out in the **transmission pricing methodology**

**Connection Code** means the Connection Code that is incorporated by reference in this Code under clause 12.26

**connection location** means a substation or other location at which **lines**, equipment and plant owned or managed by a **designated transmission customer** that are directly related to a **point of connection**, and that are used for the consumption, conveyance, or generation of **electricity**, are directly connected to the **grid**

Clause 1.1(1) **connection location**: amended, on 23 February 2015, by clause 75 of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.

Clause 1.1(1) **connection location**: amended, on 1 February 2016, by clause 4(4) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2015.

Clause 1.1(1) **connection location**: amended, on 5 October 2017, by clause 4(13) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**constrained off amounts** means the amounts calculated by the **clearing manager** under clauses 13.194 to 13.196

**constrained off compensation** means either—

- (a) **constrained off amounts** owing to a **dispatched purchaser** under clause 13.201A; or
- (b) **constrained off amounts** owing to the **clearing manager** under clause 13.201A by **purchasers**

Clause 1.1(1) **constrained off compensation**: inserted, on 15 May 2014, by clause 5(1) of the Electricity Industry Participation (Modified Dispatchable Demand) Code Amendment 2013.

Clause 1.1(1) **constrained off compensation**: amended, on 24 March 2015, by clause 4(1)(g) of the Electricity Industry Participation (Settlement and Prudential Security) Code Amendment 2013.

**constrained off situation** means a situation as defined in clause 13.192

**constrained on amounts** means the amounts calculated by the **clearing manager** under clauses 13.204 and 13.205

**constrained on compensation** means, as the case may be,—

- (a) the **constrained on amounts** owing to—
  - (i) a **generator** under clause 13.212(1)(a); or
  - (ii) an **ancillary service agent** under clause 13.212(1)(a); or
  - (iii) a **dispatched purchaser** under clause 13.212(1)(b); or

- (b) the **constrained on amounts** owing by—  
(i) the **system operator** under clause 13.212(2); or  
(ii) a **purchaser** under clause 13.212(5)

Clause 1.1(1) **constrained on compensation**: substituted, on 15 May 2014, by clause 5(2) of the Electricity Industry Participation (Modified Dispatchable Demand) Code Amendment 2013.

Clause 1.1(1) **constrained on compensation**: amended, on 24 March 2015, by clause 4(1)(f) of the Electricity Industry Participation (Settlement and Prudential Security) Code Amendment 2013.

**constrained on situation** means a situation as defined in clause 13.202

**constraint** means a limitation in the capacity of the **grid** to convey electricity caused by limitations in capability of available **assets** forming the **grid** or limitations in the performance of the integrated power system

**constraint price**, in relation to a transmission security constraint, means the amount in dollars and cents per **MW** per hour by which the objective function described in clause 8 of schedule 13.3 is increased by relaxing the transmission security constraint by a very small amount

Clause 1.1(1) **constraint price**: amended, on 15 May 2014, by clause 4(1) of the Electricity Industry Participation (Minor Code Amendments) Code Amendment 2014.

**construct**, for the purposes of the definition of **associated equipment** and Part 6, includes to erect, to lay, and to place, and **construction** has a corresponding meaning  
Clause 1.1(1) **construct**: amended, on 21 September 2012, by clause 4(2) of the Electricity Industry Participation (Minor Amendments) Code Amendment 2012.

**consumer** means a person who is supplied **electricity** for consumption, and includes a **distributor**, a **retailer** or a **generator** if the **distributor**, or the **retailer** or the **generator** is supplied with **electricity** for its own consumption

**consumer installation**, for the purposes of the definition of **associated equipment** and Part 6, means—

- (a) all fittings that are part of a system for conveying **electricity** from a **consumer's point of supply** to any point from which **electricity** conveyed through that system may be consumed; and  
(b) includes any fittings that are used, or designed or intended for use, by any person in, or in relation to, the generation of **electricity**—  
(i) for that person's use and not for supply to any other person; or  
(ii) so that **electricity** can be injected into a **distribution network**; but  
(c) does not include any appliance that uses, or is designed or intended to use, **electricity**, whether or not it also uses, or is designed or intended to use, any other form of energy

Clause 1.1(1) **consumer installation**: substituted, on 23 February 2015, by clause 4(4)(a) of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.

Clause 1.1(1) **consumer installation**: amended, on 5 October 2017, by clause 4(14) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**consumption information** means the information describing the quantity of **electricity** conveyed during the period for which the information is required, which may be directly measured or calculated from information obtained from a **metering installation**, or calculated in accordance with this Code



**consumption pattern** means, for the purposes of this Part and Schedule 15.5, the shape of the half **hourly** consumption

**consumption period** means a calendar month during which **electricity** is supplied to **consumers** (and conversely produced by **generators**)

**contract for differences**, for the purposes of subpart 5 of Part 13, means a financial derivative contract—

- (a) under which 1 or both **parties** makes or may make a payment to the other **party**; and
- (b) in which the payment to be made depends on, or is derived from, the price of a specified **quantity** of **electricity** at a particular time; and
- (c) that may provide a means for the risk to 1 or both **parties** of an increase or decrease in the price of **electricity** to be reduced or eliminated; and
- (d) that either—
  - (i) relates to a quantity of **electricity** that equals or exceeds 0.25 **MW** of **electricity**; or
  - (ii) is entered into through a derivatives exchange, being a market in which **parties** trade standardised financial derivative contracts, and contracts containing the right to buy or sell standardised financial derivative contracts, with a central counterparty

Clause 1.1(1) **contract for differences**: amended, on 15 January 2016, by clause 4(5) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2015.

**contract price** means, in respect of a **risk management contract**, a single price that has, in accordance with clause 13.220, been calculated, time weighted, adjusted to a location factor for the relevant **grid zone area**, and corrected for losses, for the purposes of subpart 5 of Part 13

**contract price schedule** means, in respect of a **risk management contract**, a price or series of prices to be paid under that contract in respect of specified times or amounts and at a single location

**contract specifications** means specifications prescribing the specific terms of, and terms of trading in, each class of contract that may from time to time be traded on a market under this Code

**control device** means a device in a **metering installation** that controls either or both of the following:

- (a) **electricity**—
  - (i) conveyed through the **metering installation**; and
  - (ii) used to satisfy controllable load:
- (b) a **meter** register in the **metering installation**

Clause 1.1(1) **control device**: inserted, on 29 August 2013, by clause 4(1) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**controller** means,—

- (a) in relation to a company,—
  - (i) any person in accordance with whose directions and instructions the persons

- occupying the position of directors of the company are accustomed to act (but disregarding advice given in a professional capacity); or
- (ii) any person who is entitled to exercise, or control the exercise of, 50% or more of the voting power at any general meeting of the company or of another company of which the company is a **subsidiary**; and
- (b) in relation to an unincorporated body of persons,—
- (i) any person in accordance with whose directions and instructions the officers of the body are accustomed to act (but disregarding advice given in a professional capacity); or
  - (ii) any person who is entitled to exercise, or control the exercise of, 50% or more of the voting power on any resolution of the body;
- (c) in relation to any person, any person who has the power to appoint or remove a majority of the participants of the governing body of that person or otherwise controls or has the power to control the affairs or policies of that person,—
- and **control** and **controlled** have corresponding meanings

**control room** means the location at which **asset owners** have facilities to receive operational instructions from the **system operator** and to act on those instructions

**control system** means equipment that adjusts the output voltage, frequency, **MW** or **reactive power** (as the case may be) of an **asset** in response to certain aspects of **common quality** such as voltage, frequency, **MW** or **reactive power**, including speed governors and exciters

**core grid** means the **assets** that form part of the **core grid** as specified in the **core grid determination**

**core grid determination** means the determination specifying the **assets** forming part of the **core grid**, developed in accordance with clauses 12.63 to 12.69, including variations

**customer** *[Revoked]*

Clause 1.1(1) **customer**: revoked, on 1 November 2018, by clause 4(1) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2018.

**customer compensation scheme** means a **default customer compensation scheme** or an **additional customer compensation scheme**

Clause 1.1(1) **customer compensation scheme**: inserted, on 1 April 2011, by clause 4(1) of the Electricity Industry Participation (Customer Compensation Schemes) Code Amendment 2011.

**data logger** *[Revoked]*

Clause 1.1(1) **data logger**: revoked, on 15 May 2014, by clause 4(2) of the Electricity Industry Participation (Minor Code Amendments) Code Amendment 2014.

**data storage device** means a device in a **metering installation**, whether or not integral to the **meter**, that—

- (a) electronically stores data and **event logs** used to provide information for the purposes of Part 15; and
- (b) makes the data and **event logs** available during an **interrogation**

Clause 1.1(1) **data storage device**: inserted, on 29 August 2013, by clause 4(1) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**declaration date** means the date, nominated by the **profile applicant**, on which the **Authority** must, for a particular **profile**, give written notice to every **registered participant** of the information set out in clause 13 of Schedule 15.5 for that **profile**  
Clause 1.1(1) **declaration date**: amended, on 5 October 2017, by clause 4(15) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**decommissioning** means—

- (a) the permanent removal from service of—
  - (i) an **asset**; or
  - (ii) a **point of connection**; or
  - (iii) a **metering installation** associated with a **point of connection**; or
- (b) for the purposes of Parts 11 and 15, the permanent removal of a **point of connection** by—
  - (i) permanently removing an **electrical installation** associated with the **point of connection**; or
  - (ii) changing the allocation of electrical loads between **points of connection** with the effect of making the **point of connection** obsolete; or
  - (iii) in the case of a **distributor-only ICP** for an **embedded network**, the **embedded network** ceasing to exist

and **decommission** and **decommissioned** have corresponding meanings

Clause 1.1(1) **decommissioning**: inserted, on 29 August 2013, by clause 4(1) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

Clause 1.1(1) **decommissioning**, paragraph (a): replaced, on 5 October 2017, by clause 4(16) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**de-energisation** [*Revoked*]

Clause 1.1(1) **de-energisation**: amended, on 29 August 2013, by clause 4(2)(i) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

Clause 1.1(1) **de-energisation**: amended, on 1 February 2016, by clause 4(6) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2015.

Clause 1.1(1) **de-energisation**: revoked, on 5 October 2017, by clause 4(60) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**de-energise** [*Revoked*]

Clause 1.1(1) **de-energise**: inserted, on 29 August 2013, by clause 4(3) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2013.

Clause 1.1(1) **de-energise**: revoked, on 1 February 2016, by clause 4(2) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2015.

**default customer compensation scheme** means a scheme that complies with clause 9.24

Clause 1.1(1) **default customer compensation scheme**: inserted, on 1 April 2011, by clause 4(1) of the Electricity Industry Participation (Customer Compensation Schemes) Code Amendment 2011.

**default interest rate** means the **bank bill bid rate** plus 5% per annum

**demand** means the rate of consumption of electrical energy

**designated transmission customers** means **participants** who are required to enter into **transmission agreements** with **Transpower** under subpart 2 of Part 12

**difference bid** means the information that a **purchaser** submits to the **system operator** under clause 13.7AA to indicate a reasonable estimate of an increase or decrease in the **purchaser's** usual **non-dispatch-capable load** purchased at a **conforming GXP**

Clause 1.1(1) **difference bid**: inserted, on 28 June 2012, by clause 4(a) of the Electricity Industry Participation (Demand-side Bidding and Forecasting) Code Amendment 2011.

Clause 1.1(1) **difference bid**: substituted, on 15 May 2014, by clause 5(2) of the Electricity Industry Participation (Modified Dispatchable Demand) Code Amendment 2013.

Clause 1.1(1) **difference bid**: amended, on 29 June 2017, by clause 4(2) of the Electricity Industry Participation Code Amendment (Shortened Gate Closure and Revised Bid and Offer Provisions) 2017.

**direct consumer** means a **consumer** with a **point of connection** to the **grid**

**direct purchaser** means a **consumer** who purchases, or agrees to purchase, **electricity** directly from the **clearing manager** for its own consumption at a **point of connection**

**disclosed** *[Revoked]*

Clause 1.1(1) **disclosed**: revoked, on 16 December 2013, by clause 4(2)(b) of the Electricity Industry Participation (Revocation of Part 16) Code Amendment 2013.

**disclosing participant** means any of the following:

(a) a person who consumes **electricity** that is conveyed to the person directly from the national **grid**;

(b) a person who buys **electricity** from the **clearing manager**

Clause 1.1(1) **disclosing participant**: inserted, on 1 December 2011, by clause 4 of the Electricity Industry Participation Code (Spot Price Risk Disclosure) Amendment 2011.

**disclosure information**, in relation to a **participant**, means information that—

(a) is about the **participant**; and

(b) is held by the **participant**; and

(c) the **participant** expects, or ought reasonably to expect, if made available to the public, will have a material impact on prices in the **wholesale market**

Clause 1.1(1) **disclosure information**: inserted, on 1 October 2013, by clause 4(1) of the Electricity Industry Participation (Disclosure Obligations) Code Amendment 2013.

Clause 1.1(1) **disclosure information**: amended, on 5 October 2017, by clause 4(17) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**disconnected** *[Revoked]*

Clause 1.1(1) **disconnected**: amended, on 23 February 2015, by clause 75 of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.

Clause 1.1(1) **disconnected**: revoked, on 5 October 2017, by clause 4(60) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**dispatch** means the process of—

(a) pre-dispatch scheduling, to match expected **supply** with expected **demand**, and to allocate **ancillary service offers** and transmission **offers** to match expected **grid** conditions; and

(b) rescheduling to meet forecast **demand**; and

(c) issuing instructions based on the **dispatch schedule** and the real-time conditions to manage resources to meet the actual **demand**,—

and **dispatching** has a corresponding meaning

Clause 1.1(1) **dispatch** paragraphs (a) and (c): amended, on 28 June 2012, by clause 4(d) of the Electricity Industry Participation (Demand-side Bidding and Forecasting) Code Amendment 2011.

**dispatch arc flows** *[Revoked]*

Clause 1.1(1) **dispatch arc flows**: revoked, on 28 June 2012, by clause 4(i) of the Electricity Industry Participation (Demand-side Bidding and Forecasting) Code Amendment 2011.

**dispatch group constraint arc flows** *[Revoked]*

Clause 1.1(1) **dispatch group constraint arc flows**: revoked, on 28 June 2012, by clause 4(i) of the Electricity Industry Participation (Demand-side Bidding and Forecasting) Code Amendment 2011.

**dispatch instruction** means an instruction issued by the **system operator** under clause 13.72(1)

Clause 1.1(1) **dispatch instruction**: substituted, on 15 May 2014, by clause 5(2) of the Electricity Industry Participation (Modified Dispatchable Demand) Code Amendment 2013.

**dispatch objective** means the objective defined in clause 13.57

**dispatch prices** *[Revoked]*

Clause 1.1(1) **dispatch prices**: revoked, on 28 June 2012, by clause 4(i) of the Electricity Industry Participation (Demand-side Bidding and Forecasting) Code Amendment 2011.

**dispatch quantities** *[Revoked]*

Clause 1.1(1) **dispatch quantities**: revoked, on 28 June 2012, by clause 4(i) of the Electricity Industry Participation (Demand-side Bidding and Forecasting) Code Amendment 2011.

**dispatch schedule** means the schedule produced by the **system operator** under clause 13.69A

Clause 1.1(1) **dispatch schedule**: substituted, on 15 May 2014, by clause 5(2) of the Electricity Industry Participation (Modified Dispatchable Demand) Code Amendment 2013.

**dispatchable load information** means the **volume information**—

- (a) of each **dispatch-capable load station** for each **trading period** in a **consumption period**; and
- (b) that is—
  - (i) prepared under clause 15.5A or 15.5B; and
  - (ii) aggregated and rounded in accordance with clause 15.5C

Clause 1.1(1) **dispatchable load information**: inserted, on 15 May 2014, by clause 5(1) of the Electricity Industry Participation (Modified Dispatchable Demand) Code Amendment 2013.

**dispatchable load purchaser** means a **purchaser** that purchases **electricity** for a **dispatch-capable load station**

Clause 1.1(1) **dispatchable load purchaser**: inserted, on 15 May 2014, by clause 5(1) of the Electricity Industry Participation (Modified Dispatchable Demand) Code Amendment 2013.

**dispatch-capable load station** means a device or a group of devices approved as a **dispatch-capable load station** under clause 13.3A

Clause 1.1(1) **dispatch-capable load station**: inserted, on 15 May 2014, by clause 5(1) of the Electricity Industry Participation (Modified Dispatchable Demand) Code Amendment 2013.

**dispatch-capable load station identifier** means a unique code—

- (a) assigned to a **dispatch-capable load station** under clause 6(2) of Schedule 13.8; and
- (b) that is used to identify the **dispatch-capable load station**

Clause 1.1(1) **dispatch-capable load station identifier**: inserted, on 15 May 2014, by clause 5(1) of the Electricity Industry Participation (Modified Dispatchable Demand) Code Amendment 2013.

**dispatched purchaser** means a **dispatchable load purchaser**,—

- (a) issued with a **dispatch instruction** under clause 13.72(1)(b) for 1 or more **dispatch-capable load stations**; or
- (b) issued with a **dispatch instruction** in accordance with backup procedures under clause 13.81(2) for 1 or more **dispatch-capable load stations**

Clause 1.1(1) **dispatched purchaser**: inserted, on 15 May 2014, by clause 5(1) of the Electricity Industry Participation (Modified Dispatchable Demand) Code Amendment 2013.

**dispensation** means an exclusion from compliance with an **AOPO** or **technical code** granted by the **system operator** in accordance with the process set out in clauses 8.29 to 8.31

**distributed generation** means **generating plant** that is connected, or that a **distributed generator** proposes to connect, to a **distribution network** or to a **consumer installation** that is connected to a **distribution network**, but does not include—

- (a) **generating plant** that is connected, or that a **participant** proposes to connect, to a **distribution network** and that is operated by a **distributor** for the purpose of maintaining or restoring the provision of **electricity** to part or all of the **distributor's distribution network**—
  - (i) as a result of a planned **distribution network** outage; or
  - (ii) as a result of an unplanned **distribution network** outage; or
  - (iii) during a period when the **distribution network capacity** would otherwise be exceeded on part or all of the **distribution network**; or
- (b) **generating plant** that is only momentarily **synchronised**, or that a **participant** proposes only to momentarily **synchronise**, with the **distribution network** for the purpose of switching operations to start or stop the **generating plant**

Clause 1.1(1) **distributed generation**: substituted, on 23 February 2015, by clause 4(4)(b) of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.

Clause 1.1(1) **distributed generation**: replaced, on 5 October 2017, by clause 4(1)(c) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**distributed generator**, for the purposes of Part 6, means a person who owns or operates, or intends to own or operate, **distributed generation**

Clause 1.1(1) **distributed generator**: amended, on 23 February 2015, by clause 4(5) of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.

**distributed unmetered load** means **unmetered load** with a single **profile** supplied across more than 1 **point of connection** to either 1 customer of a **retailer** or to 1 **direct purchaser**

Clause 1.1(1) **distributed unmetered load**: amended, on 1 November 2018, by clause 4(2) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2018.

**distribution** has the meaning given to it by section 5 of the **Act**

Clause 1.1(1) **distribution**: inserted, on 1 February 2016, by clause 4(19) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2015.

**distribution network** means the **electricity lines**, and **associated equipment**, owned or operated by a **distributor**

Clause 1.1(1) **distributed network**: amended, on 23 February 2015, by clause 4(6) of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.

**distribution network capacity** means the capacity of a **distribution network** to convey **electricity** under a range of load and **generation** conditions in accordance with **reasonable and prudent operating practice**

Clause 1.1(1) **distribution network capacity**: inserted, on 23 February 2015, by clause 4(12) of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.

**distributor** has the meaning given to it by section 5 of the **Act**

Clause 1.1(1) **distributor**: amended, on 21 September 2012, by clause 4(3) of the Electricity Industry Participation (Minor Amendments) Code Amendment 2012.

Clause 1.1(1) **distributor**: amended, on 23 February 2015, by clause 4(7) of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.

Clause 1.1(1) **distributor**: amended, on 24 March 2015, by clause 4(1)(h) of the Electricity Industry Participation (Settlement and Prudential Security) Code Amendment 2013.

Clause 1.1(1) **distributor**: substituted, on 1 February 2016, by clause 4(1)(b) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2015.

**distributor installation details** means any information, additional to **price category** and **chargeable capacity**, that may be used to calculate line charges applicable to an **ICP**

**distributor kvar reference node** means a notional node that represents a group of **grid exit points** within a **zone** for which a **distributor** nominates peak demand in kvar, and for which the individual kvar quantities measured at the individual **grid exit points** within the group are aggregated for **voltage support** charging purposes, as approved by the **system operator** (such approval not to be unreasonably withheld)

**document**, for the purposes of paragraph (b) of the definition of **publish**, and Parts 2 and 6, has the meaning given to it in section 2(1) of the Official Information Act 1982  
Clause 1.1(1) **document**: amended, on 16 December 2013, by clause 4(3)(a) and (b) of the Electricity Industry Participation (Revocation of Part 16) Code Amendment 2013.

**domestic consumer** means a person who acquires **electricity** for personal, domestic or household use or consumption and does not acquire **electricity** or hold himself or herself out as acquiring **electricity** for the purpose of resupplying it in trade or consuming it in the course of production or manufacture

**draft policy statement** means a document provided for in clause 8.10A(2), 8.11A(1), or 8.12A(1)

Clause 1.1(1) **draft policy statement**: amended, on 10 January 2013, by clause 4(1) of the Electricity Industry Participation (Policy Statement and Procurement Plan Review Process) Code Amendment 2012.

**draft procurement plan** means a document provided for in clause 8.42A(2), 8.43A(1), or 8.44A(1)

Clause 1.1(1) **draft procurement plan**: amended, on 10 January 2013, by clause 4(2) of the Electricity Industry Participation (Policy Statement and Procurement Plan Review Process) Code Amendment 2012.

**effective date**, for the purposes of subpart 5 of Part 13, means the date of the first **trading period** to which a **risk management contract** applies

**EIEP** means an electricity information exchange protocol that sets out standard formats for the exchange or provision of information

Clause 1.1(1) **EIEP**: inserted, on 16 December 2013, by clause 4(a) of the Electricity Industry Participation (Electricity Information Exchange Protocols) Code Amendment 2013.

Clause 1.1(1) **EIEP**: amended, on 1 February 2016, by clause 4(7) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2015.

**EIEP12** *[Revoked]*

Clause 1.1(1) **EIEP12**: inserted, on 1 December 2011, by clause 4(a) of the Electricity Industry Participation Code (Distributor Use-of-System Agreements and Distributor Tariffs) Amendment 2011.

Clause 1.1(1) **EIEP12**: revoked, on 16 December 2013, by clause 4(b) of the Electricity Industry Participation (Electricity Information Exchange Protocols) Amendment 2013.

**electrical installation** means,—

(a) *[revoked]*

(b) all fittings that form part of a system for conveying **electricity** at any point from an **ICP** to any point from which **electricity** conveyed through that system may be consumed (including any fittings that are used or designed or intended for use by any person in, or in relation to, the generation of **electricity** for that person's use and not for supply to any other person), but does not include any electrical appliance

Clause 1.1(1) **electrical installation paragraph (a)**: revoked, on 23 February 2015, by clause 4(8)(a) of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.  
Clause 1.1(1) **electrical installation paragraph (b)**: amended, on 23 February 2015, by clause 4(8)(b) of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.  
Clause 1.1(1) **electrical installation paragraph (b)**: amended, on 5 October 2017, by clause 4(18) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**electrically connect** means to operate a device so that **electricity** is able to flow, including through a **point of connection**, and **electrically connected**, **electrically connecting**, **electrical connection**, and similar phrases have corresponding meanings  
Clause 1.1(1) **electrically connect**: inserted, on 5 October 2017, by clause 4(61) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**electrically connecting** *[Revoked]*

Clause 1.1(1) **electrically connecting**: inserted, on 29 August 2013, by clause 4(2) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011, Amendment 2013 (No 2).  
Clause 1.1(1) **electrically connecting**: amended, on 23 February 2015, by clause 75 of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.  
Clause 1.1(1) **electrically connecting**: revoked, on 5 October 2017, by clause 4(60) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**electrically disconnect** means to operate a device so that **electricity** is unable to flow, including through a **point of connection**, and **electrically disconnected**, **electrically disconnecting**, **electrical disconnection**, and similar phrases have corresponding meanings  
Clause 1.1(1) **electrically disconnect**: inserted, on 5 October 2017, by clause 4(61) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**electricity** means electrical energy measured in kilowatt-hours (kWh)

**electricity supplied** means, for any particular period, the information relating to the quantities of **electricity** supplied by **retailers** across **points of connection** to **consumers**, sourced directly from the **retailer's** financial records, including quantities—

- (a) that are metered or unmetered; and
- (b) supplied through normal customer supply and billing arrangements; and
- (c) supplied under sponsorship arrangements; and
- (d) supplied under any other arrangement

Clause 1.1(1) **electricity supplied**: amended, on 1 November 2018, by clause 4(3) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2018.

**embedded generating station** means 1 or more **generating units** that are directly connected to a **local network** or an **embedded network** and that injects into a **local network** or an **embedded network** at a single point of **injection**

Clause 1.1(1) **embedded generating station**: amended, on 23 February 2015, by clause 75 of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.

Clause 1.1(1) **embedded generating station**: amended, on 5 October 2017, by clause 4(19) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**embedded generator** means a **generator** who owns or operates 1 or more **embedded generating stations**

**embedded network** means a system of **lines**, substations, and other **works**, used primarily for the conveyance of **electricity**, that—

- (a) is indirectly connected to the **grid** through 1 or more other **networks**; and
- (b) has 1 or more **ICP identifiers** recorded in the **registry** as being connected to it



Clause 1.1(1) **embedded network**: amended, on 1 February 2016, by clause 4(1)(c) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2015.

Clause 1.1(1) **embedded network**: replaced, on 5 October 2017, by clause 4(20) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**emergency management policy** means the emergency management policy that is incorporated by reference in this Code under clause 7.4

**EMP departure situation** means any situation in which the **system operator** believes on reasonable grounds that complying with the **emergency management policy** will not—

- (a) adequately mitigate an emergency situation; or
- (b) minimise risk to public safety or significant damage to **assets**

Clause 1.1(1) **EMP departure situation**: inserted, on 21 September 2012, by clause 4(4) of the Electricity Industry Participation (Minor Amendments) Code Amendment 2012.

**end date**, for the purposes of subpart 5 of Part 13, means the date of the final **trading period** to which the **risk management contract** applies

**energisation** [*Revoked*]

Clause 1.1(1) **energisation**: inserted, on 29 August 2013, by clause 4(1) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

Clause 1.1(1) **energisation**: substituted, on 29 August 2013, by clause 4(1) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011, Amendment 2013 (No 2).

Clause 1.1(1) **energisation** paragraph (b): revoked, on 1 February 2016, by clause 4(8) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2015.

Clause 1.1(1) **energisation**: revoked, on 5 October 2017, by clause 4(60) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**equivalence arrangement** means an arrangement put in place in accordance with the process set out in clauses 8.29 and 8.30

**equivalent day** means the day of a previous week corresponding to the day for which an **initial estimate** or **final estimate** is required to be made. However, if the day is a **national holiday**, the **equivalent day** will be deemed to be the previous Sunday. If the day for which an **initial estimate** is required to be made is a **business day**, but the corresponding day of the previous week is a **national holiday**, the **equivalent day** is deemed to be the next earlier corresponding day that is not a **national holiday**

**error claimant** means a person who—

- (a) considers that prices contain a **pricing error**; and
- (b) claims, in accordance with subpart 4 of Part 13, that a **pricing error** has occurred

**error compensation** means the application of a predetermined **adjustment** or process to the data within or obtained from, a **metering component** or **metering installation** in order to correct such data for known errors in any **metering component**

Clause 1.1(1) **error compensation**: amended, on 29 August 2013, by clause 4(2)(j) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**estimated reading** means a value, used in the place of a **meter reading**, that is—

- (a) created using an estimation algorithm; and
- (b) not a **validated meter reading**

**event charge** means the amount calculated under clause 8.64

**event date**, in relation to an **ICP**, means the earlier of the following dates:

- (a) the date on which the gaining **trader** commences trading **electricity** at the **ICP** under clauses 1(1), 8(1) or 13(1) of Schedule 11.3:
- (b) the date on which the gaining **trader** otherwise assumes responsibility under clause 11.18(1) for the **ICP**

Clause 1.1(1) **event date**: substituted, on 1 February 2016, by clause 4(1)(d) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2015.

**event log** means an automatically generated record of activity in a **data storage device**, that can be extracted or manually read as part of an **interrogation**

Clause 1.1(1) **event log**: inserted, on 29 August 2013, by clause 4(1) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**event of default** means any event listed in clause 14.41

Clause 1.1(1) **event of default**: amended, on 24 March 2015, by clause 4(1)(i) of the Electricity Industry Participation (Settlement and Prudential Security) Code Amendment 2013.

**exceptional circumstances** means, for the purposes of Part 15, circumstances in which access to the relevant **meter** is not achieved despite the **reconciliation participant's** best endeavours

**excluded Code information** means information—

- (a) that relates to **bids**, **offers**, **reserve offers**, or any **asset capability statement**; or
- (b) that is provided to the **Authority**, any investigator, or the **Rulings Panel** and that is required to be kept confidential under this Code or the **Act**; or
- (c) in relation to which the **Rulings Panel** has prohibited publication or communication

Clause 1.1(1) **excluded Code information** paragraph (a): substituted, on 1 October 2013, by clause 4(2) of the Electricity Industry Participation (Disclosure Obligations) Code Amendment 2013.

**excluded generating station** has the meaning set out in clause 8.21(1)

**existing assets** means transmission **assets** and **non-transmission projects** that have been **commissioned** before, and are in operation at the time of, application of a net benefits tests set out in Part 12. To avoid doubt, an investment in the expansion of generating capacity of an existing **generating unit** is not an **existing asset** or part of an **existing asset**, unless the additional generating capacity associated with the investment has been **commissioned** before, and is in operation at the time of, the application of the relevant net benefits test

Clause 1.1(1) **existing assets**: amended, on 5 October 2017, by clause 4(21) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**expected interruption costs** [*Revoked*]

Clause 1.1(1) **expected interruption costs**: revoked, on 7 August 2014, by clause 4(2) of the Electricity Industry Participation Code Amendment (Extended Reserve) 2014.

**expected near-constraint arc flows** means the scheduled quantity of energy flow on a transmission line or a transformer, if the energy flow is equal to or greater than 95% of the maximum energy flow limit (in **MW**) of the transmission line or transformer as set by the **system operator** in accordance with Schedule 13.3

Clause 1.1(1) **expected near-constraint arc flows**: inserted, on 28 June 2012, by clause 4(a) of the Electricity Industry Participation (Demand-side Bidding and Forecasting) Code Amendment 2011.

**expected near-group-constraint arc flows** means the scheduled quantity of energy flow on a group of transmission **lines** or a group of transformers or a group of transmission **lines** and transformers, calculated according to a group constraint formula covering the group, if the scheduled quantity of energy flow is equal to or above 95% of the maximum energy flow limit (in **MW**) for the group as set by the **system operator** in accordance with Schedule 13.3

Clause 1.1(1) **expected near-group-constraint arc flows**: inserted, on 28 June 2012, by clause 4(a) of the Electricity Industry Participation (Demand-side Bidding and Forecasting) Code Amendment 2011.

Clause 1.1(1) **expected near-group-constraint arc flows**: amended, on 1 February 2016, by clause 4(9) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2015.

**expected unserved energy** means a forecast of the aggregate amount by which the **demand** for **electricity** exceeds the **supply** of **electricity** at each **grid exit point** as a result of likely planned or unplanned outages of **primary transmission equipment**

**extended emergency situation** [*Revoked*]

Clause 1.1(1) **extended emergency situation**: revoked, on 21 September 2012, by clause 4(4) of the Electricity Industry Participation (Minor Amendments) Code Amendment 2012.

**export congestion** means a situation in which a **distribution network** is unable to accept **electricity** exported from **distributed generation** because the injection of an additional unit of **electricity** into the **distribution network** would—

- (a) directly cause a component in the **network** to operate beyond the component's rated maximum capacity; or
- (b) give rise to an unacceptably high level of voltage at the **point of connection** between the **distribution network** and the **distributed generation**

Clause 1.1(1) **export congestion**: inserted, on 23 February 2015, by clause 4(12) of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.

Clause 1.1(1) **export congestion**: amended, on 5 October 2017, by clause 4(22) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**extended reserve** means services provided to restore frequency to the **normal band** after disturbances of a magnitude that make it impracticable or uneconomic to restore frequency using **ancillary services**

Clause 1.1(1) **extended reserve**: inserted, on 7 August 2014, by clause 4(3) of the Electricity Industry Participation Code Amendment (Extended Reserve) 2014.

**extended reserve manager** means the **market operation service provider** that is for the time being appointed as the **extended reserve manager** under this Code, or if no regulations have been made establishing the **extended reserve manager** as a **market operation service provider**, the **Authority**

Clause 1.1(1) **extended reserve manager**: inserted, on 7 August 2014, by clause 4(3) of the Electricity Industry Participation Code Amendment (Extended Reserve) 2014.

Clause 1.1(1) **extended reserve manager**: amended, on 5 October 2017, by clause 4(23) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**extended reserve procurement notice** means the notice given to an **asset owner** by the **extended reserve manager** under clause 8.54L

Clause 1.1(1) **extended reserve procurement notice**: inserted, on 7 August 2014, by clause 4(3) of the Electricity Industry Participation Code Amendment (Extended Reserve) 2014.

**extended reserve procurement schedule** means the schedule **published** by the **extended reserve manager** under clause 8.54J

Clause 1.1(1) **extended reserve procurement schedule**: inserted, on 7 August 2014, by clause 4(3) of the Electricity Industry Participation Code Amendment (Extended Reserve) 2014.

**extended reserve provider** means an **asset owner** required to provide **extended reserve** under Schedule 8.3, **Technical Code B**, clause 7

Clause 1.1(1) **extended reserve provider**: inserted, on 7 August 2014, by clause 4(3) of the Electricity Industry Participation Code Amendment (Extended Reserve) 2014.

**extended reserve schedule** means the schedule **published** by the **system operator** under clause 8.54O

Clause 1.1(1) **extended reserve schedule**: inserted, on 7 August 2014, by clause 4(3) of the Electricity Industry Participation Code Amendment (Extended Reserve) 2014.

**extended reserve selection methodology** means the methodology **published** by the **extended reserve manager** under clause 8.54G

Clause 1.1(1) **extended reserve selection methodology**: inserted, on 7 August 2014, by clause 4(3) of the Electricity Industry Participation Code Amendment (Extended Reserve) 2014.

**extended reserve technical requirements report** means the report **published** by the **system operator** under clause 8.54D

Clause 1.1(1) **extended reserve technical requirements report**: inserted, on 7 August 2014, by clause 4(3) of the Electricity Industry Participation Code Amendment (Extended Reserve) 2014.

**extended reserve technical requirements schedule** means the schedule of requirements **published** by the **system operator** under clause 8.54D

Clause 1.1(1) **extended reserve technical requirements schedule**: inserted, on 7 August 2014, by clause 4(3) of the Electricity Industry Participation Code Amendment (Extended Reserve) 2014.

**fast instantaneous reserve** means—

- (a) for providers of **partly loaded spinning reserve** and **tail water depressed reserve**, the additional capacity (in **MW**) provided 6 seconds after a “Contingent Event” (as defined in the **policy statement**) that is sustained for a period of at least 60 seconds; and
- (b) for providers of **interruptible load**, the drop in load (in **MW**) that occurs within 1 second of the **grid** system frequency falling to or below 49.2 Hertz that is sustained for a period of at least 60 seconds

**final application**, for the purposes of Part 6, means an application made under clause 15 of Schedule 6.1

**final estimate** means the mean of the metering data for each of the previous 4 **equivalent days** for the relevant **trading period** weighted in accordance with the quantity of **electricity** sold in the relevant **trading period** on the **equivalent days** in the relevant **island** as determined in accordance with the following formula:

$$\frac{Eday_4 + Eday_3 + Eday_2 + Eday_1}{4} \times \left\{ \frac{(IslandLoad_0)}{\left( \frac{IslandLoad_4 + IslandLoad_3 + IslandLoad_2 + IslandLoad_1}{4} \right)} \right\}$$

where

$Eday_1$  is the quantity of **electricity** measured at the relevant **metering installation** in kWh for the **trading period** of the **equivalent day 1** week before the **trading day** for which the estimate is required

- Eday<sub>2</sub>* is the quantity of **electricity** measured at the relevant **metering installation** in kWh for the **trading period** of the **equivalent day 2** weeks before the **trading day** for which the estimate is required
- Eday<sub>3</sub>* is the quantity of **electricity** measured at the relevant **metering installation** in kWh for the **trading period** of the **equivalent day 3** weeks before the **trading day** for which the estimate is required
- Eday<sub>4</sub>* is the quantity of **electricity** measured at the relevant **metering installation** in kWh for the **trading period** of the **equivalent day 4** weeks before the **trading day** for which the estimate is required
- Island Load<sub>0</sub>* means the quantity of **electricity**, measured in kWh, for the relevant **trading period** (as measured before the commencement of the calculation of this estimate) supplied in the **island** in which the relevant **metering installation** is located, less any measurement taken at any **metering installation** for which an estimate is being obtained for the same **trading period** and **island**
- Island Load<sub>1</sub>* means the quantity of **electricity**, measured in kWh, for the **trading period** of the **equivalent day 1** week before the **trading day** for which the estimate is required (as measured before the commencement of the calculation of this estimate) supplied in the **island** in which the relevant **metering installation** is located, less any measurement taken at any **metering installation** for which an estimate is being obtained for the same **trading period** and **island**
- Island Load<sub>2</sub>* means the quantity of **electricity**, measured in kWh, for the **trading period** of the **equivalent day 2** weeks before the **trading day** for which the estimate is required (as measured before the commencement of the calculation of this estimate) supplied in the **island** in which the relevant **metering installation** is located, less any measurement taken at any **metering installation** for which an estimate is being obtained for the same **trading period** and **island**
- Island Load<sub>3</sub>* means the quantity of **electricity**, measured in kWh, for the **trading period** of the **equivalent day 3** weeks before the **trading day** for which the estimate is required (as measured before the commencement of the calculation of this estimate) supplied in the **island** in which the relevant **metering installation** is located, less any measurement taken at any **metering installation** for which an estimate is being obtained for the same **trading period** and **island**
- Island Load<sub>4</sub>* means the quantity of **electricity**, measured in kWh, for the **trading period** of the **equivalent day 4** weeks before the **trading day** for which the estimate is required (as measured before the commencement of the calculation of this estimate) supplied in the **island** in which the relevant **metering installation** is located, less any measurement taken at any **metering installation** for which an estimate is being obtained for the same **trading period** and **island**

**final marginal location factor** means the factor that is determined by dividing the **final price** at any **grid exit point** or **grid injection point** by the **final price** at the relevant **reference point**

**final price** means a price in dollars and cents for each **grid injection point**, each **grid exit point** and each **reference point** determined in accordance with the methodology specified by clause 13.135

**final reserve price** means the price calculated in dollars and cents for **fast instantaneous reserve** and **sustained instantaneous reserve** determined in each **island** in accordance with the methodology specified by clause 13.135

**financial year** *[Revoked]*

Clause 1.1(1) **financial year**: revoked, on 5 October 2017, by clause 4(60) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**fittings** *[Revoked]*

Clause 1.1(1) **fittings**: revoked, on 23 February 2015, by clause 4(11) of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.

**fixed-price physical supply contract** means a contract that provides for the physical supply of **electricity**, if—

- (a) the **buyer** is reasonably expected to purchase 1 **MW** or more of **electricity** on average during the **term** of the contract (for the purposes of determining whether a contract meets this 1 **MW** threshold, the total purchases under the contract should be used despite clause 13.219(6)); and
- (b) the contract allows the **buyer** to purchase either—
  - (i) variable amounts of **electricity** linked to actual consumption of **electricity** at a fixed price or prices; or
  - (ii) a fixed amount of **electricity** at a fixed price or prices; and
- (c) excludes a contract for the physical supply of **electricity**, that is generated by an **embedded generating station**, directly to a **consumer**

**floating-price payer** means the **party** obliged to make 1 or more payments, from time to time during the **term** of a **contract for differences**, of a floating amount for a **quantity** of **electricity**

**force majeure clause**, for the purposes of subpart 5 of Part 13, means a clause in a **risk management contract** under which some or all obligations may be suspended and/or the **risk management contract** may terminate due to 1 or more events (not being events specified in a **suspension clause**) beyond the control of the **party** and that could not reasonably have been foreseen, including—

- (a) any event or circumstance occasioned by, or in consequence of, any act of God (being an event or circumstance—
  - (i) due to natural causes, directly or indirectly and exclusively without human intervention; and
  - (ii) that could not reasonably have been foreseen or if foreseen, could not reasonably have been resisted); or
- (b) strikes, lockouts, other industrial disturbances, acts of public enemy, wars, blockades, insurrections, riots, epidemics, or civil disturbances; or

- (c) the binding order of any court, government or a local authority beyond the control of the **party**

**force majeure event**, for the purposes of Parts 3 and 4,—

- (a) means an event or circumstance beyond the reasonable control of a **market operation service provider** or **ancillary service agent** that results in, or causes, the **market operation service provider** or **ancillary service agent** to be unable to perform any of its obligations under this Code or the Electricity Industry (Enforcement) Regulations 2010; and
- (b) includes (without limitation)—
- (i) fire, flood, storm, earthquake, landslide, volcanic eruption, or other act of God; and
  - (ii) explosion or nuclear, biological, or chemical contamination; and
  - (iii) sabotage, terrorism, or act of war (whether declared or not); and
- (c) includes an act or omission by a party to an agreement with a **market operation service provider** (not being the **Authority**) or an **ancillary service agent** only if—
- (i) the act or omission is a breach of an obligation under the agreement; and
  - (ii) the obligation is in all material respects the same as an obligation in the **market operation service provider agreement**, or the **ancillary service agent's agreement** with the **system operator**; and
  - (iii) the act or omission would have been a **force majeure event** if it had been an act or omission of the **market operation service provider** or **ancillary service agent** and not an act or omission of the party; and
- (d) does not include that a **market operation service provider**, **ancillary service agent**, or other person—
- (i) is unable or unwilling to pay any amount necessary to meet the obligations under this Code or the Electricity Industry (Enforcement) Regulations 2010; or
  - (ii) is unable to pay its debts; or
  - (iii) calls a meeting for the purpose of Part 14 of the Companies Act 1993; or
  - (iv) is adjudicated bankrupt; or
  - (v) in the case of a company, society, or partnership, has a receiver or statutory manager or similar person appointed in respect of it or of all or any of its assets; or
  - (vi) is put into liquidation; and
- (e) does not include an event that could have been prevented by the **market operation service provider** or **ancillary service agent** by the exercise of a reasonable standard of care

Clause 1.1(1) **force majeure event**: substituted, on 1 November 2012, by clause 4 of the Electricity Industry Participation (Force Majeure) Code Amendment 2012.

**forecast marginal location factor** means the factor that is determined by dividing the **forecast price** at any **grid exit point** or **grid injection point** by the **forecast price** at the relevant **reference point**

**forecast prices** means the prices for **electricity** at all **grid exit points, grid injection points, and reference points** scheduled in the **price-responsive schedule** or the **non-response schedule** (whichever is the case) in dollars and cents

Clause 1.1(1) **forecast prices**: substituted, on 28 June 2012, by clause 4(e) of the Electricity Industry Participation (Demand-side Bidding and Forecasting) Code Amendment 2011.

**forecast reserve prices** means the prices for **fast instantaneous and sustained instantaneous reserve** for each **island** scheduled in the **price-responsive schedule** or the **non-response schedule** (whichever is relevant) in dollars and cents

Clause 1.1(1) **forecast reserve prices**: substituted, on 28 June 2012, by clause 4(f) of the Electricity Industry Participation (Demand-side Bidding and Forecasting) Code Amendment 2011.

**formal notice** means a notice issued by the **system operator** in accordance with clause 5 of **Technical Code B** of Schedule 8.3

Clause 1.1(1) **formal notice**: amended, on 1 June 2013, by clause 4(b) of the Electricity Industry Participation (Scarcity Pricing) Code Amendment 2011.

**forward estimate** means, in relation to non **half hour** metered **ICPs**, any **volume information** (in kWh) submitted for a part or full **consumption period** that is not an **historical estimate**

**frequency fluctuation** means a deviation in frequency outside the **normal band**

Clause 1.1(1) **frequency fluctuation**: inserted, on 19 May 2016, by clause 4(2) of the Electricity Industry Participation Code Amendment (System Operator and Alignment with Statutory Objective) 2016.

**frequency keeping** means an **ancillary service** that maintains the system frequency within the **normal band**

**frequency keeping unit** means any equipment that provides **frequency keeping services**

Clause 1.1(1) **frequency keeping unit**: inserted, on 3 October 2013, by clause 4 of the Electricity Industry Participation (Technology Neutral Language in Frequency Keeping) Code Amendment 2013.

**frequency time error** *[Revoked]*

Clause 1.1(1) **frequency time error**: revoked, on 19 May 2016, by clause 4(1) of the Electricity Industry Participation Code Amendment (System Operator and Alignment with Statutory Objective) 2016.

**FTR** means a financial transmission right created under subpart 6 of Part 13

Clause 1.1(1) **FTR**: inserted, on 1 October 2011, by clause 4(1) of the Electricity Industry Participation (Financial Transmission Rights) Code Amendment 2011.

**FTR account** *[Revoked]*

Clause 1.1(1) **FTR account**: inserted, on 1 October 2011, by clause 4(1) of the Electricity Industry Participation (Financial Transmission Rights) Code Amendment 2011.

Clause 1.1(1) **FTR account**: revoked, on 24 March 2015, by clause 4(1)(j) of the Electricity Industry Participation (Settlement and Prudential Security) Code Amendment 2013.

**FTR acquisition cost** means—

- (a) the amount a **participant** owes or is owed in respect of the acquisition of an **FTR** in an **FTR auction**; or
- (b) if an **FTR** has been assigned by the first holder of the **FTR**, the amount that becomes owing under clause 13.249(3); or
- (c) an amount described in paragraph (a) or (b) that is adjusted under clause 13.242A

Clause 1.1(1) **FTR payment**: inserted, on 1 October 2011, by clause 4(1) of the Electricity Industry Participation (Financial Transmission Rights) Code Amendment 2011.

Clause 1.1(1) **FTR payment**: amended to **FTR acquisition cost**, on 1 November 2012, by clause 4(2) of the Electricity Industry Participation (Financial Transmission Rights) Code Amendment 2012.



Clause 1.1(1) **FTR acquisition cost**: amended, on 1 November 2014, by clause 4(2) of the Electricity Industry Participation (FTR Reconfiguration Auctions) Code Amendment 2014.

Clause 1.1(1) **FTR acquisition cost**: amended, on 24 March 2015, by clause 4(1)(l) of the Electricity Industry Participation (Settlement and Prudential Security) Code Amendment 2013.

**FTR allocation plan** means the FTR allocation plan prepared and **published** by the **FTR manager** under clause 13.238

Clause 1.1(1) **FTR allocation plan**: inserted, on 1 October 2011, by clause 4(1) of the Electricity Industry Participation (Financial Transmission Rights) Code Amendment 2011.

**FTR auction** means an auction conducted by the **FTR manager** in accordance with the **FTR allocation plan** approved under subpart 6 of Part 13

Clause 1.1(1) **FTR auction**: inserted, on 1 October 2011, by clause 4(1) of the Electricity Industry Participation (Financial Transmission Rights) Code Amendment 2011.

**FTR hedge value** means the gross amount that becomes due and owing by the **clearing manager** or the holder of an **FTR** on the settlement of the **FTR** in accordance with the terms of the **FTR** (excluding the **FTR acquisition cost** and any amount owing under clause 13.249(4) or (7))

Clause 1.1(1) **FTR hedge value**: inserted, on 1 November 2012, by clause 4(1) of the Electricity Industry Participation (Financial Transmission Rights) Code Amendment 2012.

Clause 1.1(1) **FTR hedge value**: amended, on 24 March 2015, by clause 4(1)(k) of the Electricity Industry Participation (Settlement and Prudential Security) Code Amendment 2013.

**FTR manager** means the **market operation service provider** who is for the time being appointed as the FTR manager under this Code

Clause 1.1(1) **FTR manager**: inserted, on 1 October 2011, by clause 4(1) of the Electricity Industry Participation (Financial Transmission Rights) Code Amendment 2011.

Clause 1.1(1) **FTR payment**: inserted, on 1 October 2011, by clause 4(1) of the Electricity Industry Participation (Financial Transmission Rights) Code Amendment 2011.

Clause 1.1(1) **FTR payment**: amended to **FTR acquisition cost**, on 1 November 2012, by clause 4(2) of the Electricity Industry Participation (Financial Transmission Rights) Code Amendment 2012.

Clause 1.1(1) **FTR manager**: amended, on 5 October 2017, by clause 4(24) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**FTR period** means a period for which an **FTR** applies

Clause 1.1(1) **FTR period**: inserted, on 1 October 2011, by clause 4(1) of the Electricity Industry Participation (Financial Transmission Rights) Code Amendment 2011.

**FTR reconfiguration amount** means the amount a **participant** that sells a **reconfigured FTR**—

(a) is entitled to be paid for the **reconfigured FTR**, if the amount is positive; or

(b) is liable to pay in respect of the **reconfigured FTR**, if the amount is negative

Clause 1.1(1) **FTR reconfiguration amount**: inserted, on 1 November 2014, by clause 4(1) of the Electricity Industry Participation (FTR Reconfiguration Auctions) Code Amendment 2014.

**FTR reconfiguration auction** means an **FTR auction** that allows a holder of an **FTR** to offer for sale a portion of the **FTR** expressed in terms of all or a specified amount of the **electricity** (in **MW**) to which the **FTR** relates

Clause 1.1(1) **FTR reconfiguration auction**: inserted, on 1 November 2014, by clause 4(1) of the Electricity Industry Participation (FTR Reconfiguration Auctions) Code Amendment 2014.

**FTR register** means the register created and operated by the **FTR manager** under clause 13.247

Clause 1.1(1) **FTR register**: inserted, on 1 October 2011, by clause 4(1) of the Electricity Industry Participation (Financial Transmission Rights) Code Amendment 2011.

**fully calibrated certification** means certification of a metering installation under clause 13(3) of Schedule 10.7

Clause 1.1(1) **fully calibrated certification**: inserted, on 29 August 2013, by clause 4(1) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**fully certified metering installation** means a certified metering installation other than an interim certified metering installation

Clause 1.1(1) **fully certified metering installation**: inserted, on 29 August 2013, by clause 4(1) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**gaining metering equipment provider** means, for the purposes of Parts 10 and 11,—

- (a) the person who a **trader** records in the **registry** as the **metering equipment provider** for each **metering installation** for a **point of connection**; or
- (b) the person with whom the **participant** responsible for ensuring there is a **metering installation** for a **point of connection** enters into an arrangement to become the **metering equipment provider** for each **metering installation** for the **point of connection**

Clause 1.1(1) **gaining metering equipment provider**: inserted, on 29 August 2013, by clause 4(1) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

Clause 1.1(1) **gaining metering equipment provider**: amended, on 5 October 2017, by clause 4(25) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**gate closure period**, in relation to a **trading period** for which a **generator** or **ancillary service agent** has submitted an **offer** or **reserve offer**, or for which a **dispatchable load purchaser** has submitted a **nominated dispatch bid**, means—

- (a) the **trading period** immediately preceding the **trading period** to which the **offer** or **reserve offer** relates, for—
  - (i) an **embedded generator**;
  - (ii) an **intermittent generator**;
  - (iii) an **ancillary service agent** that is also an **embedded generator**; and
- (b) the 2 **trading periods** immediately preceding the **trading period** to which the **offer**, **reserve offer**, or **nominated dispatch bid** relates, for—
  - (i) any other **generator**;
  - (ii) any other **ancillary service agent**;
  - (iii) a **dispatchable load purchaser**

Clause 1.1(1) **gate closure period**: inserted, on 29 June 2017, by clause 4(3) of the Electricity Industry Participation Code Amendment (Shortened Gate Closure and Revised Bid and Offer Provisions) 2017.

**generally available retail tariff plan**—

- (a) means a retail tariff plan that a **retailer** will make available to any **consumer** (subject to credit requirements) if the **consumer** satisfies the requirements specified for the retail tariff plan relating to:
  - (i) physical location;
  - (ii) **metering** configuration;
  - (iii) **price category** code; but
- (b) does not include a retail tariff plan made available by a **retailer** only under an agreement reached as a result of the **retailer** directly contacting a **consumer** to offer a retail tariff plan that provides the **consumer** with a financial discount or

other benefit when compared with any other of the **retailer's** tariff plans to which paragraph (a) applies that are available to that **consumer**

Clause 1.1(1) **generally available retail tariff plan**: inserted, on 1 February 2016, by clause 4 of the Electricity Industry Participation Code Amendment (Access to Retail Tariff Information) 2015.

**generating plant** means equipment collectively used for generating **electricity**

**generating station** means 1 or more **generating units** that are directly connected to the **grid** or to a **local network** and that inject into the **grid** or a **local network** (as the case may be) at a single point of **injection**

Clause 1.1(1) **generating station**: amended, on 23 February 2015, by clause 75 of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.

Clause 1.1(1) **generating station**: amended, on 5 October 2017, by clause 4(26) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**generating unit** means a machine that generates **electricity**

**generating unit gross** means the output of a **generating unit** measured or calculated at its output terminals, inclusive of any **generating unit load** supplied

Clause 1.1(1) **generating unit gross**: inserted, on 1 June 2011, by clause 4(1) of the Electricity Industry Participation (Minor Amendments) Code Amendment 2011.

**generating unit load** means the active and **reactive power** supplied or injected via connections between the **generating unit's** output terminals and its **generating unit circuit breaker**

Clause 1.1(1) **generating unit load**: inserted, on 1 June 2011, by clause 4(1) of the Electricity Industry Participation (Minor Amendments) Code Amendment 2011.

Clause 1.1(1) **generating unit load**: amended, on 23 February 2015, by clause 75 of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.

Clause 1.1(1) **generating unit load**: amended, on 5 October 2017, by clause 4(27) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**generating unit net** means the output of a **generating unit** measured or calculated at its **point of connection**, but does not include **generating unit load** or any other active or **reactive power** supplied (including losses) between the **generating unit** and the **point of connection**

Clause 1.1(1) **generating unit net**: inserted, on 1 June 2011, by clause 4(1) of the Electricity Industry Participation (Minor Amendments) Code Amendment 2011.

**generator** means a person who owns **generating units** connected to a **network**, or any person who acts, in respect of Parts 13, 14 and 15, on behalf of any person who owns such **generating units**, and includes **embedded generators**, **intermittent generators**, **type A co-generators**, and **type B co-generators**

Clause 1.1(1) **generator**: amended, on 23 February 2015, by clause 75 of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.

Clause 1.1(1) **generator**: amended, on 27 May 2015, by clause 4(2) of the Electricity Industry Participation Code Amendment (Industrial Co-generation Dispatch Arrangements) 2015.

Clause 1.1(1) **generator**: amended, on 5 October 2017, by clause 4(28) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**good electricity industry practice** in relation to transmission, means the exercise of that degree of skill, diligence, prudence, foresight and economic management, as determined by reference to good international practice, which would reasonably be expected from a skilled and experienced **asset** owner engaged in the management of a transmission network under conditions comparable to those applicable to the **grid** consistent with applicable law, safety and environmental protection. The determination

is to take into account factors such as the relative size, duty, age and technological status of the relevant transmission network and the applicable law

**grid** means the system of transmission **lines**, substations and other works, including the **HVDC link** used to connect **grid injection points** and **grid exit points** to convey **electricity** throughout the North Island and the South Island of New Zealand

Clause 1.1(1) **grid**: amended, on 23 February 2015, by clause 75 of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.

Clause 1.1(1) **grid**: amended, on 1 February 2016, by clause 4(10) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2015.

Clause 1.1(1) **grid**: amended, on 5 October 2017, by clause 4(29) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**grid economic investment report** means the report prepared under clause 12.115, either as part of **Transpower's** annual planning report or in some other form, if the **Authority** so determines

**grid emergency** means a situation where—

- (a) in the reasonable opinion of the **system operator**, 1 or more of the events set out in clause 5(1) of **Technical Code B** of Schedule 8.3 has occurred, or is reasonably expected to occur and urgent action is required of the **system operator** or **participants** to alleviate the situation; or
- (b) independent action (as set out in clause 9 of **Technical Code B** of Schedule 8.3) is required of a **participant** to alleviate the situation

**grid exit point** and **GXP** mean any **point of connection** on the **grid**—

- (a) at which **electricity** predominantly flows out of the **grid**; or
- (b) determined as being such by the **Authority** following an application in accordance with clause 13.28,—

and such **point of connection** may, at any given time, be a **grid exit point** or a **grid injection point**, but may not be both at the same time

**grid injection point** and **GIP** mean any **point of connection** on the **grid** at which **electricity** predominantly flows into the **grid**. A **point of connection** may, at any given time, be a **grid injection point** or a **grid exit point**, but may not be both at the same time

**grid interface** means the **assets** used to make a connection to the **grid** (as the case may be), including associated protection, control and communication systems. The term includes the interface between **assets** forming part of the **grid**

Clause 1.1(1) **grid interface**: amended, on 23 February 2015, by clause 75 of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.

Clause 1.1(1) **grid interface**: amended, on 5 October 2017, by clause 4(30) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**grid owner** means a person who owns or operates any part of the **grid**

**grid reliability report** means a report on grid reliability **published** by **Transpower** under clause 12.76(1)

**grid reliability standards** means standards for reliability of the **grid** developed in accordance with clauses 12.55 to 12.58, 12.61 and 12.62

**grid zone area** means a geographical area, which includes many **nodes**, as determined by the **Authority** and **published** under clause 13.221(1)

**group constraint formula** means the mathematical formula applied by the **system operator**, in accordance with Schedule 13.3, to constrain the energy flows on a group of transmission **lines**, transformers or both

Clause 1.1(1) **group constraint formula**: amended, on 1 February 2016, by clause 4(11) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2015.

**GST** means goods and services tax payable under the Goods and Services Tax Act 1985

**half hour** means a thirty minute period ending on any hour or half hour, and **half hourly** has a corresponding meaning

**half-hour metering** means the process of measuring and recording information—

- (a) relating to **electricity** conveyed; and
- (b) during—
  - (i) an interval that is a **trading period**; or
  - (ii) intervals that can be aggregated to 1 **trading period**

Clause 1.1(1) **half-hour metering**: substituted, on 29 August 2013, by clause 4(2)(k) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**half-hour metering information**—

- (a) means information describing the quantity of **electricity** conveyed in each **trading period** that is—
  - (i) recorded directly by a **metering installation**; or
  - (ii) calculated or estimated using information recorded directly by a **metering installation**; and
- (b) in respect of a **generator** that is selling **electricity** to the **clearing manager** and other persons at the same **grid injection point** in the same **trading period**, includes the file recording the quantity of **electricity** sold to the **clearing manager** during each such **trading period** constructed in accordance with **dispatch instructions** issued by the **system operator** under this Code.

Clause 1.1(1) **half-hour metering information**: substituted, on 19 December 2014, by clause 4(2) of the Electricity Industry Participation Code Amendment (Minor Code Amendments) (No 3) 2014.

**half-hour metering installation** means a **metering installation** used for **half-hour metering**

Clause 1.1(1) **half-hour metering installation**: amended, on 29 August 2013, by clause 4(2)(l) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**hedge settlement agreement** means an agreement in a form set out in Schedule 14.4 between **participants** that provides for settlement by the **clearing manager** of payments for differences in respect of the price of **electricity**

Clause 1.1(1) **hedge settlement agreement**: amended, on 24 March 2015, by clause 4(1)(m) of the Electricity Industry Participation (Settlement and Prudential Security) Code Amendment 2013.

**high spring washer price relaxation factor** means, in relation to a **high spring washer price situation** in a **trading period**, 1MW

Clause 1.1(1) **high spring washer price relaxation factor**: amended, on 21 September 2012, by clause 4(1) of the Electricity Industry Participation (High Spring Washer Price Situation) Code Amendment 2012.

**high spring washer price situation** means a situation in a **trading period** in which—

- (a) 1 or more **transmission security constraints** bind; and
- (b) the **software** used by the **pricing manager** to calculate provisional prices, interim prices, and final prices (or used by the **system operator** to determine, under clause 13.134(4), whether a **high spring washer price situation** still exists) calculates a price for electricity at any **grid injection point** or **grid exit point**, excluding **grid injection points** and **grid exit points** that are **electrically disconnected**, that is equal to or greater than the product of the **high spring washer price trigger ratio** and the highest unconstrained cleared offer price in that **trading period**

Clause 1.1(1) **high spring washer price situation**: amended, on 21 September 2012, by clause 4(2) of the Electricity Industry Participation (High Spring Washer Price Situation) Code Amendment 2012.

Clause 1.1(1) **high spring washer price situation**: amended, on 5 October 2017, by clause 4(31) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**high spring washer price situation methodology** means the methodology described in clauses 13.134(2) and 13.134(4)

Clause 1.1(1) **high spring washer price situation methodology**: amended, on 21 September 2012, by clause 4(3) of the Electricity Industry Participation (High Spring Washer Price Situation) Code Amendment 2012.

**high spring washer price trigger ratio** means the ratio in clause 13.133

**high voltage terminal** means the point at which the higher voltage side of a **grid owner's** transformer connects to the **grid**

Clause 1.1(1) **high voltage terminal**: amended, on 23 February 2015, by clause 75 of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.

Clause 1.1(1) **high voltage terminal**: amended, on 5 October 2017, by clause 4(32) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**historical annual consumption** means the annual consumption of a **grid exit point** or **grid injection point** for the 12-month period ended 3 months preceding publication of the **annual consumption list**

**historical estimate** means, in relation to non **half hour** metered **ICPs**, **volume information** (in kWh), apportioned to part or full **consumption periods** after having the **seasonal adjustment shape**, or any other **profile** that has, from time to time, been approved by the **Authority** for this purpose, applied, being 1 of the following:

- (a) the difference between 2 **validated** actual **meter readings**;
- (b) the difference between 2 **permanent estimates**;
- (c) any relevant **unmetered load**

**hub** means a **node** or group of **nodes** (and in the case of a group of **nodes**, **nodes** in the group may be given different weightings) identified as either hub A or hub B in an **FTR**

Clause 1.1(1) **hub**: inserted, on 1 October 2011, by clause 4(1) of the Electricity Industry Participation (Financial Transmission Rights) Code Amendment 2011.

**HV**, for the purposes of subparts 2, 6 and 7 of Part 12, means high voltage

**HVDC component flows** means the quantity of energy flow on each component of the **HVDC link** as calculated by the modelling system in accordance with the model formulation set out in the **system operator's market operation service provider agreement** (as amended from time to time)

**HVDC injection point** means the point at which **electricity** is injected into the North Island or the South Island from the **HVDC link**

**HVDC link** means the converter stations at Benmore in the South Island and Haywards in the North Island and the high voltage transmission **lines** and undersea cables linking them (and including all associated equipment)

Clause 1.1(1) **HVDC link**: amended, on 1 February 2016, by clause 4(12) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2015.

**HVDC owner** means the **grid owner** who owns and/or operates the **HVDC link**

**HVDC risk offsets** means the values by which HVDC flows are adjusted by the **system operator** to determine the relevant reserve risk on the **HVDC link**

**ICP** means an installation control point being 1 of the following:

- (a) a **point of connection** at which the **electrical installation** for a **retailer's** customer is connected to a **network** other than the **grid**;
- (b) a **point of connection** between a **network** and an **embedded network**;
- (c) a **point of connection** between a **network** and **shared unmetered load**

Clause 1.1(1) **ICP**: amended, on 23 February 2015, by clause 75 of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.

Clause 1.1(1) **ICP**: amended, on 5 October 2017, by clause 4(33) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

Clause 1.1(1) **ICP**: amended, on 1 November 2018, by clause 4(5) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2018.

**ICP day** means any day when an **ICP** with the **installation type** L or B is recorded on the **registry** as having the status of Active

Clause 1.1(1) **ICP day**: amended, on 5 October 2017, by clause 4(34) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**ICP identifier** means a unique identifier for an **ICP** created by a **distributor** in accordance with clause 1 of Schedule 11.1

**identification costs** means any reasonable identification and testing costs incurred by the **system operator** in accordance with clause 8.3 that are unable to be recovered from **participants** by the **system operator**

**incremental costs**, for the purpose of Part 6, means the reasonable costs that an efficient **distributor** would incur in providing **electricity** distribution services with connection services to **distributed generation**, less the costs that the efficient **distributor** would incur if it did not provide those connection services

Clause 1.1(1) **incremental costs**: inserted, on 23 February 2015, by clause 4(12) of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.

Clause 1.1(1) **incremental costs**: amended, on 5 October 2017, by clause 4(35) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**industrial co-generating station** means a **generating station** that —

- (a) *[Revoked]*
- (b) is reliant on a co-located **industrial process** because—
  - (i) it derives its fuel source from that co-located **industrial process**; or
  - (ii) it provides some or all of the **electricity** that it generates to that co-located **industrial process**; or
  - (iii) it provides some or all of any by-product of generating **electricity** to that co-

located **industrial process**; and

(c) is tightly coupled to an **industrial process**; and

(d) has been approved by the **Authority** under clause 8(1)(a) of Schedule 13.4

Clause 1.1(1) **industrial co-generating station**: amended, on 23 February 2015, by clause 75 of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.

Clause 1.1(1) **industrial co-generating station**: amended, on 27 May 2015, by clause 4(3)(a) of the Electricity Industry Participation Code Amendment (Industrial Co-generation Dispatch Arrangements) 2015.

Clause 1.1(1) **industrial co-generating station** paragraph (a): revoked, on 27 May 2015, by clause 4(3)(b) of the Electricity Industry Participation Code Amendment (Industrial Co-generation Dispatch Arrangements) 2015.

Clause 1.1(1) **industrial co-generating station** paragraph (b): amended, on 27 May 2015, by clause 4(3)(c) of the Electricity Industry Participation Code Amendment (Industrial Co-generation Dispatch Arrangements) 2015.

Clause 1.1(1) **industrial co-generating station** paragraph (c): amended, on 27 May 2015, by clause 4(3)(d) of the Electricity Industry Participation Code Amendment (Industrial Co-generation Dispatch Arrangements) 2015.

Clause 1.1(1) **industrial co-generating station** paragraph (d): amended, on 27 May 2015, by clause 4(3)(e) of the Electricity Industry Participation Code Amendment (Industrial Co-generation Dispatch Arrangements) 2015.

**industrial process** means a process that has a primary purpose of producing an output other than **electricity**

**infeasibility situation** means a situation where the **software** used to determine **final prices** and **final reserve prices** calculates a model variable with a value (either positive or negative) as set out in the list given to the **pricing manager** under Schedule 13.2

**information system** *[Revoked]*

Clause 1.1(1) **information system**: revoked, on 5 October 2017, by clause 4(60) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**inherent characteristics** means the permanent and fundamental characteristics of an **asset** that are outside the reasonable control of the **asset owner** and affect the output or response of that **asset** and includes the effects of water temperature, ambient air temperature and performance during ramping on **asset** performance

**initial application**, for the purposes of Part 6, means an application under clause 11 of Schedule 6.1

**initial estimate** means an estimate of **metering information** to be made by giving the **metering information** of all **participants** of the **equivalent day** of the previous week

**injection** means the flow of **electricity** into a **network**

**input connection contract** means the fixed term input connection and input connection assets contracts between **Transpower** and each of the following: Tuaropaki Power Company Limited, Carter Holt Harvey Limited, Contact Energy Limited, Empower Limited, and Mighty River Power Limited

Clause 1.1(1) **input connection contract**: amended, on 23 February 2015, by clause 75 of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.

Clause 1.1(1) **input connection contract**: amended, on 5 October 2017, by clause 4(36) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**input information** means information given to the **pricing manager** in accordance with clause 13.141

**installation type** means a category based on whether an **ICP** consumes **electricity**, generates **electricity**, or both consumes and generates **electricity**



**instantaneous reserve** means an **ancillary service** comprising 1 or more of the following:

- (a) **interruptible load**;
- (b) **partly loaded spinning reserve**;
- (c) **tail water depressed reserve**

**interconnecting transformer** means a transformer (other than a transformer that is required to supply **demand to distributors** or **direct consumers**) that allows for the transfer of power within the grid between any of the following voltage levels:

- (a) 220kV;
- (b) 110kV;
- (c) 66kV;
- (d) 50kV

**interconnection asset**, for the purposes of subparts 2, 6 and 7 of Part 12—

- (a) has the meaning set out in the **transmission pricing methodology**; and
- (b) includes the **HVDC link**

**interconnection branch** means an **interconnection circuit branch**, and an **interconnection transformer branch**

**interconnection circuit branch** means a **circuit branch** that comprises or includes **interconnection assets**

**interconnection point** means a **point of connection** between—

- (a) a **local network** and any other **local network**; or
- (b) an **embedded network** that is not a gateway **NSP** and a **local network**; or
- (c) an **embedded network** that is not a gateway **NSP** and any other **embedded network**

Clause 1.1(1) **interconnection point**: substituted, on 29 August 2013, by clause 4(2)(m) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**interconnection transformer branch** means a **transformer branch** comprising **interconnection assets**

**interim certified metering installation** means a **metering installation** referred to in clause 10.51(3)(a)(i)

Clause 1.1(1) **interim certified metering installation**: inserted, on 29 August 2013, by clause 4(1) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**interim marginal location factor** means the factor that is determined by dividing the **interim price** at any **grid exit point** or **grid injection point** by the **interim price** at the relevant **reference point**

**interim price** means a price in dollars and cents for each **grid injection point** and each **grid exit point**, determined in accordance with the methodology specified in clause 13.135

**interim reserve price** means a price in dollars and cents for **fast instantaneous reserve** and **sustained instantaneous reserve**, determined in each **island** in accordance with methodology specified in clause 13.135

Clause 1.1(1) **interim reserve price**: amended, on 5 October 2017, by clause 4(37) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**intermittent generating station** means a **wind generating station**

**intermittent generator** means the owner of an **intermittent generating station**. To avoid doubt, clauses referring to an **intermittent generator** apply only to the **intermittent generating stations** owned by the **intermittent generator**

**interrogation** means the extraction or manual reading of stored data from a **metering installation** and **interrogated** and **interrogating** have corresponding meanings

Clause 1.1(1) **interrogation**: amended, on 29 August 2013, by clause 4(2)(n) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**interruptible load** means a form of **instantaneous reserve** comprised of energy being consumed that is able to be **electrically disconnected** to balance the **injection supply** and the **offtake** of **electricity** following a drop in system frequency to a specified level below 50 Hz

Clause 1.1(1) **interruptible load**: amended, on 5 October 2017, by clause 4(38) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**interruptible load group GXP** means the **grid exit point**, as approved by the **system operator** (such approval not to be unreasonably withheld), at which a **reserve offer** for **interruptible load** comprises the aggregate quantity of **interruptible load** available at a number of specified **grid exit points** for the purposes of **offer** and **dispatch**

**interruption**, for the purposes of Part 12, means an interruption in the conveyance of **electricity** between **assets** owned or operated by a **designated transmission customer** and the **grid assets** owned by **Transpower** at a **point of connection**, other than an interruption by reason of **Transpower** being directed to **electrically disconnect** a **point of connection** by the **Authority** or the **Rulings Panel** under the **Act** or this Code or by any other person authorised to do so by this Code

Clause 1.1(1) **interruption**: amended, on 5 October 2017, by clause 4(39) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**investment contracts** means contracts for investments that are agreed between **Transpower** and a **designated transmission customer**

**island** means the South Island or the North Island of New Zealand (as the case may be)

**island GWAP** means the generation weighted average price for an **island** for a **trading period** calculated in accordance with clause 1(2) of Schedule 13.3A

Clause 1.1(1) **island GWAP**: inserted, on 1 June 2013, by clause 4(a) of the Electricity Industry Participation (Scarcity Pricing) Code Amendment 2011.

**island scarcity pricing situation** means a situation determined to be an island scarcity pricing situation by the **pricing manager** under clause 13.135A(3)

Clause 1.1(1) **island scarcity pricing situation**: inserted, on 1 June 2013, by clause 4(a) of the Electricity Industry Participation (Scarcity Pricing) Code Amendment 2011.

**island shortage situation** means a situation specified in a notice to be an **island wide** shortage by the **system operator** under clause 5(1A) of **Technical Code B** of Schedule 8.3

**island shortage situation**: inserted, on 1 June 2013, by clause 4(a) of the Electricity Industry Participation (Scarcity Pricing) Code Amendment 2011.

**line function services** has the meaning given to it by section 5 of the Act

Clause 1.1(1) **line function services**: substituted, on 1 February 2016, by clause 4(1)(e) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2015.

**line owner**, for the purposes of the definition of **specified participant**, means a person who owns **works** that are used or intended to be used for the conveyance of **electricity**

Clause 1.1(1) **line owner**: amended, on 21 September 2012, by clause 4(5) of the Electricity Industry Participation (Minor Amendments) Code Amendment 2012.

**lines** has the meaning given to it by section 5 of the Act

Clause 1.1(1) **lines**: amended, on 23 February 2015, by clause 4(9) of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.

Clause 1.1(1) **lines**: substituted, on 1 February 2016, by clause 4(1)(f) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2015.

**livening** [*Revoked*]

Clause 1.1(1) **livening**: inserted, on 29 August 2013, by clause 4(1) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

Clause 1.1(1) **livening**: revoked, on 29 August 2013, by clause 4(2) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011, Amendment 2013 (No 2).

**local authority**, for the purposes of Part 6, means a territorial authority within the meaning of the Local Government Act 2002

**local losses** means **losses** applying to the conveyance of **electricity** over a **local network** or an **embedded network**

**local network** means the **lines**, equipment and plant that are used to convey **electricity** between the **grid** and 1 of the following:

- (a) an **embedded generator**;
- (b) an **embedded network**;
- (c) an **ICP**

Clause 1.1(1) **local network**: amended, on 1 February 2016, by clause 4(13) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2015.

**location factor**, for the purposes of subpart 5 of Part 13, means the location factor calculated in accordance with clause 13.221(2)

**losing metering equipment provider** means, for the purposes of Parts 10 and 11, the existing **metering equipment provider** responsible for each **metering installation** for a **point of connection** at which there is a **gaining metering equipment provider**

Clause 1.1(1) **losing metering equipment provider**: inserted, on 29 August 2013, by clause 4(1) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**loss adjusted demand** means the total demand determined by taking all actual demand **half-hour metering information** given to the **pricing manager** under clause 13.138 and multiplying the total by 1.05

**loss and constraint excess** means the difference between **purchaser** and **generator** payments as defined in clause 14.16

Clause 1.1(1) **loss and constraint excess**: amended, on 24 March 2015, by clause 4(1)(n) of the Electricity Industry Participation (Settlement and Prudential Security) Code Amendment 2013.

**loss category** means the relevant code in the schedule **published** by the **registry manager** that identifies the relevant **loss factors** that apply to **submission information** or **dispatchable load information**

Clause 1.1(1) **loss category**: amended, on 15 May 2014, by clause 5(3) of the Electricity Industry Participation (Modified Dispatchable Demand) Code Amendment 2013.

Clause 1.1(1) **loss category**: amended, on 5 October 2017, by clause 4(40) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**loss compensation** means the application of a predetermined **adjustment** or process to the data within, or obtained from, a **metering component** or **metering installation** in order to correct such data for known **losses** in primary plant (such as power transformers and cables)

Clause 1.1(1) **loss compensation**: amended, on 29 August 2013, by clause 4(2)(o) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**losses** means the difference between the delivered **electricity** at a **point of connection** and the **electricity** required to be injected into an other **point of connection** in order to supply the delivered **electricity**

**loss factor** means the factor, identified by reference to a **loss category** within the **registry**, to be applied to **submission information** or **dispatchable load information** to obtain adjusted for **losses** information at the relevant **NSP**, which factor is—

- (a) as set out in the report to be provided by the **registry** in accordance with clause 11.26(b); or
- (b) if a report has not been provided by the **registry**, as directed by the **Authority** under clause 15.20B(3) or 15(1) of Schedule 15.4

Clause 1.1(1) **loss factor**: amended, on 15 May 2014, by clause 5(4) of the Electricity Industry Participation (Modified Dispatchable Demand) Code Amendment 2013.

**loss of communication** means a sustained disruption of communications between the **system operator** and 1 or more **generators**, **ancillary service agents**, **extended reserve providers**, or **dispatchable load purchasers** such that operation of the **grid** is affected or is likely to be affected

Clause 1.1(1) **loss of communication**: amended, on 1 November 2018, by clause 4(6) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2018.

**LV**, for the purposes of subparts 2, 6 and 7 of Part 12, means low voltage

**main protection system** means a protection system that detects 1 or more types of faults and **electrically disconnects** a faulted **asset** from the **grid** with the least possible disruption to the **grid** and non-faulted **assets**

Clause 1.1(1) **main protection system**: amended, on 5 October 2017, by clause 4(41) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**maintain**, for the purposes of Part 6, includes to repair, and **maintenance** has a corresponding meaning

**manufacturer's specification**, for the purposes of Part 12, means the specifications for an **asset**, as stated by the manufacturer

**market administrator** *[Revoked]*

Clause 1.1(1) **market administrator**: revoked, on 5 October 2017, by clause 4(60) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**market operation service provider** has the meaning given to it in section 5 of the **Act**

**market operation service provider agreement** means the agreement entered into between the **Authority** and a **market operation service provider** for the provision of services for the purposes of this Code

**maximum continuous rating** means the maximum electrical performance of an **asset** that can be maintained continuously in normal service

**maximum South Island frequency** means the maximum frequency permitted in the South Island, which is 55 Hertz

**measuring transformer** means—

- (a) a current transformer; or
- (b) a voltage transformer; or
- (c) both a current transformer and a voltage transformer

Clause 1.1(1) **measuring transformer**: inserted, on 29 August 2013, by clause 4(1) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**meter** means a device that measures either or both of the following—

- (a) **active energy**;
- (b) **reactive energy**;

Clause 1.1(1) **meter**: substituted, on 29 August 2013, by clause 4(2)(p) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**meter reading** means a **meter** register value or the equivalent, obtained from **raw meter data** or such other reading as detailed in clause 3(1) of Schedule 15.2, which is not an **estimated reading**

**metering** means the process used to measure **electricity** conveyed

Clause 1.1(1) **metering**: inserted, on 29 August 2013, by clause 4(1) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**metering component** means a component of a **metering installation** including—

- (a) a **measuring transformer**;
- (b) all wiring and intermediate terminals in the **metering installation**;
- (c) a **control device**;
- (d) a **meter**;
- (e) a **data storage device**;
- (f) a **test facility**;
- (g) a fuse;
- (h) a **circuit breaker**;
- (i) **communication equipment**;
- (j) an **error compensation device**

Clause 1.1(1) **metering component**: inserted, on 29 August 2013, by clause 4(1) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**metering data** means, in relation to a **metering installation**,—

- (a) all **metering records** about the **metering installation**; and
- (b) all **raw meter data** obtained from the **metering installation**

Clause 1.1(1) **metering data**: inserted, on 29 August 2013, by clause 4(1) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**metering equipment owner** means the **participant** who owns any or all of the items of metering equipment installed in a **metering installation**

**metering equipment provider** has the meaning given to it in section 5 of the **Act**  
Clause 1.1(1) **metering equipment provider**: inserted, on 29 August 2013, by clause 4(1) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**metering information** means the quantity of **electricity** measured by a **metering installation** and adjusted for **local losses** (if relevant) to represent the equivalent amount of **electricity** at the **point of connection** with the **grid** and consolidated into a single quantity per **trading period**

**metering infrastructure** means, in relation to a **metering installation**,—

- (a) the **metering installation**;
- (b) if a **back office** process is necessary, the **metering equipment owner's back office** for the **metering installation**;
- (c) a system that collects and sends information to or from the **metering installation**

Clause 1.1(1) **metering infrastructure**: inserted, on 29 August 2013, by clause 4(1) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**metering installation** means—

- (a) equipment, including all **metering components**, used, or intended to be used, for **metering**;
- (b) in the context of **unmetered load**, the calculation process used to derive the quantity of **unmetered load**;
- (c) in the context of instances of both **metered electricity** quantities and **unmetered load**, both (a) and (b)

Clause 1.1(1) **metering installation**: substituted, on 29 August 2013, by clause 4(2)(q) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

Clause 1.1(1) **metering installation**: inserted, on 1 February 2016, by clause 4(14) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2015.

**metering records** means all specifications for, attributes of, and information relating to or concerning, a **metering installation** (other than **raw meter data**), including—

- (a) the relevant records of the **metering equipment provider** responsible for the **metering installation**;
- (b) the relevant records of each **ATH** who **certified** the **metering installation** or any **metering component** of the **metering installation**;
- (c) all factors applied in a **meter** in the **metering installation** and relating to that data (for example the k factor and m factor);
- (d) the **metering installation's** maintenance and repair history and requirements;
- (e) details of each **metering component** in the **metering installation** including information about its ownership;
- (f) all **certification reports** and supporting documents and records

Clause 1.1(1) **metering records**: inserted, on 29 August 2013, by clause 4(1) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**metering situation** means a situation in which—

- (a) the **metering information** to be given is incomplete or incorrect or is and remains an **initial estimate** for—
  - (i) a **grid exit point** or **grid injection point** specified on the **annual consumption list** as having **historical annual consumption** greater than 500 GWh; or

- (ii) any 2 or more **grid exit points** or **grid injection points** specified on the **annual consumption list** as having **historical annual consumption** greater than 300 GWh; or
  - (iii) any 10 or more **grid exit points** or **grid injection points**; or
  - (iv) an **intermittent generating station** with a **point of connection** to the **grid**; or
  - (v) a **type B industrial co-generating station** with a **point of connection** to the **grid**; or
- (b) the **metering information** for a **dispatch-capable load station** given for a **trading period** is incomplete or incorrect or is and remains an **initial estimate** for a **grid exit point** at which a **nominated dispatch bid** has been submitted for the **trading period**

Clause 1.1(1) **metering situation**: substituted, on 15 May 2014, by clause 5(2) of the Electricity Industry Participation (Modified Dispatchable Demand) Code Amendment 2013.

Clause 1.1(1) **metering situation** paragraph (a)(v): inserted, on 27 May 2015, by clause 4(4) of the Electricity Industry Participation Code Amendment (Industrial Co-generation Dispatch Arrangements) 2015.

**metering testing requirements** [*Revoked*]

Clause 1.1(1) **metering testing requirements**: revoked, on 29 August 2013, by clause 4(3) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**metering standards** means the **metering** requirements set out in the Schedules to Part 10

Clause 1.1(1) **metering standards**: substituted, on 29 August 2013, by clause 4(2)(r) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**metrology layer** means a part of a **metering installation** used for either or both of the following:

- (a) measuring and recording **electricity** conveyed; or
- (b) recording **event logs**

Clause 1.1(1) **metrology layer**: inserted, on 29 August 2013, by clause 4(1) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**minimum South Island frequency** means the minimum frequency permitted in the South Island, which is 45 Hertz

**model formulation** means the model from which **software specifications** have been developed for the **system operator**

**modelled projects** means transmission augmentation projects and **non-transmission projects** that are reasonably expected to occur within the time period for which the assessment of costs and benefits under a net benefits test set out in Part 12 is undertaken

**momentary fluctuations** [*Revoked*]

Clause 1.1(1) **momentary fluctuations**: revoked, on 19 May 2016, by clause 4(1) of the Electricity Industry Participation Code Amendment (System Operator and Alignment with Statutory Objective) 2016.

**MV**, for the purposes of subparts 2, 6 and 7 of Part 12, means medium voltage

**MW** means a megawatt of electrical power

**MWh** means a megawatt hour of electrical energy

**N-1 criterion** means that, with all **assets** that are reasonably expected to be in service, the power system would be in a **secure state**

**nameplate capacity** means the lesser of—

- (a) the full-load continuous rating of **generating plant** under conditions specified by its designer in **MW** or kilowatts; or
- (b) the full-load continuous rating of the **generating plant's** inverter (if any) under conditions specified by its designer in **MW** or kilowatts

Clause 1.1(1) **nameplate capacity**: inserted, on 23 February 2015, by clause 4(12) of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.

**national grid** [*Revoked*]

Clause 1.1(1) **national grid**: revoked, on 23 February 2015, by clause 4(11) of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.

**national GWAP** means the generation weighted average price for both **islands** for a **trading period** calculated in accordance with clause 2(2) of Schedule 13.3A

Clause 1.1(1) **national GWAP**: inserted, on 1 June 2013, by clause 4(a) of the Electricity Industry Participation (Scarcity Pricing) Code Amendment 2011.

**national holiday** means any day on which any of the following are observed as a statutory holiday:

- (a) Good Friday:
- (b) Easter Monday:
- (c) ANZAC Day:
- (d) Queen's Birthday:
- (e) Labour Day:
- (f) Christmas Day:
- (g) Boxing Day:
- (h) New Year's Day:
- (i) the day after New Year's Day:
- (j) Waitangi Day

**national scarcity pricing situation** means a situation determined to be a national scarcity pricing situation by the **pricing manager** under clause 13.135A(4)

**national scarcity pricing situation**: inserted, on 1 June 2013, by clause 4(a) of the Electricity Industry Participation (Scarcity Pricing) Code Amendment 2011.

**national shortage situation** means concurrent **island shortage situations** in the North Island and the South Island

**national shortage situation**: inserted, on 1 June 2013, by clause 4(a) of the Electricity Industry Participation (Scarcity Pricing) Code Amendment 2011.

**negative sequence voltage** means a measure of difference in magnitude and phase angle in each phase

**net grid exit point** means any **grid exit point** or **grid injection point** that is not a **net grid injection point**

**net grid injection point** means a **grid exit point** or **grid injection point** for which the most recent information provided by the **grid owner** under clauses 13.141(1)(b) and 13.166 is less than or equal to 0

**net purchase quantity assessment** means the quantity of an **ancillary service** derived from the following formula:

$$a = b - c$$



where

- a is the net purchase quantity of the **ancillary service** to be procured by the **system operator** in accordance with the **procurement plan**
- b is the gross amount of an **ancillary service** that the **system operator** believes is required in order to meet the **principal performance objectives**;
- c is the amount of the **ancillary service** that is made available to the **system operator** under **alternative ancillary service arrangements**

**network** means the **grid**, a **local network** or an **embedded network**

**new investment agreement contracts** means contracts entered into before 1 April 2008 between **Transpower** and its customers, under which **Transpower** agrees to provide new or upgraded plant and the customer agrees to pay charges based on **Transpower's** cost of providing the new or upgraded plant

**New Zealand daylight time** means New Zealand daylight time declared by Order in Council under section 4 of the Time Act 1974

**New Zealand standard time** has the meaning given to it by section 2 of the Time Act 1974

**node** means—

- (a) a bus; or
- (b) a location at which an electrical link that is not part of or does not contain a **transformer**, diverges or terminates (such as a "tee" point or a deviation); or
- (c) a point at a substation at which 2 or more electrical links join at which there is no bus

**nominal voltage** means the voltage at which particular equipment is designed to operate under normal circumstances

**nominated bid**—

- (a) *[Revoked]*
- (b) *[Revoked]*
- (c) *[Revoked]*
- (d) means the information that a **purchaser** submits to the **system operator** under clause 13.7 to indicate a reasonable estimate of the—
  - (i) **electricity** that the **purchaser** will purchase for a **dispatch-capable load station** at a **GXP**; or
  - (ii) **non-dispatch-capable load** that the **purchaser** will purchase at a **non-conforming GXP**; and
- (e) includes a deemed **nominated bid** under clause 13.8A

Clause 1.1(1) **nominated bid**: inserted, on 28 June 2012, by clause 4(a) of the Electricity Industry Participation (Demand-side Bidding and Forecasting) Code Amendment 2011.

Clause 1.1(1) **nominated bid**: amended, on 15 May 2014, by clause 5(5) of the Electricity Industry Participation (Modified Dispatchable Demand) Code Amendment 2013.

Clause 1.1(1) **nominated bid**: amended, on 19 December 2014, by clause 4(3) of the Electricity Industry Participation Code Amendment (Minor Code Amendments) (No 3) 2014.

Clause 1.1(1) **nominated bid** paragraph (d): amended, on 29 June 2017, by clause 4(4) of the Electricity Industry Participation Code Amendment (Shortened Gate Closure and Revised Bid and Offer Provisions) 2017.

**nominated dispatch bid** means a **nominated bid** that a **purchaser** submits to the **system operator** in relation to a **dispatch-capable load station** that the **purchaser** is making available to be **dispatched**

Clause 1.1(1) **nominated dispatch bid**: inserted, on 15 May 2014, by clause 5(1) of the Electricity Industry Participation (Modified Dispatchable Demand) Code Amendment 2013.

**nominated non-dispatch bid** means a **nominated bid** that a **purchaser** submits to the **system operator** in relation to—

- (a) **non-dispatch-capable load** at a **non-conforming GXP**; or
- (b) a **dispatch-capable load station** that the **purchaser** is not making available to be dispatched

Clause 1.1(1) **nominated non-dispatch bid**: inserted, on 15 May 2014, by clause 5(1) of the Electricity Industry Participation (Modified Dispatchable Demand) Code Amendment 2013.

**non-conforming GXP** means a **GXP** that has been determined by the **Authority** to be a **non-conforming GXP** under clause 13.27A or 13.27B(4)

Clause 1.1(1) **non-conforming GXP**: inserted, on 28 March 2012, by clause 4(a) of the Electricity Industry Participation (Demand-side Bidding and Forecasting) Code Amendment 2011.

**non-dispatch-capable load** means a quantity of **electricity** purchased at a **GXP** that is not purchased for 1 or more **dispatch-capable load stations**.

Clause 1.1(1) **non-dispatch-capable load**: inserted, on 15 May 2014, by clause 5(1) of the Electricity Industry Participation (Modified Dispatchable Demand) Code Amendment 2013.

**non half-hour metering** means the process of measuring and recording information—

- (a) relating to **electricity** conveyed; and
- (b) at intervals that are greater than 1 **trading period**

Clause 1.1(1) **non half-hour metering**: inserted, on 29 August 2013, by clause 4(1) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**non half-hour metering installation** means a **metering installation** used for **non half-hour metering**

Clause 1.1(1) **non half-hour metering installation**: inserted, on 29 August 2013, by clause 4(1) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**non-response schedule** means the schedule prepared by the **system operator**—

- (a) under clause 13.58(1)(b); and
- (b) for the purpose of assisting **generators, purchasers, consumers, ancillary service agents, and grid owners** to manage their resources

Clause 1.1(1) **non-response schedule**: inserted, on 28 June 2012, by clause 4(a) of the Electricity Industry Participation (Demand-side Bidding and Forecasting) Code Amendment 2011.

**non-transmission projects** includes investments in any of the following:

- (a) generation;
- (b) energy efficiency;
- (c) **demand-side management**;
- (d) **local network** augmentation;
- (e) improvements to the systems and processes of the **system operator**;
- (f) the provision of **ancillary services**

**normal band** means a frequency band between 49.8 Hertz and 50.2 Hertz (both inclusive)

**notified planned outage** means the outage of an **asset** that forms part of, or is connected to, the **grid** or **local network**—

- (a) that is planned by the relevant **asset owner**; and
- (b) for which the **asset owner** has given written notice to the **system operator** in accordance with **Technical Code D** of Schedule 8.3

Clause 1.1(1) **notified planned outages**: amended, on 23 February 2015, by clause 75 of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.

Clause 1.1(1) **notified planned outages**: replaced, on 5 October 2017, by clause 4(1)(d) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**notify** [*Revoked*]

Clause 1.1(1) **notify**: revoked, on 5 October 2017, by clause 4(60) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**notional embedding contracts** means contracts entered into before 1 April 2008 between **Transpower** and its customers, under which a customer's generation assets are treated as if they were physically connected to load in lieu of their existing connection to the **grid**

Clause 1.1(1) **notional embedding contracts**: amended, on 23 February 2015, by clause 75 of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.

Clause 1.1(1) **notional embedding contracts**: amended, on 5 October 2017, by clause 4(43) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**NSP** means a network supply point that is a **point of connection** between—

- (a) a **local network** and the **grid**; or
- (b) 2 **local networks**; or
- (c) a **local network** and an **embedded network**; or
- (d) 2 **embedded networks**; or
- (e) a **generator** and the **grid**

Clause 1.1(1) **network supply point**: amended, on 5 October 2017, by clause 4(42) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**NSP identifier** means a unique identifier for an **NSP** created by the **reconciliation manager** in accordance with clause 28 of Schedule 11.1

**obligation FTR** means an **FTR** for which the terms and conditions provide that—

- (a) (excluding the **FTR acquisition cost**) the holder of the **FTR** is entitled to receive a payment when, for the **FTR period**, the difference between the price (calculated in accordance with the terms of the **FTR**) at the **hub** identified as hub B and the price at the **hub** identified as hub A in the **FTR** is positive; and
- (b) (excluding the **FTR acquisition cost**) the holder must make a payment when the difference between those prices is negative

Clause 1.1(1) **obligation FTR**: inserted, on 1 October 2011, by clause 4(1) of the Electricity Industry Participation (Financial Transmission Rights) Code Amendment 2011.

Clause 1.1(1) **obligation FTR**: amended, on 1 November 2012, by clause 4(3) of the Electricity Industry Participation (Financial Transmission Rights) Code Amendment 2012.

**offer** means the information that a **generator** submits to the **system operator** under clause 13.6(1), and includes any revised **offer** that a **generator** submits under clauses 13.17 to 13.19

Clause 1.1(1) **offer**: amended, on 15 May 2014, by clause 4(3) of the Electricity Industry Participation (Minor Code Amendments) Code Amendment 2014.

Clause 1.1(1) **offer**: substituted, on 29 June 2017, by clause 5(a) of the Electricity Industry Participation Code Amendment (Shortened Gate Closure and Revised Bid and Offer Provisions) 2017.

**offer stack** means the stack generated from ranking in price order, from lowest to highest, all **offers** to sell **electricity** as given to the **pricing manager** under clause 13.141(1)(c)

**offered FTR** means an **FTR** that has been offered into an **FTR reconfiguration auction**

Clause 1.1(1) **offered FTR**: inserted, on 1 November 2014, by clause 4(1) of the Electricity Industry Participation (FTR Reconfiguration Auctions) Code Amendment 2014.

**official conservation campaign** is a campaign to encourage **electricity** conservation that—

- (a) is commenced by the **system operator**; and
- (b) lasts for 1 week or more; and
- (c) covers—
  - (i) the South Island; or
  - (ii) all of New Zealand

Clause 1.1(1) **official conservation campaign**: inserted, on 1 April 2011, by clause 4(1) of the Electricity Industry Participation (Customer Compensation Schemes) Code Amendment 2011.

**offtake** means the flow of **electricity** from the **grid** at a **grid exit point**

**operating account** means the trust account established by the **clearing manager** in accordance with clause 14.66

Clause 1.1(1) **operating account**: amended, on 24 March 2015, by clause 4(1)(o) of the Electricity Industry Participation (Settlement and Prudential Security) Code Amendment 2013.

**option FTR** means an **FTR** for which the terms and conditions provide that—

- (a) (excluding the **FTR acquisition cost**) the holder of the **FTR** is entitled to receive a payment when, for the **FTR period**, the difference between the price (calculated in accordance with the terms of the **FTR**) at the **hub** identified as hub B and the price at the **hub** identified as hub A in the **FTR** is positive; but
- (b) (excluding the **FTR acquisition cost**) the holder is not required to make a payment when the difference between those prices is negative

Clause 1.1(1) **option FTR**: inserted, on 1 October 2011, by clause 4(1) of the Electricity Industry Participation (Financial Transmission Rights) Code Amendment 2011.

Clause 1.1(1) **option FTR**: amended, on 1 November 2012, by clause 4(4) of the Electricity Industry Participation (Financial Transmission Rights) Code Amendment 2012.

**options contract** means a contract containing the right to buy or sell a financial derivative contract

**other party**, for the purposes of subpart 5 of Part 13, means the **party** to a **risk management contract** who did not submit information under clauses 13.219(1) to (4), 13.223(1), or 13.224, as the case may be

**outage**, for the purposes of Part 12, has the meaning given to it by clause 12.130

**outage constraint** means any **grid injection point** or **grid exit point** that has no load or generation connected to it in the modelling system, and of which the **system operator** gives written notice to the **reconciliation manager** under clause 15.15(a)

Clause 1.1(1) **outage constraint**: replaced, on 5 October 2017, by clause 4(1)(e) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**outage plan**, for the purposes of Part 12, means the annual outage plan developed under the **Outage Protocol**

**Outage Protocol**, for the purposes of Part 12, means the Outage Protocol that is incorporated by reference in this Code under clause 12.150

**overall accuracy** *[Revoked]*

Clause 1.1(1) **overall accuracy**: revoked, on 29 August 2013, by clause 4(3) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**over frequency limit** means the maximum frequency of 50.5 Hz

**over frequency reserve** means an **ancillary service** that comprises an automatic reduction in the level of **injection** by a generating set to arrest an unplanned rise in system frequency

**participant** has the meaning given to it in section 5 of the **Act** and, for the purposes of Parts 8, 13, 14, and 14A, has the additional meaning set out in clause 1.5

Clause 1.1(1) **participant**: amended, on 5 October 2017, by clause 4(44) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**participant identifier** means a unique 4 letter code assigned to a **participant** under clause 15.39 that is used to identify the **participant**, including in the reconciliation and **registry** processes

Clause 1.1(1) **participant identifier**: amended, on 15 May 2014, by clause 4(4) of the Electricity Industry Participation (Minor Code Amendments) Code Amendment 2014.

**participant rolling outage plan** means a plan developed by a **specified participant** under clauses 9.6 to 9.13

**partly loaded spinning reserve** means a form of **instantaneous reserve** consisting of spare capacity, held in reserve on a **generating unit**, generating, but not operating at full output, which is able to provide **fast instantaneous reserve** or **sustained instantaneous reserve** following a drop in system frequency to a specified level below 50 Hz

Clause 1.1(1) **partly loaded spinning reserve**: amended, on 5 October 2017, by clause 4(45) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**party**, for the purposes of subpart 5 of Part 13, means either the **buyer** or **seller** under a **risk management contract** or both the **buyer** and **seller** under a **risk management contract**, as the case may be

**payee** *[Revoked]*

Clause 1.1(1) **payee**: substituted, on 1 October 2011, by clause 4(2) of the Electricity Industry Participation (Financial Transmission Rights) Code Amendment 2011.

Clause 1.1(1) **payee**: amended, on 15 May 2014, by clause 5(6) of the Electricity Industry Participation (Modified Dispatchable Demand) Code Amendment 2013.

Clause 1.1(1) **payee**: revoked, on 24 March 2015, by clause 4(1)(p) of the Electricity Industry Participation (Settlement and Prudential Security) Code Amendment 2013.

**payer** *[Revoked]*

Clause 1.1(1) **payer** paragraph (iv): inserted, on 1 October 2011, by clause 4(3) of the Electricity Industry Participation (Financial Transmission Rights) Code Amendment 2011.

Clause 1.1(1) **payer**: revoked, on 24 March 2015, by clause 4(1)(q) of the Electricity Industry Participation (Settlement and Prudential Security) Code Amendment 2013.

**permanent estimate** means a value sourced from an **estimated reading** that has passed the validation process in clauses 16 and 17 of Schedule 15.2 and has been calculated from **validated meter readings**

**pivotal** means—

- (a) in relation to a **generator**, that the total **demand** in a **trading period** at any 1 or more **nodes** would not have been met if the **generator** had not submitted **offers** for all or any of its **generating plant**; and
- (b) in relation to an **ancillary service agent**, that the total **demand** in a **trading period** for an **ancillary service** supplied by the **ancillary service agent** in an **island** would not have been met if the **ancillary service agent** had not submitted **reserve offers** for all or any of its capacity to provide **instantaneous reserve** in the **island**.

Clause 1.1(1) **pivotal**: inserted, on 17 July 2014, by clause 4(1) of the Electricity Industry Participation Code Amendment (Pivotal Supply) 2014.

**planned interruption**, for the purposes of Part 12, means an **interruption** caused by a **planned outage**

**planned outage**, for the purposes of Part 12, means an **outage** carried out in accordance with the planning requirements set out in the **Outage Protocol**

**point of connection** means a point at which **electricity** may flow into or out of a **network** and, for the purposes of **Technical Code A** of Schedule 8.3, means a **grid injection point** or a **grid exit point**

**point of measurement** *[Revoked]*

Clause 1.1(1) **point of measurement**: revoked, on 29 August 2013, by clause 4(3) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**point of service** means a normally contiguous electrical busbar of a particular voltage at which **Transpower**, as a **grid owner**, has agreed to provide services to 1 or more **designated transmission customers**

**point of supply**, in relation to any premises, means the point at which fittings, used or intended to be used for the purposes of supplying **electricity** to those premises, enter those premises

**policy statement** means the policy statement that is incorporated by reference in this Code under clause 8.10

**preceding year** *[Revoked]*

Clause 1.1(1) **preceding year**: revoked, on 5 October 2017, by clause 4(60) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**preceding year day** *[Revoked]*

Clause 1.1(1) **preceding year day**: revoked, on 5 October 2017, by clause 4(60) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**pre-dispatch schedule** *[Revoked]*

Clause 1.1(1) **pre-dispatch schedule**: revoked, on 28 June 2012, by clause 4(i) of the Electricity Industry Participation (Demand-side Bidding and Forecasting) Code Amendment 2011.

**preliminary sample** means the statistical sample that is required in order to establish parameter estimates to determine the appropriate size of the **profile sample**

**preliminary sample size** means the required size of the **preliminary sample**

**premium**, in relation to an **options contract**, means the dollar amount paid by the **buyer** of the **options contract** to the **seller**

**prescribed form** means a form prescribed from time to time by the **Authority**

**price**, for the purposes of Part 5, includes—

- (a) valuable consideration in any form, whether direct or indirect; and
- (b) any consideration that in effect relates to the acquisition of goods or services or the acquisition or disposition of any interest in land, although ostensibly relating to any other matter or thing

**price category** means the relevant code in the schedule **published** by a **distributor** that is used to unambiguously define the line charges for an **ICP**

**price-responsive schedule** means the schedule prepared by the **system operator**—

- (a) under clause 13.58(1)(a); and
- (b) for the purpose of assisting **generators, purchasers, consumers, ancillary service agents, and grid owners** to manage their resources

Clause 1.1(1) **price-responsive schedule**: inserted, on 28 June 2012, by clause 4(a) of the Electricity Industry Participation (Demand-side Bidding and Forecasting) Code Amendment 2011.

**pricing error** means an **interim price** or **interim reserve price** is incorrect or is likely to be incorrect, as the result of—

- (a) an incorrect input being used in calculating the **interim price** or **interim reserve price**; or
- (b) the **pricing manager** having followed an incorrect process in calculating that **interim price** or **interim reserve price**, in contravention of this Code

**pricing manager** means the **market operation service provider** who is for the time being appointed as pricing manager under this Code

**primary transmission equipment** means any plant or equipment forming part of the **grid** that enables the bulk transfer of **electricity**, including without limitation transmission circuits, busbars and switchgear

**principal performance obligation** and **PPO** mean a **system operator** obligation set out in any of clauses 7.2A to 7.2D

Clause 1.1(1) **principal performance obligations** and **PPOs**: amended, on 19 May 2016, by clause 4(3) of the Electricity Industry Participation Code Amendment (System Operator and Alignment with Statutory Objective) 2016.

**procurement plan** means the procurement plan that is incorporated by reference in this Code under clause 8.42

**profile** means a fixed or variable **electricity consumption pattern** assigned to a particular group of **meter** registers or **unmetered loads**

**profile acceptance limit** means the maximum value allowed for the sample **co-efficient of variation** calculated from the **preliminary sample**

**profile applicant** means the **participant** who submitted an application to the **Authority** to approve a new **profile** or a change to an existing **profile**, and may be a joint entity with more than 1 **participant** or an independent commercial entity acting on behalf of 1 or more **participants**

Clause 1.1(1) **profile applicant**: amended, on 5 October 2017, by clause 4(46) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**profile class** means the grouping of 1 or more individual **profiles** that are applied to **metering installations** and loads with similar generic descriptions

**profile owner** means the legal entity that introduced the approved **profile** or is nominated as the **profile owner** in accordance with Schedule 15.5

**profile population** means all **ICP identifiers** included in a **profile**

**profile sample** means the statistical sample used to generate consumption data that is to be used to represent the load patterns of all **ICP identifiers** included in the **profile**

**profile sample size** means the required size of the **profile sample**

**provisional marginal location factor** means the factor that is determined by dividing the **provisional price** at a **grid exit point** or **grid injection point** by the **provisional price** at the relevant **reference point**

**provisional price** means a price in dollars and cents that has been **published** based on data relating to a **provisional price situation**. When a **provisional price** is **published**, the **provisional price** applies to all **trading periods** on the relevant **trading day**

**provisional price situation** means a **metering situation**, or a **SCADA situation**, or an **infeasibility situation**, or a **high spring washer price situation**

**provisional reserve price** means a price calculated in dollars and cents that has been **published** based on data relating to a **provisional price situation**

**public conservation period** means—

- (a) any period during which an **official conservation campaign** is running;
- (b) any period during which a **supply shortage declaration** is in force for 1 week or more

Clause 1.1(1) **public conservation period**: inserted, on 1 April 2011, by clause 4(1) of the Electricity Industry Participation (Customer Compensation Schemes) Code Amendment 2011.

**publicise** [*Revoked*]

Clause 1.1(1) **publicise**: revoked, on 5 October 2017, by clause 4(60) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**publish** means—

- (a) in respect of information that the **Authority** is required to **publish** under this Code, to make the information available to the public, at no cost, on a website maintained by, or on behalf of, the **Authority**; or
- (b) in respect of information that a **participant** is required to **publish** under this Code, to make the information available to the public, at no cost, on a website maintained by, or on behalf of, the **participant**,—

and **published**, **publishes**, **publication**, and **publishing** have corresponding meanings



Clause 1.1(1) **publish**: replaced, on 5 October 2017, by clause 4(1)(f) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**purchaser** means a person who buys **electricity** from the **clearing manager** and, for the purposes of Parts 8, 13, 14, and 14A, has the additional meaning set out in clause 1.5

Clause 1.1(1) **purchaser**: amended, on 5 October 2017, by clause 4(47) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**qualifying customer** has the meaning set out in clause 9.21

Clause 1.1(1) **qualifying customer**: inserted, on 1 April 2011, by clause 4(1) of the Electricity Industry Participation (Customer Compensation Schemes) Code Amendment 2011.

**qualifying date** *[Revoked]*

Clause 1.1(1) **qualifying date**: inserted, on 1 April 2011, by clause 4(1) of the Electricity Industry Participation (Customer Compensation Schemes) Code Amendment 2011.

Clause 1.1(1) **qualifying date**: revoked, on 5 October 2017, by clause 4(60) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**quantity**, for the purposes of subpart 5 of Part 13, means—

- (a) for a **contract for differences** or **options contract** the total volume in **MWh** of **electricity** to which the contract relates; or
- (b) for a **fixed-price physical supply contract**, the volume in **MWh** of **electricity** reasonably likely to be supplied under the contract

**ratio compensation** means a multiplier, used to convert **raw meter data** into **volume information**, that is developed from—

- (a) the connected ratio of **measuring transformers**; and
- (b) the number of **metering** elements; and
- (c) the resolution of the **meter**

Clause 1.1(1) **ratio compensation**: inserted, on 29 August 2013, by clause 4(1) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

Clause 1.1(1) **ratio compensation**: amended, on 23 February 2015, by clause 75 of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.

Clause 1.1(1) **ratio compensation**: amended, on 5 October 2017, by clause 4(48) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**raw meter data** means—

- (a) for the purposes of Part 10, information obtained by the **interrogation** of a **metering installation**; or
- (b) for the purposes of Part 15, information obtained from a **metering installation** by 1 of the following **interrogation** methods:
  - (i) locally by way of a handheld computer or recording device (in which case it must take the form of a downloaded file); or
  - (ii) locally by way of any other manual record (in which case it must take the form of the first entry in a database system); or
  - (iii) remotely (in which case it must take the form of database records), but excluding data transmission between **meters** and data concentrators that are relaying information into the **back office**

Clause 1.1(1) **raw meter data**: substituted, on 29 August 2013, by clause 4(2)(s) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**reactive** means that component of the impedance at which the current and voltage are 90 degrees out of phase

**reactive capability** means the **reactive power** injection or absorption capability of **generating units** and other **reactive power** resources such as Static Var Compensators, capacitors and synchronous condensers, and includes **reactive power** capability of a **generating unit** during the normal course of the **generating unit** operations

**reactive current** means the component of electrical current on a **line** 90 degrees out of phase with the voltage on the **line**

Clause 1.1(1) **reactive current**: inserted, on 24 November 2016, by clause 4 of the Electricity Industry Participation Code Amendment (Generation Fault Ride Through) 2016.

**reactive energy** means the integration over time of the product of voltage and current and the sine of the phase angle between them, normally measured in kilovar hours (kvarh)

Clause 1.1(1) **reactive energy**: inserted, on 29 August 2013, by clause 4(1) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**reactive meter** means a **meter** used for the measurement of **reactive power**

**reactive power** means the product of voltage and current and the sine of the phase angle between them, and which is normally measured in kiloVolt-Amps reactive (kVAr)

**real time price** means a price for **electricity** at a **grid exit point** or a **grid injection point**, and the price for **instantaneous reserve** in dollars and cents for the **real time pricing period** determined in accordance with clause 13.88

Clause 1.1(1) **real time price**: amended, on 21 September 2012, by clause 4(6) of the Electricity Industry Participation (Minor Amendments) Code Amendment 2012.

**real time pricing period** means a period of 5 minutes starting on the hour or any multiple of 5 minutes past the hour on any **trading day**

**reasonable and prudent operating practice**, in relation to **distributed generation**, includes—

- (a) the industry operating standards; and
- (b) measures to avoid the injection of **electricity** from **distributed generation** that—
  - (i) exceeds the **distribution network capacity** at the point of injection; or
  - (ii) results in a significant adverse effect on voltage levels; or
  - (iii) results in a significant adverse effect on the quality and reliability of **electricity** conveyed to other users of the **distribution network**; and
- (c) the use or proposed use of reasonable and prudent measures to enable the connection of **distributed generation**

Clause 1.1(1) **reasonable and prudent operating practice**: amended, on 23 February 2015, by clause 4(10) of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.

Clause 1.1(1) **reasonable and prudent operating practice**: amended, on 23 February 2015, by clause 75 of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.

Clause 1.1(1) **reasonable and prudent operating practice**: amended, on 5 October 2017, by clause 4(49) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**reasonable and prudent system operator** [*Revoked*]

Clause 1.1(1) **reasonable and prudent system operator**: revoked, on 19 May 2016, by clause 4(1) of the Electricity Industry Participation Code Amendment (System Operator and Alignment with Statutory Objective) 2016.

**recalibration** means to repeat a **calibration** because a previous **calibration** has expired or become suspect, and **recalibrate** has a corresponding meaning

**recertification** means to repeat a **certification** because a previous **certification** has expired or been cancelled, and **recertified** and **recertify** have corresponding meanings

**reconciled quantity** means a quantity of **electricity** that has been reconciled by the **reconciliation manager**

**reconciliation information** means information specifying the amount of **electricity** sold to or purchased from the **clearing manager** in each **half hour** of a **reconciliation period** (or such other period as has been agreed to), calculated from and reconciled with **submission information** and the relevant **losses**, and after the process of balancing in accordance with clause 22 of Schedule 15.4

**reconciliation manager** means the **market operation service provider** who is for the time being appointed as reconciliation manager under this Code

**reconciliation participant** means a **participant** (excluding the **Authority** (even if the **Authority** acts as a **market operation service provider**) and the **Rulings Panel**) who is any of the following:

- (a) a **retailer** when purchasing **electricity** from, or selling **electricity** to, the **clearing manager**;
- (b) a **generator**;
- (c) a **network** owner;
- (d) a **distributor**;
- (e) a person who purchases **electricity** from or sells **electricity** to the **clearing manager**

**reconciliation period** means a calendar month, subsequent to a **consumption period**, during which the reconciliation process is performed in respect of the **electricity** conveyed during 1 or more **consumption periods**

Clause 1.1(1) **reconciliation period**: amended, on 1 June 2011, by clause 4(2) of the Electricity Industry Participation (Minor Amendments) Code Amendment 2011.

**reconciliation type** means a code that identifies the type of processing to be performed during reconciliation

**reconfigured FTR** means the portion of an **FTR** that was sold at an **FTR**

**reconfiguration auction**

Clause 1.1(1) **reconfigured FTR**: inserted, on 1 November 2014, by clause 4(1) of the Electricity Industry Participation (FTR Reconfiguration Auctions) Code Amendment 2014.

**reference point** means,—

- (a) for the North Island,—
  - (i) the Haywards 220 kV bus to which the HVDC Pole 2 or Pole 3 **injection** or **offtake** is **electrically connected**; or
  - (ii) if there is no Pole 2 or Pole 3 **injection** or **offtake** that is **electrically connected** to a Haywards 220kV bus, the first indexed Haywards 220 kV **node**;
- (b) for the South Island,—
  - (i) the Benmore 220 kV bus to which the HVDC Pole 2 or Pole 3 **injection** or **offtake** is **electrically connected**; or

- (ii) if there is no Pole 2 or Pole 3 **injection** or **oftake** that is **electrically connected** to a Benmore 220kV bus, the first indexed Benmore 220 kV **node**

Clause 1.1(1) **reference point**: substituted, on 1 July 2012, by clause 4(3) of the Electricity Industry Participation (HVDC Pole 3 Minor Amendments) Code Amendment 2012.

Clause 1.1(1) **reference point**: amended, on 23 February 2015, by clause 75 of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.

Clause 1.1(1) **reference point**: amended, on 5 October 2017, by clause 4(50) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**reference standard** means a measuring instrument that has been **calibrated** by an **approved calibration laboratory** and is not used as a **working standard**

**register** means the register of **participants** maintained by the **Authority** under section 16 of the **Act**

**registered**, in relation to a **participant**, means that details of the **participant** are kept in the **register**

**registry** means the database maintained by the **Authority** to record information about **ICPs**

Clause 1.1(1) **registry** and **registry manager**: replaced, on 5 October 2017, by clause 4(1)(g) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**registry manager** means the **market operation service provider** for the time being appointed as registry manager under this Code

Clause 1.1(1) **registry manager**: inserted, on 5 October 2017, by clause 4(61) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**registry metering records** means the **metering records** set out in Table 1 of clause 7 of Schedule 11.4

Clause 1.1(1) **registry metering records**: inserted, on 29 August 2013, by clause 4(1) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**regulated terms** means the terms set out in Schedule 6.2

**relative standard error** means the error expressed as a percentage of the estimated parameter

**relevant contracts** *[Revoked]*

Clause 1.1(1) **relevant contracts**: revoked, on 24 March 2015, by clause 4(1)(r) of the Electricity Industry Participation (Settlement and Prudential Security) Code Amendment 2013.

**relevant information** *[Revoked]*

Clause 1.1(1) **relevant information**: amended, on 21 September 2012, by clause 4(7) of the Electricity Industry Participation (Minor Amendments) Code Amendment 2012.

Clause 1.1(1) **relevant information**: revoked, on 1 October 2013, by clause 4(3) of the Electricity Industry Participation (Disclosure Obligations) Code Amendment 2013.

**relevant local reconciliation contracts** means the contracts for the sale and/or the purchase of **electricity** within a **local network**

**relevant participant** *[Revoked]*

Clause 1.1(1) **relevant participant**: inserted, on 29 August 2013, by clause 4(1) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

Clause 1.1(1) **relevant participant**: revoked, on 1 June 2017, by clause 4(2) of the Electricity Industry Participation Code Amendment (Requirements and Processes for Audits) 2016.

**relevant registration factor** means the mean difference over time between **metering installation** readings and **check metering information** readings at the relevant **grid exit point**

**republish** *[Revoked]*

Clause 1.1(1) **republish**: revoked, on 5 October 2017, by clause 4(60) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**reserve offer** means the information that an **ancillary service agent** submits to the **system operator** under clauses 13.37 to 13.54 specifying the **instantaneous reserve** the **ancillary service agent** is willing and able to provide

Clause 1.1(1) **reserve offer**: substituted, on 28 June 2012, by clause 4(g) of the Electricity Industry Participation (Demand-side Bidding and Forecasting) Code Amendment 2011.

Clause 1.1(1) **reserve offer**: substituted, on 29 June 2017, by clause 5(b) of the Electricity Industry Participation Code Amendment (Shortened Gate Closure and Revised Bid and Offer Provisions) 2017.

**residual loss and constraint excess** means, in respect of a **billing period**, an amount available for the settlement of **FTRs** that is not required to settle **FTRs** for the **billing period**, but does not include any amount that is retained for the settlement of **FTRs** in a future **billing period** in accordance with clause 13.249(6)

Clause 1.1(1) **residual loss and constraint excess**: inserted, on 1 October 2011, by clause 4(1) of the Electricity Industry Participation (Financial Transmission Rights) Code Amendment 2011.

Clause 1.1(1) **residual loss and constraint excess**: amended, on 24 March 2015, by clause 4(1)(s) of the Electricity Industry Participation (Settlement and Prudential Security) Code Amendment 2013.

**resistive** means that component of the impedance that is where the current and voltage are in phase

**responsible party** means the person responsible for the installation, maintenance, operation and **interrogation** of a **metering installation** and the supply of **submission information** to the **reconciliation manager**

**retailer** means as follows:

- (a) except as provided in paragraphs (b) and (c), a **participant** who supplies **electricity** to another person for any purpose other than for resupply by the other person:
- (b) in Parts 1 (except for the definition of specified participant), 8, 10, and 12 to 15, a **participant** who supplies **electricity** to a **consumer** or to another **retailer**:
- (c) in subpart 4 of Part 9, the **retailer** defined in paragraph (a) who is recorded in the **registry** as being responsible for the **ICP** described in clause 9.21(1)(b)

Clause 1.1(1) **retailer**: substituted, on 1 April 2011, by clause 4(2) of the Electricity Industry Participation (Customer Compensation Schemes) Code Amendment 2011.

Clause 1.1(1) **retailer** para (b): amended, on 28 February 2015, by clause 4 of the Electricity Industry Participation Code Amendment (Trader Default) 2014.

Clause 1.1(1) **retailer**: amended, on 5 October 2017, by clause 4(51) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**Rio Tinto agreement** *[Revoked]*

Clause 1.1(1) **Rio Tinto agreement**: revoked, on 16 December 2013, by clause 4(2)(c) of the Electricity Industry Participation (Revocation of Part 16) Code Amendment 2013.

**Rio Tinto party** *[Revoked]*

Clause 1.1(1) **Rio Tinto party**: revoked, on 16 December 2013, by clause 4(2)(d) of the Electricity Industry Participation (Revocation of Part 16) Code Amendment 2013.

**risk management contract**, for the purposes of subpart 5 of Part 13, means—

- (a) a **contract for differences**; or
- (b) a **fixed-price physical supply contract**; or
- (c) an **options contract**; but
- (d) does not include an **FTR**

Clause 1.1(1) **risk management contract**: amended, on 15 May 2014, by clause 4(5) of the Electricity Industry Participation (Minor Code Amendments) Code Amendment 2014.

**round power** means a mode of operation of the **HVDC link** where power is transferred in opposite directions on Pole 2 and Pole 3

Clause 1.1(1) **round power**: inserted, on 1 July 2012, by clause 4(4) of the Electricity Industry Participation (HVDC Pole 3 Minor Amendments) Code Amendment 2012.

**rules** means the Electricity Governance Rules 2003

**Rulings Panel** has the meaning given to it in section 5 of the **Act**

**sample date** means the most recent date when the **profile sample** was drawn or updated

**satisfactory state** means that none of the following occur on the power system:

- (a) insufficient **supply of electricity** to satisfy **demand for electricity** at any **grid exit point**:
- (b) **unacceptable overloading** of any **primary transmission equipment**:
- (c) **unacceptable voltage conditions**:
- (d) **system instability**

**SCADA** means the monitoring and remote control of equipment from a central location using computing technologies

**SCADA situation** means a situation where the **input information** to be given under clause 13.141(1)(a) is incorrect or incomplete, except when a reasonable estimate has been made by the **grid owner** under clause 13.141(1)(a)(ii)

Clause 1.1(1) **SCADA situation**: amended, on 15 May 2014, by clause 5(7) of the Electricity Industry Participation (Modified Dispatchable Demand) Code Amendment 2013.

**scaling factor**, for the purpose of Appendix A of Technical Code C of Schedule 8.3, means a factor applied to a measurement at 1 point to calculate a corresponding measurement at another point

Clause 1.1(1) **scaling factor**: inserted, on 1 June 2011, by clause 4(1) of the Electricity Industry Participation (Minor Amendments) Code Amendment 2011.

**schedule of dispatch prices, dispatch quantities, dispatch arc flows, dispatch group constraint arc flows, group constraint formulas and HVDC component flows**

*[Revoked]*

Clause 1.1(1) **schedule of dispatch prices, dispatch quantities, dispatch arc flows, dispatch group constraint arc flows, group constraint formulas and HVDC component flows**: revoked, on 28 June 2012, by clause 4(i) of the Electricity Industry Participation (Demand-side Bidding and Forecasting) Code Amendment 2011.

**scarcity pricing situation** means an **island scarcity pricing situation** or a **national scarcity pricing situation**

Clause 1.1(1) **scarcity pricing situation**: inserted, on 1 June 2013, by clause 4(a) of the Electricity Industry Participation (Scarcity Pricing) Code Amendment 2011.

**schedule length period** means,—

- (a) in relation to a **price-responsive schedule** or a **non-response schedule** prepared under clause 13.62(1)(a), the current **trading period** and the following 71 **trading periods**; and
- (b) in relation to a **price-responsive schedule** or a **non-response schedule** prepared under clause 13.62(1)(b), the current **trading period** and the following 7 **trading periods**

Clause 1.1(1) **schedule length period**: inserted, on 28 June 2012, by clause 4(a) of the Electricity Industry Participation (Demand-side Bidding and Forecasting) Code Amendment 2011.

**schedule period** means the current **trading period** and the following 71 **trading periods**

Clause 1.1(1) **schedule period**: substituted, on 28 June 2012, by clause 4(h) of the Electricity Industry Participation (Demand-side Bidding and Forecasting) Code Amendment 2011.

**scheduled quantity**, for the purposes of clauses 13.194 and 13.204(1)(a) and (b), means the sum of all the **offer** quantities at the relevant **grid injection point** at which the **final price** is equal to or greater than the **offer** price for each of those **offer** quantities in the relevant **trading period**. For the **grid injection points** that form part of a **block dispatch group**, **scheduled quantity** is the sum of all the **offer** quantities of the individual **grid injection points** that form that **block dispatch group** at which the **final price** is equal to or greater than the **offer** price for each of those **offer** quantities in the relevant **trading period**

**scorecard rating** means the numerical value, pursuant to clauses 17 and 18 of Schedule 15.4, to rate the quality of each **retailer's** processes for the production of **submission information**

**seasonal adjustment shape** means the total energy consumption (expressed as daily kWh values) for all **NSP** derived **profiles** for all **retailers** in each **balancing area**

**secure state** means that the power system—

- (a) would be in a **satisfactory state**; and
- (b) would remain in a **satisfactory state** during and following a **single credible contingency event** occurring on the **grid**

**security of supply forecasting and information policy** means the security of supply forecasting and information policy that is incorporated by reference in this Code under clause 7.4

**selected component certification** means **certification** of a **metering installation** under clause 11(3) of Schedule 10.7

Clause 1.1(1) **selected component certification**: inserted, on 29 August 2013, by clause 4(1) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**seller**, for the purposes of subpart 5 of Part 13, means—

- (a) in respect of a **contract for differences**, the **floating-price payer**; or
- (b) in respect of a **fixed-price physical supply contract**, the **party** selling the **electricity**; or
- (c) in respect of an **options contract**, either—
  - (i) the **party** receiving the **premium**; or

- (ii) if there is no **premium** under the **options contract**, the **party** who agrees to be the **seller** for the purposes of subpart 5 of Part 13; or
- (iii) if neither **party** agrees to be the **seller**, the **party** whose name is the second alphabetically

**series**, for the purposes of determining the level of impedance of **branches** under Part 12, means an arrangement of **assets** where the **assets** comprising a **branch** have the same current flowing through them

**serious financial breach**—

- (a) means a failure by a **retailer**—
  - (i) to pay to a **distributor** an amount due and owing that exceeds the greater of \$100,000 or 20% of the actual charges payable by the **retailer** for the previous month, unless the amount is genuinely disputed by the **retailer**; or
  - (ii) to comply with the prudential requirements under a **use-of-system agreement** between the **retailer** and a **distributor**; but
- (b) does not include a failure by a **retailer** to comply with prudential requirements to the extent that the prudential requirements exceed what is permitted under clauses 12A.4 and 12A.5.

Clause 1.1(1) **serious financial breach**: inserted, on 16 December 2013, by clause 4 of the Electricity Industry Participation (Managing Retailer Default Situations) Code Amendment 2013.

**services access interface** means the point, at which access may be gained to the services available from a **metering installation**, that is—

- (a) recorded in the **certification report** by the **certifying ATH** for the **metering installation**; and
- (b) where information received from the **metering installation** can be made available to another person; and
- (c) where signals for services such as remote control of load (but not ripple control) can be injected

Clause 1.1(1) **services access interface**: inserted, on 29 August 2013, by clause 4(1) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2013.

**settlement default** means failure of a **participant** to pay any amount payable when it becomes due under Part 14

Clause 1.1(1) **settlement default**: inserted, on 24 March 2015, by clause 4(1)(t) of the Electricity Industry Participation (Settlement and Prudential Security) Code Amendment 2013.

**shared unmetered load** means **unmetered load** at a single **point of connection** that is distributed across more than 1 **ICP**

**shortage situation** means an **island shortage situation** or a **national shortage situation**

Clause 1.1(1) **shortage situation**: inserted, on 1 June 2013, by clause 4(a) of the Electricity Industry Participation (Scarcity Pricing) Code Amendment 2011.

**shunt**, for the purposes of determining the level of impedance of **branches** under Part 12, means an arrangement of **assets** where the **assets** comprising a **branch** have the same voltage across the terminals



**shunt asset**, for the purposes of Part 12, means a shunt connected **asset** that is an **interconnection asset**

Clause 1.1(1) **shunt asset**: amended, on 23 February 2015, by clause 75 of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.

Clause 1.1(1) **shunt asset**: amended, on 5 October 2017, by clause 4(52) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**simple random sampling without replacement** means the general procedure of drawing **consumers** from a **profile population** to form a sample. Each **consumer** in the **profile population** must have an equal probability of being drawn and may only be drawn once

**single credible contingency event** means an individual credible contingency event comprising any of the following:

- (a) a single transmission circuit interruption:
- (b) the failure or removal from operational service of a single **generating unit**:
- (c) an **HVDC link** single pole interruption:
- (d) the failure or removal from service of a single bus section:
- (e) a single inter-connecting transformer interruption:
- (f) the failure or removal from service of a single shunt connected reactive component

Clause 1.1(1) **single credible contingency event**: amended, on 23 February 2015, by clause 75 of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.

Clause 1.1(1) **single credible contingency event**: amended, on 5 October 2017, by clause 4(53) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**single-line diagram** means a schematic diagram of a **network** interface

**software** means, other than in Parts 10 and 15, any software—

- (a) developed by or on behalf of a **market operation service provider** that is used by that **market operation service provider** to perform its obligations under this Code or its **market operation service provider agreement**; or
- (b) used by a **market operation service provider** exclusively for the purposes of performing its obligations under this Code or its **market operation service provider agreement**

Clause 1.1(1) **software**: amended, on 29 August 2013, by clause 4(2)(t) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**software specification** means the user requirements and other information describing the **software** in respect of the **market operation service providers**

**special credit clause** means a clause in a **contract for differences** that specifies that, if a **party** defaults during the **term** of the contract, the **party** that is not in default will be paid a specified amount or that on execution of the contract, the **party** that is not in default, is provided with a guarantee that payment will be made when the settlement amount reaches a certain threshold

**special protection scheme** means a protection scheme that takes predetermined action, including reconfiguration of the **grid**, changes of **demand**, or changes of generation, to counteract a particular condition once that condition is detected. **Special protection schemes** allow a power system to be operated to a higher pre-event capacity limit while

still in a **secure state**. **Automatic under frequency load shedding systems and instantaneous reserves** are excluded from the requirements for **special protection schemes**

Clause 1.1(1) **special protection scheme**: inserted, on 1 June 2011, by clause 4(1) of the Electricity Industry Participation (Minor Amendments) Code Amendment 2011.

Clause 1.1(1) **special protection scheme**: amended, on 15 May 2014, by clause 4(6) of the Electricity Industry Participation (Minor Code Amendments) Code Amendment 2014.

Clause 1.1(1) **special protection scheme**: amended, on 1 February 2016, by clause 4(15) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2015.

**specified participant** for the purposes of Part 9,—

- (a) means any of the following:
  - (i) **distributor**;
  - (ii) **retailer**;
  - (iii) a **line owner**; and
- (b) includes a person who uses **electricity** that is conveyed to the person directly from the **grid**

**spot price risk disclosure statement** means a spot price risk disclosure statement prepared and submitted under clause 13.236A

Clause 1.1(1) **spot price risk disclosure statement**: inserted, on 1 December 2011, by clause 4 of the Electricity Industry Participation Code (Spot Price Risk Disclosure) Amendment 2011.

**statement of extended reserve obligations**, in relation to an **asset owner**, means the latest statement of obligation given to the **asset owner** by the **system operator** under clause 8.54P

Clause 1.1(1) **statement of extended reserve obligations**: inserted, on 7 August 2014, by clause 4(3) of the Electricity Industry Participation Code Amendment (Extended Reserve) 2014.

**statement of proposal**, in relation to a proposal, means a statement that contains—

- (a) a detailed statement of the proposal; and
- (b) a statement of the reasons for the proposal; and
- (c) an assessment of the reasonably practicable options, including the proposal; and
- (d) any other information relevant to considering the proposal.

**station dispatch group** means—

- (a) 1 or more **generating units** that inject into a single **grid injection point**; or
- (b) 1 or more **generating units** that are the subject of an agreement between the **system operator** and a **generator**,—

and is not a **block dispatch group**

**station net** means the sum of all **generating unit net** outputs for **generating units** at a single **generating station**, measured or calculated at its **point of connection**, but excludes **generating unit load** and any other active or **reactive power** (including losses) supplied between the **generating station** and the **point of connection**

Clause 1.1(1) **station net**: inserted, on 1 June 2011, by clause 4(1) of the Electricity Industry Participation (Minor Amendments) Code Amendment 2011.

**station security constraint** means any of the following:

- (a) a constraint applied by the **system operator** to a **generating unit** to provide **voltage support** or frequency reserve capacity as determined in accordance with Part 8:

- (b) a limitation in the offered capacity of a **grid owner's network** to convey **electricity** between **generating units** constituting a **station dispatch group**;
- (c) a limitation in the offered capacity of a **grid owner's network** to convey **electricity** between **generating units** constituting a **station dispatch group** and a **grid owner's network**—

and, if in paragraphs (b) and (c) above, the limitation in the offered capacity is either the offered capacity of a **grid owner's network** or a **grid system security limit**, as determined by the **system operator** in accordance with Part 8

**stress test** means a stress test **published** by the **Authority** under clause 13.236D

Clause 1.1(1) **stress test**: inserted, on 1 December 2011, by clause 4 of the Electricity Industry Participation Code (Spot Price Risk Disclosure) Amendment 2011.

Clause 1.1(1) **stress test**: amended, on 5 October 2017, by clause 4(54) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**sub-block dispatch groups** means a grouping of **generating stations** or **generating units** within a **block dispatch group** into subgroups to take account of any **block security constraints** of which the **system operator** gives notice in accordance with clauses 13.61(1) and 13.73(1)(j)

Clause 1.1(1) **sub-block dispatch groups**: amended, on 21 September 2012, by clause 4(8) of the Electricity Industry Participation (Minor Amendments) Code Amendment 2012.

Clause 1.1(1) **sub-block dispatch groups**: amended, on 15 May 2014, by clause 5(8) of the Electricity Industry Participation (Modified Dispatchable Demand) Code Amendment 2013.

Clause 1.1(1) **sub-block dispatch groups**: amended, on 1 November 2018, by clause 4(8)(a) and (b) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2018.

**sub-station dispatch group** means a grouping of **generating units** or **generating stations** within a **station dispatch group** into subgroups to take account of any **station security constraints** of which the **system operator** gives notice in accordance with clauses 13.65(1) and 13.75(1)(g)

Clause 1.1(1) **sub-station dispatch groups**: amended, on 15 May 2014, by clause 5(9) of the Electricity Industry Participation (Modified Dispatchable Demand) Code Amendment 2013.

Clause 1.1(1) **sub-station dispatch groups**: amended, on 1 February 2016, by clause 4(16) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2015.

Clause 1.1(1) **sub-station dispatch group**: amended, on 1 November 2018, by clause 4(9) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2018.

**submission expiry date** means—

- (a) in the case of a submission on a **draft policy statement**, the date the **Authority** advises in accordance with clause 8.12(2); and
- (b) in the case of a submission on a **draft procurement plan**, the date the **Authority** advises in accordance with clause 8.44(2); and
- (c) in the case of a submission on the **transmission agreement** structure, the date the **Authority** advises in accordance with clause 12.6(3); and
- (d) in the case of a submission on the draft **benchmark agreement**, the date the **Authority** advises in accordance with clause 12.32(2); and
- (e) in the case of a submission on the draft **grid reliability standards**, the date **published** by the **Authority** in accordance with clause 12.61(3); and
- (f) in the case of a submission on the issues paper, the date **published** by the **Authority** in accordance with clause 12.82(1); and
- (g) in the case of a submission on the proposed **transmission pricing methodology**,

the date **published** by the **Authority** in accordance with clause 12.92(2)

Clause 1.1(1) **submission expiry date**: amended, on 19 December 2014, by clause 4(4) of the Electricity Industry Participation Code Amendment (Minor Code Amendments) (No 3) 2014.

Clause 1.1(1) **submission expiry date**: amended, on 1 November 2018, by clause 4(10)(a) and (b) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2018.

**submission information** means **volume information** aggregated in accordance with clause 8 of Schedule 15.3 (and includes, if relevant, any **profile** shape or control times associated with a **profile**)

**subsidiary** means a subsidiary as defined in section 5 of the Companies Act 1993

**supply** means a measure of the rate of production of electrical energy

**supply shortage declaration** means a declaration made under clause 9.14

**suspension clause** means a clause in a **risk management contract** under which some or all of the obligations may be suspended due to an event directly relating to the **supply** (including transmission) or generation of **electricity** or the price at which **electricity** is supplied, including an inability to inject **electricity** into the **grid** as a result of an **outage** of or damage to the **grid** or a **grid injection point** or the price of **electricity** exceeding a level specified in the contract

**sustained instantaneous reserve** means—

- (a) for providers of **partly loaded spinning reserve** and **tail water depressed reserve**, the average additional output (in **MW**) provided during the first 60 seconds after a Contingent Event (as defined in the **policy statement**) that is sustained for at least 15 minutes after the Contingent Event (unless a new **dispatch instruction** is given before the expiry of that 15 minute period); and
- (b) for providers of **interruptible load**, the average drop in load (in **MW**) that occurs over the first 60 seconds after the **grid** system frequency falls to or below 49.2 Hz that is sustained until instructed by the **system operator**

**switch event meter reading**, in relation to a **meter** or **data storage device** that is located at an **ICP** that is being switched under Schedule 11.3, means—

- (a) a **validated meter reading**, if one is available; or
- (b) a reasonable estimate of the **meter reading** based on the **meter reading** contained in the final information provided in the switch file that the losing **trader** received when it gained the **ICP** if—
  - (i) a **validated meter reading** is not available; and
  - (ii) the losing **trader** has been recorded in the **registry** as being responsible for the **ICP** for a period of less than 3 months; or
- (c) in every other case, a **permanent estimate**

Clause 1.1(1) **switch event meter reading**: amended, on 9 October 2015, by clause 4 of the Electricity Industry Participation Code Amendment (ICP Switching) 2014.

**synchronised** means the condition whereby a synchronous machine is **electrically connected** to a **network** and the electrical angular velocity of the machine corresponds with the **network** frequency and **synchronise**, **de-synchronise**, **synchronising**, **synchronism** and **synchronisation** have corresponding meanings. Asynchronous

**intermittent generating stations** must be treated as being **synchronised** for the purposes of subpart 2 of Part 8

Clause 1.1(1) **synchronised**: amended, on 23 February 2015, by clause 75 of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.

Clause 1.1(1) **synchronised**: amended, on 5 October 2017, by clause 4(55) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**system instability** means operating conditions under which it is reasonably likely that 1 or more **generating units** may cease to be **synchronised** with the **grid**

**system number** means a coded number assigned to **assets** referred to in clause 2(1)(a) of **Technical Code A** of Schedule 8.3 for the purposes of the operation of the **grid** and the management of the **assets** that, when used in conjunction with a locality name, uniquely identifies the **assets**

**system operator** has the meaning given to it in section 5 of the **Act**

**system operator register** means the register kept by the **system operator** for recording **equivalence arrangements, dispensations, and alternative ancillary service arrangements** in accordance with clause 8 of Schedule 8.1 and clause 4 of Schedule 8.2. The **system operator** must maintain an up to date copy of the **system operator register** and **publish** it and keep it **published**

Clause 1.1(1) **system operator register**: amended, on 5 October 2017, by clause 4(56) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**system operator rolling outage plan** means the system operating rolling outage plan that is incorporated by reference in this Code under clause 9.3

**system security** means the security and quality objectives set out in Part 8

**system security forecast** means the forecast prepared by the **system operator** under clause 8.15

**system security situation** means any situation that the **system operator** believes on reasonable grounds is not adequately mitigated by the current **policy statement** and 1 of the following exists:

- (a) the **system operator** reasonably considers that its ability to comply with the **principal performance obligations** is at risk:
- (b) there is a risk of significant damage to **assets**:
- (c) public safety is at risk

**system test** means a test conducted on an **asset**, with the **asset electrically connected to the grid**, to assess the interaction of the **asset** with the **grid**

Clause 1.1(1) **system test**: amended, on 23 February 2015, by clause 75 of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.

Clause 1.1(1) **system test**: amended, on 5 October 2017, by clause 4(57) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**tail water depressed reserve** means a form of **instantaneous reserve** comprising a generating capacity on a motoring hydro generation set with no water flowing through the turbine that is available following a drop in system frequency

**technical codes** means the technical codes contained in Schedule 8.3

**temporary energisation** [*Revoked*]

Clause 1.1(1) **temporary energisation**: inserted, on 29 August 2013, by clause 4(1) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

Clause 1.1(1) **temporary energisation**: revoked, on 5 October 2017, by clause 4(60) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**term**, for the purposes of subpart 5 of Part 13, means the term of a **risk management contract**, being the period between the **effective date** and the **end date**

**test facility** means a device that permits access to voltage and current circuits for testing purposes while the **metering installation** is in normal service

**time block** means a block of **trading periods** either from 1 to 16 (inclusive) or from 17 to 48 (inclusive) in each **trading day**. On the day on which **New Zealand daylight time** begins **time block** means a block of **trading periods** either from 1 to 14 (inclusive) or from 15 to 46 (inclusive). On the day on which **New Zealand daylight time** ends, **time block** means a block of **trading periods** either from 1 to 18 (inclusive) or from 19 to 50 (inclusive)

**total auction revenue** means, for each **auction**, the aggregate of all amounts owing by all **generators** in the relevant **time block**

Clause 1.1(1) **total auction revenue**: amended, on 24 March 2015, by clause 4(1)(u) of the Electricity Industry Participation (Settlement and Prudential Security) Code Amendment 2013.

**traceable** means having the property of **traceability**

**traceability** is the property of the result of a measurement whereby it can be related to the SI units of measurement through an unbroken chain of comparisons, each with a stated **uncertainty**

**trade date**, for the purposes of subpart 5 of Part 13, means the date on which legally binding rights and obligations are created between the **parties** to a **risk management contract**

**trader** means a **retailer** or a **generator** or a **purchaser** who—

- (a) buys **electricity** from the **clearing manager**; or
- (b) sells **electricity** to the **clearing manager**; or
- (c) enters into an arrangement with another **retailer** or **generator** or **purchaser** to buy or sell contracts (or parts of contracts) for **electricity** for the purposes of this Code

Clause 1.1(1) **trader**: amended, on 29 August 2013, by clause 4(2)(u) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**trading day** means the period from 0000 hours until 2400 hours on any day

**trading period** means a period of 30 minutes ending on each hour or 30 minutes past each hour on any **trading day**

**trading rights** means, in relation to a **generator** or a **purchaser**, the rights conferred on the **generator** or **purchaser** by this Code in relation to the trading of **electricity**

**transfer** means transfer, sell, assign or otherwise dispose of an ownership interest

**transformer branch** means a **branch** that contains a transformer

**transmission alternative** *[Revoked]*

Clause 1.1(1) **transmission alternative**: amended, on 21 September 2012, by clause 4(9) of the Electricity Industry Participation (Minor Amendments) Code Amendment 2012.

Clause 1.1(1) **transmission alternative**: revoked, on 15 May 2014, by clause 4(7)(a) of the Electricity Industry Participation (Minor Code Amendments) Code Amendment 2014.

**transmission agreement** means an agreement for connection and/or use of the **grid** under subpart 2 of Part 12 (including, if relevant, an agreement for investment in the **grid**)

Clause 1.1(1) **transmission agreement**: amended, on 23 February 2015, by clause 75 of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.

Clause 1.1(1) **transmission agreement**: amended, on 5 October 2017, by clause 4(58) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**transmission alternative** means an alternative to investment in the **grid**, including investment in local generation, energy efficiency, demand-side management and **distribution network** augmentation set out in Part 12

Clause 1.1(1) **transmission alternative**: inserted, on 15 May 2014, by clause 4(7)(b) of the Electricity Industry Participation (Minor Code Amendments) Code Amendment 2014.

**transmission pricing methodology** means the pricing methodology developed in accordance with subpart 4 of Part 12

**transmission security constraint** means a flow limit covered by clause 15(d)(i) or (iii) of Schedule 13.3, including any adjustments that have been made in accordance with clause 13(2)(d) and (f) of Schedule 13.3, but excluding a flow limit set in relation to the **HVDC link**

**Transpower** means Transpower New Zealand Limited

**type A co-generator** means the owner of a **type A industrial co-generating station**, in its capacity as owner of that **industrial co-generating station**

Clause 1.1(1) **type A co-generator**: inserted, on 27 May 2015, by clause 4(5) of the Electricity Industry Participation Code Amendment (Industrial Co-generation Dispatch Arrangements) 2015.

**type A industrial co-generating station** means an **industrial co-generating station** approved by the **Authority** under clause 8(1)(a)(i) of Schedule 13.4

Clause 1.1(1) **type A industrial co-generating station**: inserted, on 27 May 2015, by clause 4(5) of the Electricity Industry Participation Code Amendment (Industrial Co-generation Dispatch Arrangements) 2015.

**type B co-generator** means the owner of a **type B industrial co-generating station**, in its capacity as owner of that **industrial co-generating station**

Clause 1.1(1) **type B co-generator**: inserted, on 27 May 2015, by clause 4(5) of the Electricity Industry Participation Code Amendment (Industrial Co-generation Dispatch Arrangements) 2015.

**type B industrial co-generating station** means an **industrial co-generating station** approved by the **Authority** under clause 8(1)(a)(ii) of Schedule 13.4

Clause 1.1(1) **type B industrial co-generating station**: inserted, on 27 May 2015, by clause 4(5) of the Electricity Industry Participation Code Amendment (Industrial Co-generation Dispatch Arrangements) 2015.

**type-testing** means subjecting a sample or samples of a device to testing by an **approved test laboratory** accredited for the appropriate form of **type-testing** to verify compliance of that device with a prescribed standard or defined requirements, and **type-test** and **type-tested** have corresponding meaning

**unacceptable overloading** means that 1 or more **grid assets** exceed their stated capability, as set out in the **asset capability statements** for those **grid assets**, for the

prevailing conditions, including without limitation ambient and seasonal temperature, pre-fault loading and time dependent loading cycles

**unaccounted for electricity** and **UFE** mean, for any **balancing area**, the quantity of **electricity**, as calculated per **trading period** by the **reconciliation manager** under clause 16 of Schedule 15.4.

**unacceptable voltage conditions** means voltages on the **grid** outside the limits specified in Part 8 of this Code

**uncertainty** means a parameter associated with the result of a measurement that characterises the dispersion of the values that could reasonably be attributed to the quantity being measured, and must be determined to a confidence level of 95% or greater unless otherwise specifically stated

**unconstrained cleared offer price** means the highest amount in dollars and cents per **MWh** specified for a **grid injection point** or a **grid exit point** in an **offer** that is—

- (a) provided to the **pricing manager** in accordance with clause 13.63; and
- (b) less than or equal to the price for **electricity** at that **grid injection point** or **grid exit point** calculated by the **software** used by the **pricing manager** to calculate **provisional prices** and **final prices**

**under-frequency event** means—

- (a) an interruption or reduction of **electricity** injected into the **grid**; or
- (b) an interruption or reduction of **electricity** injected from the **HVDC link** into the South Island **HVDC injection point** or the North Island **HVDC injection point**—

if there is, within any 60 second period, an aggregate loss of **injection of electricity** in excess of 60 **MW** (being the aggregate of the net reductions in the **injection of electricity** (expressed in **MW**) experienced at **grid injection points** and **HVDC injection points** by reason of paragraph (a) or (b)), and such loss causes the frequency on the **grid** (or any part of the **grid**) to fall below 49.25 Hz (as determined by **system operator** frequency logging)

**under-frequency limit** means the minimum frequency of 48hz for a contingent event

**undesirable trading situation** means any situation—

- (a) that threatens, or may threaten, confidence in, or the integrity of, the **wholesale market**; and
- (b) that, in the reasonable opinion of the **Authority**, cannot satisfactorily be resolved by any other mechanism available under this Code (but for the purposes of this paragraph a proceeding for a breach of clause 13.5A is not to be regarded as another mechanism for satisfactory resolution of a situation)

Clause 1.1(1) **undesirable trading situation**: substituted, on 18 July 2013, by clause 4(1) of the Electricity Industry Participation (Undesirable Trading Situation) Code Amendment 2013.

Clause 1.1(1) **undesirable trading situation**: amended, on 17 July 2014, by clause 4(2) of the Electricity Industry Participation Code Amendment (Pivotal Supply) 2014.

**unit cost** means the quantity calculated by dividing the product of the **consumer's half hour** consumption and the corresponding **half hour** prices over a defined time period



by the sum of the **consumer's half hour** consumption over the same period of time (note that the **half hour** prices are based on the prices for trading at the **grid exit point** supplying energy to the **consumer**)

**unmetered load** means **electricity** consumed that is not directly recorded using a **meter**, but is calculated or estimated in accordance with this Code, and includes **shared unmetered load** and **distributed unmetered load**

**unoffered generation** means **electricity** supplied from a **generating** station for which an **offer** has not been made in accordance with clause 13.25, but which is purchased by the **clearing manager**

**unplanned interruption**, for the purposes of Part 12, means an **interruption** caused by an **unplanned outage**

**unplanned outage**, for the purposes of Part 12, means an **outage** not planned in accordance with the planning requirements set out in the **Outage Protocol**

**use-of-system agreement** means an agreement between a **distributor** and a **trader** that allows the **trader** to trade on the **distributor's local network** or **embedded network**  
Clause 1.1(1) **use-of-system agreement**: inserted, on 1 December 2011, by clause 4(a) of the Electricity Industry Participation Code (Distributor Use-of-System Agreements and Distributor Tariffs) Amendment 2011.  
Clause 1.1(1) **use-of-system agreement**: amended, on 1 February 2016, by clause 4(17) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2015.

**validated meter reading** means a **meter reading** that has passed a **reconciliation participant's** validation process in accordance with clauses 16 and 17 of Schedule 15.2

**value of expected unserved energy** means the value of any **expected unserved energy** that applies under clause 4 of Schedule 12.2 or clause 12.39  
Clause 1.1(1) **value of expected unserved energy**: amended, on 1 February 2016, by clause 4(18) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2015.

**verification notice**, for the purposes of subpart 5 of Part 13, means the notice provided by the **other party** in accordance with clause 13.226(2)(b) or (c)

**voltage support** means an **ancillary service** comprising **reactive power injection** to the power system to boost voltage at the point of injection

**volume information** means the information describing the quantity of **electricity** generated, conveyed, or consumed that is calculated or estimated from **raw meter data** and supporting data, and in the case of **unmetered load**, calculated in accordance with this Code

**washup** means the correction procedure followed as set out in subpart 6 of Part 14 if incorrect information, including **volume information**, has been used in calculating an amount owing under Part 14  
Clause 1.1(1) **washup**: amended, on 24 March 2015, by clause 4(1)(v) of the Electricity Industry Participation (Settlement and Prudential Security) Code Amendment 2013.

**wholesale market** means—

- (a) the spot market for **electricity**, including the processes for setting—
  - (i) **real time prices**:
  - (ii) **forecast prices** and **forecast reserve prices**:

- (iii) **provisional prices and provisional reserve prices:**
- (iv) **interim prices and interim reserve prices:**
- (v) **final prices and final reserve prices:**
- (b) **markets for ancillary services:**
- (c) **the hedge market for electricity, including the market for FTRs**  
Clause 1.1(1) **wholesale market**: substituted, on 18 July 2013, by clause 4(2) of the Electricity Industry Participation (Undesirable Trading Situation) Code Amendment 2013.

**wind generating station** means 1 or more **generating units** that are connected to the **grid** or to a **local network** and that inject into the **grid** or a **local network** (as the case may be) at a single point of **injection**, and for which wind is the primary power source  
Clause 1.1(1) **wind generating station**: amended, on 23 February 2015, by clause 75 of the Electricity Industry Participation Code Amendment (Distributed Generation) 2014.  
Clause 1.1(1) **wind generating station**: amended, on 5 October 2017, by clause 4(59) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**winter capacity margin** means the difference between a measure of the expected capacity and expected demand from 1 April to 31 October between 7am and 10pm, expressed as a MW margin over demand

**winter energy margin** means the difference between the expected amount of energy that can be supplied and expected demand during the period 1 April to 30 September, expressed as a percentage of expected demand

**WITS** means the system operated by the **WITS manager**  
Clause 1.1(1) **WITS**: inserted, on 5 October 2017, by clause 4(61) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**WITS manager** means the **market operation service provider** for the time being appointed as wholesale information trading system provider under this Code  
Clause 1.1(1) **WITS manager**: inserted, on 5 October 2017, by clause 4(61) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**working day** *[Revoked]*  
Clause 1.1(1) **working day**: revoked, on 5 October 2017, by clause 4(60) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**working standard** means a measuring instrument that has been **calibrated** by an **approved calibration laboratory** or an **ATH**, that is used routinely for the **calibration of metering installations and metering components**  
Clause 1.1(1) **working standard**: amended, on 29 August 2013, by clause 4(2)(v) of the Electricity Industry Participation (Metering Arrangements) Code Amendment 2011.

**works** has the meaning given to it in section 5 of the **Act**

**year** *[Revoked]*  
Clause 1.1(1) **year**: revoked, on 5 October 2017, by clause 4(60) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

- zone** means the following **points of connection**:
- (a) zone 1: all **points of connection** to the **grid** in the North Island on circuits north of Huntly (excluding the Thames Valley spur):
  - (b) zone 2: all **points of connection** to the **grid** in the North Island not in zone 1:
  - (c) zone 3: all **points of connection** to the **grid** in the South Island on circuits north

- of (and not including) Islington, Coleridge, Hororata and Papanui:
- (d) zone 4: all **points of connection** to the **grid** in the South Island not in zone 3
- (2) Any term that is defined in the **Act** and used, but not defined in this Code, has the same meaning as in the **Act**.
- Compare: Electricity Governance Rules 2003 rule 1 part A

## 1.2 General principles of construction

In this Code—

- (a) a **participant** who carries on the functions or **business** of a **generator**, a **purchaser**, a **distributor**, a **grid owner** or a **market operation service provider** is, for the purpose of this Code, to be treated as a separate person for each such function or **business**, notwithstanding that at law all or any of the functions or **businesses** may be carried on by the same person; and
- (b) for the purpose of the arrangements expressed in this Code as to the supply and conveyance of **electricity** by a **generator** or a **purchaser** to another **generator** or **purchaser**, the supply and conveyance is deemed to have been made, notwithstanding that the physical flow of **electricity** from **generators** to **consumers** will not necessarily correspond with the contractual supply of **electricity** from **generators** to **purchasers**.

Compare: Electricity Governance Rules 2003 rule 2 part A

## 1.3 Special definition of “related”

For the purposes of this Code a person (the “first person”) is deemed to be related to another person (the “second person”) if the first person is related to the second person by reason of any domestic or **business** relationship (other than because the second person is a customer of the first person), such that the first person can reasonably be expected to have influence over the second person’s judgment in trading or investment matters, or to be consulted by the second person before any such judgment is formed, and if the first person is deemed to be so connected, the second person is also deemed to be related to the first person. No person is deemed to be related to any other person if either person is a shareholding minister as that term is defined in section 2 of the State-Owned Enterprises Act 1986 or any other New Zealand legislation, provided that person is acting in his or her capacity as a shareholding minister.

Compare: Electricity Governance Rules 2003 rule 3 part A

Clause 1.3: amended, on 1 November 2018, by clause 4(11) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2018.

## 1.4 Special definition of “independent”

A person is deemed to be independent for the purposes of this Code, unless the person—

- (a) is a director or employee of a **participant**; or
- (b) has a direct or indirect financial interest, whether legal or beneficial, and whether as a shareholder, a partner or another equity holder in a **participant**, other than an interest not greater than 0.1% of the equity capital or funds of the relevant entity

- or, if that entity is a **subsidiary** of another entity, of the other entity; or
- (c) is a director or employee of a shareholder, a partner or another equity holder referred to in paragraph (b); or
  - (d) is a person who regularly or from time to time trades, directly or indirectly, under this Code.

Compare: Electricity Governance Rules 2003 rule 4 part A

### 1.5 Special definition of “purchaser” and “participant”

- (1) For any matter that relates to a **trading period** during which a notice given under subclause (2) is in effect, a reference in Parts 8, 13, 14, or 14A of this Code to a **purchaser** or a **participant** that incurs financial obligations under this Code or owes an amount to the **clearing manager**, if it refers to a **participant** who is described as participant B in the notice, must be read as a reference to the **participant** who is described as participant A in the notice.
- (2) A **participant** (participant A) may, by notice in the form set out in Schedule 1.1, give notice to the **Authority** that, from a date specified in the notice, participant A will assume all rights and obligations under Parts 8, 13, 14, and 14A of this Code of another **participant** named in the notice (participant B) in participant B’s capacity as a **purchaser** and a **participant** that incurs financial obligations under this Code or owes an amount to the **clearing manager**.
- (3) A notice given under subclause (2) takes effect from the first **trading period** on the date specified in the notice. That date must be at least 30 **business days** after the date that the notice is given to the **Authority**.
- (4) A notice given under subclause (2) does not take effect unless the **Authority** approves it by notice to the **clearing manager**, participant A, and participant B.
- (5) Participant A or participant B may revoke a notice given under subclause (2) by giving notice to the **Authority** in the form set out in Schedule 1.2.
- (6) A revocation takes effect from the first **trading period** on the date specified in the notice. That date must be at least 15 **business days** after the date that the notice is given to the **Authority**.
- (7) A notice given under subclauses (2) or (5) must be signed by both participant A and participant B.
- (8) The **Authority** must **publish** notice of—
  - (a) each approval given by the **Authority** under subclause (4); and
  - (b) each revocation under subclause (5).
- (9) If, but for this clause, a provision in Parts 8, 13, 14, or 14A of this Code would confer a right or impose an obligation on participant B in participant B’s capacity as a **purchaser** or a **participant** that incurs financial obligations under this Code or owes an amount to the **clearing manager**, that provision must be read as conferring the right or imposing the obligation on participant A in respect of every **trading period** during which a notice under subclause (2) is in effect.
- (10) Participant A is able to comply with any obligation that arises from the operation of subclause (9) by complying in aggregate with its own obligations under this Code and obligations that arise from the operation of subclause (9).

- (11) To avoid doubt, for any **trading period** during which a notice under subclause (2) is in effect, participant A is deemed to be the person who buys **electricity** from the **clearing manager** for participant B.

Compare: Electricity Governance Rules 2003 rule 5 part A

Heading of clause 1.5: amended, on 24 March 2015, by clause 4(2)(a) of the Electricity Industry Participation (Settlement and Prudential Security) Code Amendment 2013.

Clause 1.5(1): amended, on 24 March 2015, by clause 4(2)(b) of the Electricity Industry Participation (Settlement and Prudential Security) Code Amendment 2013.

Clause 1.5(2): amended, on 24 March 2015, by clause 4(2)(c) of the Electricity Industry Participation (Settlement and Prudential Security) Code Amendment 2013.

Clause 1.5(9): amended, on 24 March 2015, by clause 4(2)(d) of the Electricity Industry Participation (Settlement and Prudential Security) Code Amendment 2013.

### **1.5A Application of Code to distributors**

Except in Parts 6, 9, and 12A, nothing in this Code applies to a **distributor** in respect of its **distribution** activities that are not conducted on a **network** that is—

- (a) directly connected to the **grid**; or
- (b) indirectly connected to the **grid** through 1 or more other **networks**.

Clause 1.5A: inserted, on 1 February 2016, by clause 5 of the Electricity Industry Participation Code Amendment (Code Review Programme) 2015.

Clause 1.5A: amended, on 5 October 2017, by clause 5 of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

### **1.6 Contents tables**

The contents tables that appear at the beginning of this Code, and at the beginning of each Part, are included only to assist in reading this Code, and do not form part of it.

### **1.7 Defined terms appear in bold**

Words and phrases appear in bold in this Code only to alert the reader to the fact that they are defined in this Part.

**Schedule 1.1**

cl 1.5(2)

**Notice of assumption of rights and obligations under Parts 8, 13, 14,  
and 14A of the Electricity Industry Participation Code 2010**

Heading: amended, on 24 March 2015, by clause 5(1) of the Electricity Industry Participation (Settlement and Prudential Security) Code Amendment 2013.

1. \_\_\_\_\_ (participant A) gives notice to the Electricity Authority under clause 1.5(2) of the Electricity Industry Participation Code 2010 that it will assume all rights and obligations of \_\_\_\_\_ (participant B) under Parts 8, 13, 14, and 14A of the Electricity Industry Participation Code 2010 in participant B's capacity as a purchaser and as a participant that incurs financial obligations under that Code or owes an amount to the clearing manager.
2. The notice given under clause 1 will, if approved by the Electricity Authority under clause 1.5(4) of the Electricity Industry Participation Code 2010, take effect from the first trading period on \_\_\_\_\_ and will continue until it is revoked by participant A or participant B under clause 1.5(5) of the Electricity Industry Participation Code 2010.

**SIGNED** for and on behalf of \_\_\_\_\_ )  
\_\_\_\_\_ by \_\_\_\_\_ )  
(participant A)

\_\_\_\_\_  
[insert name]

\_\_\_\_\_  
[insert occupation]

\_\_\_\_\_  
[insert date]

**SIGNED** for and on behalf of \_\_\_\_\_ )  
\_\_\_\_\_ by \_\_\_\_\_ )  
(participant B)

\_\_\_\_\_  
[insert name]

\_\_\_\_\_  
[insert occupation]

\_\_\_\_\_  
[insert date]

Compare: Electricity Governance Rules 2003 schedule A1 part A  
Schedule 1.1: amended, on 24 March 2015, by clause 5(2) of the Electricity Industry Participation (Settlement and Prudential Security) Code Amendment 2013.

**Electricity Industry Participation Code 2010**  
**Schedule 1.1**

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Schedule 1.1: amended, on 5 October 2017, by clause 6 of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

**Schedule 1.2**

cl 1.5(5)

**Revocation of notice of assumption of rights and obligations under  
Parts 8, 13, 14, and 14A of the Electricity Industry Participation Code  
2010**

Heading: amended, on 24 March 2015, by clause 6(1) of the Electricity Industry Participation (Settlement and Prudential Security) Code Amendment 2013.

1. \_\_\_\_\_ gives notice to the Electricity Authority that the notice given to the Authority under clause 1.5(2) of the Electricity Industry Participation Code 2010 by \_\_\_\_\_ (participant A) on \_\_\_\_\_ that it would assume all rights and obligations under Parts 8, 13, 14, and 14A of the Electricity Industry Participation Code 2010 of \_\_\_\_\_ (participant B) in participant B's capacity as a purchaser and as a participant that incurs financial obligations under that Code or owes an amount to the clearing manager is revoked.
2. The revocation under clause 1 will take effect from the first trading period on \_\_\_\_\_.

**SIGNED** for and on behalf of \_\_\_\_\_ )  
\_\_\_\_\_ by \_\_\_\_\_ )  
(participant A)

\_\_\_\_\_  
[insert name]

\_\_\_\_\_  
[insert occupation]

\_\_\_\_\_  
[insert date]

**SIGNED** for and on behalf of \_\_\_\_\_ )  
\_\_\_\_\_ by \_\_\_\_\_ )  
(participant B)

\_\_\_\_\_  
[insert name]

\_\_\_\_\_  
[insert occupation]

\_\_\_\_\_  
[insert date]

Compare: Electricity Governance Rules 2003 schedule A2 part A  
Schedule 1.2: amended, on 24 March 2015, by clause 6(2) of the Electricity Industry Participation (Settlement and Prudential Security) Code Amendment 2013.



**Electricity Industry Participation Code 2010**  
**Schedule 1.1**

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Schedule 1.2: amended, on 5 October 2017, by clause 7 of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.