

Electricity Industry Participation Code 2010

Part 14 Clearing and settlement

Part 14: substituted, on 24 March 2015, by clause 20 of the Electricity Industry Participation (Settlement and Prudential Security) Code Amendment 2013.

Contents

14.1	Contents of this Part
14.1A	Clearing manager may require additional information
	Subpart 1—Sale and purchase of electricity
14.2	Sale and purchase of electricity
14.3	Sale by generators with point of connection to grid
14.4	Sale by generators with point of connection to local network or embedded network
14.5	On sale by participants
14.6	Purchase of offtake through point of connection to grid
14.7	Purchase of offtake through local network by embedded generator
	Subpart 2—Hedge settlement agreements
14.8	Hedge settlement agreement lodgement
14.9	Cancellation of hedge settlement agreement
	Subpart 3—Amounts owing
14.10	Amounts owing for electricity
14.11	Amounts owing for constrained off compensation and constrained on compensation
14.12	Amounts owing for washup amounts
14.13	Amounts owing for auction revenue
14.14	Amounts owing for ancillary services
14.14A	<i>[Revoked]</i>
14.15	Amounts owing for hedge settlement agreements
14.16	Calculation of loss and constraint excess
14.17	Amounts owing for FTRs
	Subpart 4—Notice of amounts owing and payable
	<i>Information about amounts owing and payable</i>
14.18	Clearing manager to advise participant of amounts owing and payable
14.19	Amounts owing by participant to clearing manager
14.20	Amounts owing by clearing manager to participant
14.21	Methodology for determining settlement retention amount
14.22	Calculation of amount payable
	<i>Procedure for advising participants of amounts owing and payable</i>
14.23	Procedure for advising participant of amounts owing and payable
14.24	<i>[Revoked]</i>
	<i>Disputes about amounts</i>
14.25	Participant may dispute amount

-
- 14.26 Resolution of dispute about amount
 - 14.27 Dispute about amount may be referred to Rulings Panel
 - 14.28 Correction of information about amount as result of dispute

Subpart 5—Payments

- 14.29 Payment of amounts payable
- 14.30 Prepayment of amounts payable
- 14.31 Deadlines for payments
- 14.32 Methods of payment
- 14.33 Allocation of payments
- 14.34 Payments by clearing manager
- 14.34A Payment of residual funds from operating accounts
- 14.35 Payment of residual loss and constraint excess
- 14.35A Allocation and payment of settlement residue by grid owner

Subpart 6—Washups

- 14.36 Clearing manager to conduct washups
- 14.37 Clearing manager to advise participants of washup amounts
- 14.38 Washup amounts
- 14.39 Washups for grid owners
- 14.40 Payment where no longer participant

Subpart 7—Events of default

Types of default

- 14.41 Definition of an event of default

Procedure for event of default

- 14.42 Clearing manager to advise Authority of anticipated event of default
- 14.43 Procedure upon event of default

Remedies and rights of recovery

- 14.44 Event of default gives clearing manager remedies
- 14.45 Remedies for settlement default
- 14.46 Remedies for other types of default
- 14.47 Application to take possession of FTR
- 14.48 Cancellation of hedge settlement agreement in event of default
- 14.49 Electrical disconnection of direct purchaser
- 14.50 Clearing manager to exercise rights to recover amounts outstanding
- 14.51 Participants assigned or subrogated to all clearing manager's rights of recovery
- 14.52 Rights of participants to exercise rights

Publication of information about event of default

- 14.53 Authority may publish information about event of default

Subpart 8—Payments in event of settlement default

- 14.54 Application of this subpart
- 14.55 Allocation of shortfall to settlement of general amounts and FTRs
- 14.56 Calculation of revised amount owing for general amounts
- 14.57 Calculation of revised amount owing for FTR amounts
- 14.58 Calculation of scaled amount payable
- 14.59 Calculation of revised amount payable
- 14.60 Payment of revised amount payable

-
- 14.61 Payment by participant with negative scaled amount payable
14.62 Application of payment by participant with negative scaled amount payable
14.63 Further funds paid according to priority
14.64 Interest payable to participants
14.65 Participant to remain in default

Subpart 9—Administrative obligations of clearing manager

Clearing manager operating account

- 14.66 Clearing manager to establish operating account
14.67 Payment by clearing manager

Reporting obligations of the clearing manager

- 14.68 *[Revoked]*
14.69 *[Revoked]*
14.70 *[Revoked]*
14.71 Clearing manager to make block dispatch settlement differences available
14.72 Clearing manager to make block dispatch settlement differences available
later if clearing manager's external system unavailable
14.73 Clause 14.71 applies to block dispatch groups only
14.74 No washup calculation under clause 14.71 if revised reconciliation
information is received

Notices

- 14.75 Notices

Schedule 14.1

Formula for scaling amount owing in respect of FTRs

Schedule 14.2

Consultation and approval requirements for methodologies

Schedule 14.3

Calculation of amount of loss and constraint excess to be applied to the settlement of FTRs

Schedule 14.4

Form of hedge settlement agreement

14.1 Contents of this Part

This Part provides for—

- (a) the sale and purchase of **electricity** to and from the **clearing manager**; and
- (b) the calculation and invoicing of amounts owing to and by the **clearing manager** for **electricity, ancillary services, FTRs**, and other payments that may be received or paid by the **clearing manager**; and
- (c) the settlement of amounts payable under this Part; and
- (d) processes and remedies for an **event of default**; and
- (e) obligations of the **clearing manager** in relation to clearing and settlement, including reporting obligations and requirements for the **operating account** that must be established and held by the **clearing manager**.

Clause 14.1(b): amended, on 24 March 2015, by clause 24 of the Electricity Industry Participation Code Amendment (Extended Reserve) 2014.

Clause 14.1(b): amended, on 21 December 2021, by clause 32 of the Electricity Industry Participation Code Amendment (Automatic Under-Frequency Load Shedding Systems) 2021.

14.1A Clearing manager may require additional information

- (1) The **clearing manager** may require information from a **participant** by notice to the **participant** where the information is necessary for the purpose of the **clearing manager** carrying out its role in accordance with this Code.
- (2) Information required under subclause (1) may include information that the **clearing manager** reasonably requires, in the course of carrying out its role in accordance with the Code, to comply with its obligations under legislation other than the Code.
- (3) A **participant** who receives a notice under subclause (1) must, as soon as practicable, provide the information required in the notice to the **clearing manager**.

Clause 14.1A: inserted, on 1 March 2024, by clause 90 of the Electricity Industry Participation Code Amendment (Code Review Programme) 2024.

Subpart 1—Sale and purchase of electricity

14.2 Sale and purchase of electricity

- (1) The **clearing manager** must—
 - (a) purchase **electricity** sold to the **clearing manager** in accordance with clauses 14.3 to 14.5; and
 - (b) sell **electricity** purchased from the **clearing manager** in accordance with clause 14.6.
- (2) Each **generator** must sell **electricity** in accordance with clauses 14.3 and 14.4.
- (3) Each **purchaser** must purchase **electricity** in accordance with clause 14.6.
- (4) Each **participant** that sells or purchases **electricity** through a **local network** or **embedded network** must sell and purchase the **electricity** in accordance with clauses 14.4, 14.5, and 14.7.
- (5) The amount owing for **electricity** purchased under this Part must be determined in accordance with clause 14.10.

Clause 14.2(5): amended, on 24 March 2015, by clause 4 of the Electricity Industry Participation Code Amendment (Late and Revised Data) 2015.

14.3 Sale by generators with point of connection to grid

- (1) This clause applies to each **generator** that has a **generating station** or **generating unit** with a **point of connection** to the **grid**.
- (2) Each **generator** to which this clause applies must sell to the **clearing manager** all **electricity** generated by the **generator's generating station** or **generating unit** injected through a **point of connection** to the **grid**.

14.4 Sale by generators with point of connection to local network or embedded network

- (1) This clause—
 - (a) applies to each **generator** that has an **embedded generating station**; but

- (b) does not apply to a **generator** in respect of an **embedded generating station** in relation to a **point of connection** for which a notice under clause 15.13 is in force.
- (2) Each **generator** to which this clause applies must sell all **electricity** generated by the **embedded generating station** and injected through a **point of connection** with the **local network** or **embedded network** to—
 - (a) the **clearing manager**; or
 - (b) a **participant** trading on the **local network** or **embedded network**.
- (3) Despite anything to the contrary in this Code, the relevant **point of connection** to the **grid** is, for the purposes of reconciliation under this Code, deemed to be a **grid injection point**.

Clause 14.4(1)(b): amended, on 1 November 2018, by clause 97 of the Electricity Industry Participation Code Amendment (Code Review Programme) 2018.

Clause 14.4(1)(b): amended, on 20 December 2021, by clause 63 of the Electricity Industry Participation Code Amendment (Code Review Programme) 2019.

14.5 On sale by participants

If an **embedded generator** sells **electricity** to a **participant** under clause 14.4, the **participant** must at the same time on-sell that **electricity** to the **clearing manager**.

14.6 Purchase of offtake through point of connection to grid

Each **purchaser** must purchase from the **clearing manager** the **electricity** allocated to the **purchaser** under Part 15 in respect of a **point of connection** to the **grid**.

14.7 Purchase of offtake through local network by embedded generator

- (1) A **generator** that purchases **electricity** at the same **point of connection** with a **local network** at which it sells **electricity** in accordance with clause 14.4 must purchase the **electricity** from the same **participant** to which it sold its **electricity** under clause 14.4.
- (2) The **participant** from which **electricity** is purchased under subclause (1) must sell the **electricity** as set out in this Code.

Subpart 2—Hedge settlement agreements

14.8 Hedge settlement agreement lodgement

- (1) If a **hedge settlement agreement** that is signed by 2 **participants** is submitted to the **clearing manager**, subject to subclauses (2) and (3), it is validly lodged when it is signed by the **clearing manager**.
- (2) A **hedge settlement agreement** must be in 1 of the forms set out in Schedule 14.4, or in an alternative form approved by the **Authority**.
- (3) The **clearing manager** may only sign a **hedge settlement agreement** submitted under subclause (1) if the **clearing manager** is satisfied that, after the **hedge settlement agreement** is lodged, at least 1 **participant** to the **hedge settlement agreement** will have a physical position in **MW** that is 33% or more of its **hedge settlement agreement** position in **MW** in any month calculated under paragraph (b) of subclause (4).

- (4) For the purposes of subclause (3),—
- (a) a **participant's** physical position in **MW** is the greater of the following:
 - (i) the average of the **participant's** generation in **MW** over the last 12 months based on **reconciled quantities**;
 - (ii) the average of the **participant's** generation in **MW** over the last month based on **reconciled quantities**;
 - (iii) the average of the **participant's** purchases in **MW** over the last 12 months based on **reconciled quantities**;
 - (iv) the average of the **participant's** purchases in **MW** over the last month based on **reconciled quantities**; and
 - (b) the sum of the average **MW** of each of the **participant's hedge settlement agreements** for any month to which the **hedge settlement agreement** applies.
- (5) When a **participant** submits a **hedge settlement agreement** to the **clearing manager**, the **participant** must also provide any other information relating to the **hedge settlement agreement** that the **clearing manager** requires.
- (6) A **participant** must provide information under subclause (5) in a form the **clearing manager** prescribes and specifies to **participants**.

Clause 14.8(6): amended, on 1 November 2018, by clause 98 of the Electricity Industry Participation Code Amendment (Code Review Programme) 2018.

14.9 Cancellation of hedge settlement agreement

- (1) A **hedge settlement agreement** may be cancelled only in the following situations:
- (a) if an **event of default** has occurred and is continuing in relation to a party to the **hedge settlement agreement**, in accordance with clause 14.48;
 - (b) if no **event of default** is continuing in relation to either of the parties to the **hedge settlement agreement**, in accordance with subclause (2).
- (2) A party to a **hedge settlement agreement** may cancel the **hedge settlement agreement** under subclause (1)(b) if both parties to the **hedge settlement agreement** agree in writing to the cancellation and either—
- (a) the parties give the **clearing manager** at least 90 days' notice of the cancellation; or
 - (b) the parties give the **clearing manager** less than 90 days' notice of the cancellation and the **clearing manager** agrees to the cancellation in accordance with subclause (3).
- (3) The **clearing manager** may agree to the cancellation of a **hedge settlement agreement** under subclause (2)(b) only if the **clearing manager** is satisfied that—
- (a) immediately following the cancellation of the **hedge settlement agreement**, each party will—
 - (i) continue to meet the requirements in clause 14A.4(1); or
 - (ii) meet the requirements in clause 14A.3; and
 - (b) the cancellation of the **hedge settlement agreement** is not otherwise contrary to the interests of **participants** to which an amount is payable under this Part.

- (4) In deciding whether to agree to the cancellation of a **hedge settlement agreement**, the **clearing manager** may consult with the **Authority**.

Subpart 3—Amounts owing

14.10 Amounts owing for electricity

- (1) The **clearing manager** must determine the amount owing for **electricity** purchased under clauses 14.2 to 14.7 using the following formula:

$$Q * P_f$$

where

Q is the quantity of **electricity** allocated to the **participant** for each **trading period** for each **point of connection** to the **grid** determined in accordance with **reconciliation information** and summarised and loss adjusted **dispatchable load information**

P_f is the **final price** for each relevant **point of connection** to the **grid** for each **trading period**

- (2) The **clearing manager** must determine the amount owing for **electricity** sold under clauses 14.2 to 14.7 using the following formula:

$$Q * P_f$$

where

Q is the quantity of **electricity** allocated to the **participant** for each **trading period** for each **point of connection** to the **grid** determined in accordance with **reconciliation information**

P_f is the **final price** for each relevant **point of connection** to the **grid** for each **trading period**

- (3) The quantity of **electricity** bought by a **purchaser** or sold by a **generator** under subpart 1 must be determined in accordance with clauses 15.20A to 15.26.
- (4) The **final price** of **electricity** bought by a **purchaser** or sold by a **generator** under subpart 1 must be determined in accordance with clauses 13.182A to 13.184.

Clause 14.10(1) and (2): amended, on 1 November 2022, by clause 184(1) of the Electricity Industry Participation Code Amendment (Real Time Pricing) 2022.

Clause 14.10(4): amended, on 1 November 2022, by clause 184(2) of the Electricity Industry Participation Code Amendment

(Real Time Pricing) 2022.

14.11 Amounts owing for constrained off compensation and constrained on compensation

The **clearing manager** must determine amounts owing in respect of **constrained off compensation** and **constrained on compensation** in accordance with clauses 13.192 to 13.212.

14.12 Amounts owing for washup amounts

The **clearing manager** must determine amounts owing in respect of **washup** amounts in accordance with subpart 6.

14.13 Amounts owing for auction revenue

The **clearing manager** must determine amounts owing in respect of **auction revenue** in accordance with clauses 13.110 to 13.112.

14.14 Amounts owing for ancillary services

The **clearing manager** must determine amounts owing in respect of **ancillary services** in accordance with clauses 8.6, 8.31, 8.55, and 8.68.

Clause 14.14: amended, on 24 March 2015, by clause 25 of the Electricity Industry Participation Code Amendment (Extended Reserve) 2014.

Clause 14.14: amended, on 21 December 2021, by clause 33 of the Electricity Industry Participation Code Amendment (Automatic Under-Frequency Load Shedding Systems) 2021.

14.14A [Revoked]

Clause 14.14A: inserted, on 24 March 2015, by clause 26 of the Electricity Industry Participation Code Amendment (Extended Reserve) 2014.

Clause 14.14A: revoked, on 21 December 2021, by clause 34 of the Electricity Industry Participation Code Amendment (Automatic Under-Frequency Load Shedding Systems) 2021.

14.15 Amounts owing for hedge settlement agreements

The **clearing manager** must calculate amounts owing under a **hedge settlement agreement** in respect of the current **billing period** in accordance with the terms of the **hedge settlement agreement**.

14.16 Calculation of loss and constraint excess

- (1) A **loss and constraint excess** accrues for a **billing period** when the total of the amounts owing by the **clearing manager** to **generators** for that **billing period** for the **electricity** sold and purchased in accordance with clause 14.3 is less than the total amount owing to the **clearing manager** for that **billing period** for the **electricity** sold and purchased in accordance with clause 14.6.
- (2) The **FTR manager** must—
 - (a) determine the amount of **loss and constraint excess** that must be applied to the settlement of **FTRs** in accordance with Schedule 14.3; and
 - (b) advise the **clearing manager** of that amount no later than—

-
- (i) 1600 hours on the 7th **business day** of the month following the relevant **billing period**; or
 - (ii) if **publication of final prices** is delayed for any **trading period** in the relevant **billing period**, so that **final prices** for a **trading period** in the **billing period** are **published** later than 1600 hours on the 6th **business day** of the month following the relevant **billing period**, 1 **business day** after all **final prices** for the **billing period** are **published**.
 - (3) Each **grid owner** and the **system operator** must provide information to the **FTR manager** in accordance with Schedule 14.3.
 - (4) Subject to subpart 8, the **clearing manager** must apply the amount advised under subclause (2) to the settlement of **FTRs**.
 - (5) Subject to subpart 8, if the amount that the **FTR manager** advises the **clearing manager** under subclause (2) exceeds the amount of the **loss and constraint excess** for the **billing period**, the **clearing manager** must apply all of the **loss and constraint excess** to the settlement of **FTRs**.
 - (6) The **Authority** must advise the **clearing manager** of the proportion of the **loss and constraint excess** and **residual loss and constraint excess** owing to each **grid owner**.
 - (7) Unless the **Authority** has directed otherwise under this clause, the amount owing to each **grid owner** in the proportions advised under subclause (6) is—
 - (a) the amount of any **loss and constraint excess** less the amount to be applied to the settlement of **FTRs** under subclause (4) or (5); and
 - (b) the amount of any **residual loss and constraint excess**.

Clause 14.16(2)(b): substituted, on 24 March 2015, by clause 10 of the Electricity Industry Participation Code Amendment (Settlement and Prudential Security) 2014.

Clause 14.16(3): amended, on 1 November 2022, by clause 185 of the Electricity Industry Participation Code Amendment (Real Time Pricing) 2022.

14.17 Amounts owing for FTRs

- (1) The **clearing manager** must calculate, for each **billing period**, the amount owing—
 - (a) by a **participant** to the **clearing manager** in respect of each **FTR** for which the **participant** is registered as the holder of the **FTR**; and
 - (b) by the **clearing manager** to a **participant** in respect of each **FTR** for which the **participant** is registered as the holder of the **FTR**; and
 - (c) by a **participant** to the **clearing manager** in respect of the assignment of an **FTR** under clause 13.249(4); and
 - (d) by the **clearing manager** to a **participant** in respect of the assignment of an **FTR** under clause 13.249(7).
- (2) The amount owing by a **participant** to the **clearing manager** in respect of an **FTR** is the net amount of the **FTR acquisition cost** for the **FTR** minus the **FTR hedge value** for the **FTR**, if that net amount is positive.
- (3) The amount owing by the **clearing manager** to a **participant** in respect of an **FTR** is the net amount of the **FTR hedge value** for the **FTR** minus the **FTR acquisition cost** for the **FTR**, if that net amount is positive.
- (4) The **clearing manager** must **publish**, for each **billing period**,—

-
- (a) the amount owing by a **participant** to the **clearing manager** for each **FTR**; and
 - (b) the amount owing by the **clearing manager** to a **participant** for each **FTR**.
- (5) Subclause (6) applies if, in respect of a **billing period**, the total amount to be advised as owing by the **clearing manager** under paragraphs (b) and (d) of subclause (1) exceeds the sum of the following amounts:
- (a) the total amount to be advised as owing to the **clearing manager** under subclause (1)(a):
 - (b) any amount available under clause 13.249(6) for the settlement of **FTRs** in the **billing period**:
 - (c) the amount of the **loss and constraint excess** to be applied to the settlement of **FTRs** under clause 14.16(4) or (5).
- (6) The **clearing manager** must, in calculating the amount owing in respect of each **FTR** under paragraph (a) or (b) of subclause (1), use an amended **FTR hedge value** scaled according to the formula specified in Schedule 14.1.

Subpart 4—Notice of amounts owing and payable

Heading amended, on 1 November 2018, by clause 99 of the Electricity Industry Participation Code Amendment (Code Review Programme) 2018.

Information about amounts owing and payable

14.18 Clearing manager to advise participant of amounts owing and payable

- (1) The **clearing manager** must advise each **participant**, for which the **clearing manager** has determined that the **participant** owes or is owed an amount under subpart 3, the following:
 - (a) amounts owing by the **participant** to the **clearing manager** in accordance with clause 14.19:
 - (b) amounts owing by the **clearing manager** to the **participant** in accordance with clause 14.20:
 - (c) the amount of the settlement retention amount calculated in accordance with the methodology **published** by the **clearing manager** under clause 14.21:
 - (d) any amount payable by the **participant** to the **clearing manager** and any amount payable by the **clearing manager** to the **participant** under subpart 5 in accordance with clause 14.22.
- (2) The **clearing manager** must advise each **participant** of each amount owing and each amount payable as follows:
 - (a) no later than the 9th **business day** of the month following the **billing period**; but
 - (b) if the **clearing manager** has not received any information required to determine an amount payable in respect of the prior **billing period** in time to advise each **participant** by that date,—
 - (i) if the **clearing manager** receives the information in time to advise each **participant** of each amount owing and each amount payable 2 **business days** or more before the 20th day of the month, the **clearing manager** must advise

each **participant** no later than 2 **business days** before the 20th day of the month; or

- (ii) if the **clearing manager** does not receive, or considers that it is not likely to receive, the information in time to advise each **participant** of each amount owing and each amount payable 2 **business days** before the 20th day of the month,—
 - (A) the **clearing manager** must refer the matter to the **Authority**; and
 - (B) the **Authority** must direct the **clearing manager** as to the time by which the **clearing manager** must advise each **participant** of each amount owing and each amount payable; and
 - (C) the **clearing manager** must advise each **participant** by the time directed by the **Authority**.

- (3) A **participant** must not issue a **GST** invoice for supplies of **electricity**, **ancillary services**, or **ancillary service administrative costs** to the **clearing manager**.

Clause 14.18(2): substituted, on 24 March 2015, by clause 5 of the Electricity Industry Participation Code Amendment (Late and Revised Data) 2015.

Clause 14.18(2)(b)(i) and (ii): amended, on 5 October 2017, by clause 495 of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

Clause 14.18(3): amended, on 24 March 2015, by clause 27 of the Electricity Industry Participation Code Amendment (Extended Reserve) 2014.

Clause 14.18: amended, on 21 December 2021, by clause 35 of the Electricity Industry Participation Code Amendment (Automatic Under-Frequency Load Shedding Systems) 2021.

14.19 Amounts owing by participant to clearing manager

- (1) When advising a **participant** of amounts owing under clause 14.18(1)(a), the **clearing manager** must specify any amount owing by the **participant** to the **clearing manager** for—
 - (a) the relevant **billing period**, to the extent that the **clearing manager** has received the necessary information; and
 - (b) any prior **billing period** if the **clearing manager** receives the necessary information for that **billing period** after the date that amounts owing for that **billing period** were required to be advised by the **clearing manager**.
- (2) The **clearing manager** must specify any amount owing by the **participant** to the **clearing manager** in respect of the periods referred to in subclause (1) for the following:
 - (a) **electricity** purchased under clauses 14.2 to 14.7:
 - (b) **constrained off compensation** under clause 13.201A:
 - (c) **constrained on compensation** under clause 13.212:
 - (d) a **washup** amount and any interest on that amount under subpart 6:
 - (e) **auction revenue** under clause 13.110:
 - (f) **ancillary services** under clauses 8.6, 8.31(1)(a), and 8.68:
 - (fa) *[Revoked]*
 - (g) payment of an amount under any **hedge settlement agreement**:

- (h) for each **FTR** in respect of which the **participant** is registered as the holder of the **FTR**, the net amount of the **FTR acquisition cost** for the **FTR** minus the **FTR hedge value** for the **FTR**, if that net amount is positive:
 - (i) any amount owing in respect of the assignment of any **FTR** under clause 13.249(4):
 - (j) **GST**.
- (3) The **clearing manager** must specify the sum of the amounts referred to in subclause (2).

Clause 14.19(2)(f): amended, on 24 March 2015, by clause 28(1) of the Electricity Industry Participation Code Amendment (Extended Reserve) 2014.

Clause 14.19(2)(f): amended, on 21 December 2021, by clause 36(1) of the Electricity Industry Participation Code Amendment (Automatic Under-Frequency Load Shedding Systems) 2021.

Clause 14.19(2)(fa): inserted, on 24 March 2015, by clause 28(2) of the Electricity Industry Participation Code Amendment (Extended Reserve) 2014.

Clause 14.19(2)(fa): revoked, on 21 December 2021, by clause 36(2) of the Electricity Industry Participation Code Amendment (Automatic Under-Frequency Load Shedding Systems) 2021.

14.20 Amounts owing by clearing manager to participant

- (1) When advising a **participant** of amounts owing under clause 14.18(1)(b), the **clearing manager** must specify any amount owing by the **clearing manager** to the **participant** for—
- (a) the relevant **billing period**, to the extent that the **clearing manager** has received the necessary information; and
 - (b) any prior **billing period** if the **clearing manager** receives the necessary information for that **billing period** after the date that amounts owing for that **billing period** were required to be advised by the **clearing manager**.
- (2) The **clearing manager** must specify any amount owing by the **clearing manager** to the **participant** in respect of the periods referred to in subclause (1) for the following:
- (a) **electricity** sold under clauses 14.2 to 14.7:
 - (b) **constrained off compensation** under clause 13.201A:
 - (c) **constrained on compensation** under clause 13.212:
 - (d) a **washup** amount and any interest on that amount under subpart 6:
 - (e) **auction revenue** under clause 13.112:
 - (f) **ancillary services** under clause 8.55(a):
 - (fa) *[Revoked]*
 - (g) payment of an amount under any **hedge settlement agreement**:
 - (h) for each **FTR** in respect of which the **participant** is registered as the holder of the **FTR**, the net amount of the **FTR hedge value** for the **FTR** minus the **FTR acquisition cost** for the **FTR**, if that net amount is positive:
 - (i) any amount owing in respect of the assignment of any **FTR** under clause 13.249(7):
 - (j) **GST**:
 - (k) **loss and constraint excess** and **residual loss and constraint excess** under clause 14.16(7).

- (3) The **clearing manager** must specify the sum of the amounts referred to in subclause (2).

Clause 14.20(2)(fa): inserted, on 24 March 2015, by clause 29 of the Electricity Industry Participation Code Amendment (Extended Reserve) 2014.

Clause 14.20(2)(fa): revoked, on 21 December 2021, by clause 37 of the Electricity Industry Participation Code Amendment (Automatic Under-Frequency Load Shedding Systems) 2021.

14.21 Methodology for determining settlement retention amount

- (1) The **clearing manager** must formulate and **publish** a methodology for determining the settlement retention amount to be advised to a **participant** in accordance with clause 14.18(1)(c).
- (2) The methodology formulated by the **clearing manager** under subclause (1) must comply with the principle that the settlement retention amount is set to ensure that the **clearing manager** has sufficient funds to pay each non-defaulting **participant** the amount payable to that **participant** under subpart 5 if both of the following occur:
- (a) a **settlement default** that results in the largest percentage reduction in payments that would be made in the absence of the settlement retention amount in respect of amounts other than **FTRs**; and
 - (b) a **settlement default** that results in the largest percentage reduction in payments that would be made in the absence of the settlement retention amount in respect of **FTRs** (other than in respect of the **residual loss and constraint excess**).
- (3) For the purposes of subclause (2), multiple **settlement defaults** by parties related in any way specified in the methodology must be treated as 1 **settlement default**.
- (4) The consultation and approval requirements set out in Schedule 14.2 apply to the methodology.

14.22 Calculation of amount payable

- (1) The amount payable by a **participant** to the **clearing manager** under clause 14.31 is determined in accordance with the following formula:

$$AP_P = \text{Max} [0, AO_P - AO_{CM} + SRA]$$

where

AP_P is the amount payable by the **participant** to the **clearing manager**

AO_P is the sum of the amounts owing by the **participant** to the **clearing manager**, calculated under clause 14.19

AO_{CM} is the sum of the amounts owing by the **clearing manager** to the **participant**, calculated under clause 14.20

SRA is the settlement retention amount, calculated in accordance with the

methodology **published** by the **clearing manager** under clause 14.21

- (2) Subject to subpart 8, the amount payable by the **clearing manager** to a **participant** in accordance with clause 14.34 is determined in accordance with the following formula:

$$AP_{CM} = AO_{CM} - AO_P + AP_P$$

where

AP_{CM} is the amount payable by the **clearing manager** to the **participant**

AO_{CM} is the sum of the amounts owing by the **clearing manager** to the **participant**, calculated under clause 14.20

AO_P is the sum of the amounts owing by the **participant** to the **clearing manager**, calculated under clause 14.19

AP_P is the amount payable under subclause (1) (if any)

Procedure for advising participants of amounts owing and payable

14.23 Procedure for advising participant of amounts owing and payable

- (1) When advising a **participant** of amounts owing and payable under this subpart, the **clearing manager** must—
- (a) submit the information to each relevant **participant** through the **clearing manager's** external system; and
 - (aa) **publish** aggregated information within one month after each **billing period**.
 - (b) *[Revoked]*
- (2) Proof of making the information available on the **clearing manager's** external system is deemed to be proof of the advice under subclause (1).

Clause 14.23(1)(a): replaced, on 5 October 2017, by clause 496(1) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

Clause 14.23(1)(a): amended, on 1 March 2024, by clause 91(1) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2024.

Clause 14.23(1)(aa): inserted, on 5 October 2017, by clause 496(1) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

Clause 14.23(1)(aa): amended, on 1 March 2024, by clause 91(2) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2024.

Clause 14.23(1)(b): revoked, on 1 March 2024, by clause 91(3) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2024.

Clause 14.23(2): amended, on 5 October 2017, by clause 496(2) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

Clause 14.23(2) amended, on 1 March 2024, by clause 91(4) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2024.

14.24 [Revoked]

Clause 14.24(1): amended, on 5 October 2017, by clause 497(1) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

Clause 14.24(2): replaced, on 5 October 2017, by clause 497(2) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

Clause 14.24(3): replaced, on 5 October 2017, by clause 497(3) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

Clause 14.24: revoked, on 1 March 2024, by clause 92 of the Electricity Industry Participation Code Amendment (Code Review Programme) 2024.

Disputes about amounts

14.25 Participant may dispute amount

- (1) A **participant** may dispute information about an amount that is provided by the **clearing manager** under this subpart by notice in writing to the **clearing manager**.
- (2) A **participant** may not—
 - (a) dispute the information under subclause (1) after the expiry of 2 years after the date that the information is provided; or
 - (b) commence a dispute under subclause (1) if the **participant** has commenced a dispute in relation to the **volume information** on which the information is based under clause 15.29, and the dispute remains unresolved.
- (3) The **clearing manager** must advise all **participants** materially affected by the dispute and the **Authority** of the dispute no later than 1 **business day** after the **clearing manager** receives notice of the dispute under subclause (1).
- (4) On receiving advice of a dispute that relates to **volume information** under subclause (3), the **Authority** may direct that no further action be taken in respect of the dispute.
- (5) If the **Authority** gives a direction under subclause (4), clauses 14.26 to 14.28 cease to apply to the dispute.
- (6) A direction under subclause (4) does not affect the validity of information provided under clause 14.26(2) or clause 14.37 before the direction was given.

Clause 14.25(2)(b): amended, on 24 March 2015, by clause 6 of the Electricity Industry Participation Code Amendment (Late and Revised Data) 2015.

Clause 14.25(3) and (4): amended, on 1 November 2018, by clause 100 of the Electricity Industry Participation Code Amendment (Code Review Programme) 2018.

14.26 Resolution of dispute about amount

- (1) The disputing **participant** and the **clearing manager** must attempt to resolve the dispute.
- (2) The **clearing manager** must revise the disputed amount and any other affected amount if, in time for the **clearing manager** to advise each **participant** of each amount owing and each amount payable 2 **business days** or more before the disputed amount is due to be paid or received by the disputing **participant**—

-
- (a) the dispute is resolved by the parties advised of the dispute agreeing that information used to determine the amount is incorrect; and
 - (b) *[Revoked]*
 - (c) the **clearing manager** has received all information necessary to revise the amount and any other affected amount (including revised **volume information** if necessary).
- (3) Subject to clause 14.28, if the **participant** and the **clearing manager** do not resolve the dispute by the time referred to in subclause (2), the disputing **participant** must pay or receive the amount in accordance with clauses 14.31 and 14.34.

Clause 14.26(2): amended, on 24 March 2015, by clause 7(1) of the Electricity Industry Participation Code Amendment (Late and Revised Data) 2015.

Clause 14.26(2)(b): revoked, on 24 March 2015, by clause 7(2) of the Electricity Industry Participation Code Amendment (Late and Revised Data) 2015.

Clause 14.26(3): amended, on 24 March 2015, by clause 7(3) of the Electricity Industry Participation Code Amendment (Late and Revised Data) 2015.

14.27 Dispute about amount may be referred to Rulings Panel

- (1) If the dispute is not resolved within 15 **business days** after the date on which the **clearing manager** received notice of the dispute under clause 14.25(1), the disputing **participant** or the **clearing manager** may refer the dispute to the **Rulings Panel** for resolution.
- (2) The **Rulings Panel** may make such determination as it thinks fit.
- (3) The **Rulings Panel** must give notice of its determination to the parties to the dispute and affected **participants**.

Clause 14.27(1): amended, on 1 November 2018, by clause 101 of the Electricity Industry Participation Code Amendment (Code Review Programme) 2018.

14.28 Correction of information about amount as result of dispute

- (1) If a dispute (other than a dispute resolved by the time referred to in clause 14.26(2)) is resolved by the parties to the dispute agreeing, or the **Rulings Panel** determining, that information used to determine the amount is incorrect, the **clearing manager** and the **reconciliation manager** must correct the information as follows:
 - (a) if the information to be corrected is **volume information**, the information must be corrected in accordance with subclause (2):
 - (b) if the information to be corrected is not **volume information**—
 - (i) the **clearing manager** must either correct the information, or advise the appropriate **market operation service provider** or the **Authority** so that the information may be corrected; and
 - (ii) if a **market operation service provider** or the **Authority** corrects the information, the **market operation service provider** or the **Authority**, as the case may be, must provide the corrected information to the **clearing manager**.
- (2) The **reconciliation manager** must correct **volume information** as follows:
 - (a) if a revised **seasonal adjustment shape** must be issued in order for the **volume information** to be corrected—

- (i) the **reconciliation manager** must provide each **reconciliation participant** whose **submission information** is required to be corrected with a revised **seasonal adjustment shape**; and
 - (ii) each **reconciliation participant** must provide corrected **submission information** to the **reconciliation manager** no later than 4 **business days** after being provided with the revised **seasonal adjustment shape**:
 - (b) if a revised **seasonal adjustment shape** is not required to be issued in order for the **volume information** to be corrected, each **reconciliation participant** whose **submission information** or **dispatchable load information** is required to be corrected must provide corrected **submission information** or **dispatchable load information** to the **reconciliation manager** no later than 4 **business days** after receiving notice of the resolution of the dispute:
 - (c) the **reconciliation manager** must provide the corrected **volume information** to the **clearing manager**.
- (3) If information is corrected under subclause (1) or (2), the **clearing manager** must advise the **Authority** and comply with any direction given by the **Authority** on the matter.
- (4) Without limiting subclause (3), a direction that the **Authority** gives under that subclause may include—
- (a) a direction to advise each **participant** of each amount owing and each amount payable by the **participant** by a date specified by the **Authority**; or
 - (b) a direction to conduct **washups** in accordance with subpart 6.

Clause 14.28(1): amended, on 24 March 2015, by clause 8(1) of the Electricity Industry Participation Code Amendment (Late and Revised Data) 2015.

Clause 14.28(2)(b): amended, on 1 November 2018, by clause 102 of the Electricity Industry Participation Code Amendment (Code Review Programme) 2018.

Clause 14.28(3): amended, on 24 March 2015, by clause 8(2) of the Electricity Industry Participation Code Amendment (Late and Revised Data) 2015.

Clause 14.28(4): inserted, on 24 March 2015, by clause 8(3) of the Electricity Industry Participation Code Amendment (Late and Revised Data) 2015.

Subpart 5—Payments

14.29 Payment of amounts payable

- (1) If the calculation under clause 14.22 provides for a **participant** to pay an amount to the **clearing manager**, the **participant** must pay that amount to the **clearing manager** in accordance with clauses 14.31 and 14.32.
- (2) If the calculation under clause 14.22 provides for the **clearing manager** to pay an amount to a **participant**, the **clearing manager** must pay that amount to the **participant** in accordance with clause 14.34.

14.30 Prepayment of amounts payable

- (1) A **participant** may elect to pay an amount to the **clearing manager** before the **participant** incurs the amount owing to the **clearing manager**.

-
- (2) If a **participant** prepays an amount to the **clearing manager** under subclause (1),—
 - (a) the **participant** must advise the **clearing manager** of 1 or more **billing periods** to which the payment relates; and
 - (b) the **clearing manager** must deduct the amount paid by the **participant** from the amount advised to the **participant** as owing by the **participant** to the **clearing manager** under subpart 4.
 - (3) Any amount paid to the **clearing manager** under this clause must not be returned to the **participant**, except as provided in subclause (4).
 - (4) If an amount prepaid by a **participant** is more than the actual amount payable by the **participant** to the **clearing manager** for the relevant **billing periods**, the **clearing manager** must—
 - (a) apply the amount to the amount payable in the next **billing period**; or
 - (b) if the **participant** requests the **clearing manager** to pay the residual amount to the **participant** and satisfies the **clearing manager** that it will continue to comply with prudential requirements in Part 14A, pay the residual amount to the **participant** in accordance with clause 14.34.
 - (5) The **clearing manager** must credit to a **participant** that has prepaid an amount under this clause all interest received by the **clearing manager** on the prepaid amount, less any applicable deduction for tax purposes.

14.31 Deadlines for payments

- (1) Subject to subclauses (3) and (4), each **participant** must pay the **clearing manager** the amount advised to the **participant** under subpart 4 as payable by the **participant** to the **clearing manager** by—
 - (a) 1300 hours on the 20th day of the month following the **billing period** in respect of which the amount was advised; or
 - (b) if that day is not a **business day**, 1300 hours on the next **business day**.
- (2) If the **clearing manager** does not advise a **participant** of an amount payable by the time specified in clause 14.18(2)(b)(i), payment may, if the **participant** so elects, be delayed for a period corresponding to the period of delay in advising the **participant** of the amount payable.
- (3) In the case of advice of an amount payable being delayed, the **clearing manager** must advise the **participant** of the new payment date.
- (4) If the **clearing manager** revises an amount advised to the **participant** 2 **business days** or more before the amount is due to be paid, the **participant** must pay the amount by the date for payment under subclause (1).

Clause 14.31(1)(a): amended, on 5 October 2017, by clause 498 of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

Clause 14.31(2): amended, on 24 March 2015, by clause 9 of the Electricity Industry Participation Code Amendment (Late and Revised Data) 2015.

14.32 Methods of payment

- (1) Subject to subclause (2), each **participant** must pay the **clearing manager** in **cleared funds** into the **operating account**.

-
- (2) A **participant** may instruct the **clearing manager** to pay all or part of an amount payable by the **participant** under clause 14.31 from a **cash deposit** held by the **clearing manager** in respect of the **participant** in accordance with clause 14A.13.
 - (3) The **clearing manager** is not required to comply with an instruction given under subclause (2) unless it is received at least 2 **business days** before the **participant** is required under clause 14.31 to pay the **clearing manager** the amount to which the instruction relates.
 - (4) However, the **participant** may request that the **clearing manager** comply with an instruction received later than provided for in subclause (3), and the **clearing manager** may agree to comply with such an instruction.

Clause 14.32(3) and (4): inserted, on 24 March 2015, by clause 11 of the Electricity Industry Participation Code Amendment (Settlement and Prudential Security) 2014.

14.33 Allocation of payments

- (1) Subject to subpart 8, the allocation by the **clearing manager** of a payment received from a **participant** under this Part must be dealt with in accordance with this clause.
- (2) The **clearing manager** must hold each amount paid into the **operating account** by or on behalf of a **participant** in payment or part payment of an amount payable under this subpart upon trust for those persons that are entitled to receive payment from the **clearing manager**.
- (3) A **participant** may not direct the **clearing manager** to apply any funds paid under this Part other than in accordance with this clause.
- (4) The **clearing manager** must separately account for any amount received under clause 14.31 in respect of an amount referred to in clause 14.19(2)(h) and (i).

14.34 Payments by clearing manager

- (1) Subject to subparts 7 and 8, the **clearing manager** must issue payment instructions to the **bank** with which each **operating account** is held by 1600 hours on the final **business day** for payment under clause 14.31, to pay each **participant** the amount advised to the **participant** under subpart 4 as payable by the **clearing manager** to the **participant**.
- (2) The **clearing manager** must pay each **participant** in **cleared funds**.
- (3) A **participant** may instruct the **clearing manager** to treat all or part of an amount payable to the **participant** under this clause as a **cash deposit** under Part 14A.
- (4) The **clearing manager** is not required to pay a **participant** under this clause if a **settlement default** is continuing in relation to the **participant**.
- (5) The **clearing manager** is not required to comply with an instruction given under subclause (3) unless it is received at least 2 **business days** before the **participant** is required under clause 14.31 to pay the **clearing manager** the amount to which the instruction relates.
- (6) However, the **participant** may request that the **clearing manager** comply with an instruction received later than provided for in subclause (5), and the **clearing manager** may agree to comply with such an instruction.

Clause 14.34(1): amended, on 1 September 2026, by clause 36(1) of the Electricity Industry Participation Code (Code Review Programme) Amendment 2026.

Clause 14.34(5) and (6): inserted, on 24 March 2015, by clause 12 of the Electricity Industry Participation Code Amendment (Settlement and Prudential Security) 2014.

14.34A Payment of residual funds from operating accounts

- (1) In this clause,—
 - (a) applicable period means the period from the last date the **clearing manager** determined the amount of residual funds to be paid to each **participant** under subclause (3), if applicable, up to the date the **clearing manager** determines the amount of residual funds to be paid to each **participant** under subclause (3);
 - (b) residual funds means any monies left in the **clearing manager's operating accounts** after all amounts owed by the **clearing manager** have been paid in accordance with this Part, less—
 - (i) any applicable deduction for tax purposes; and
 - (ii) any amounts that are allocated to be paid to **participants** in accordance with this Part that have not yet been paid; and
 - (iii) any amounts required to pay any bank fees due for the next two months for the **operating account**; and
 - (iv) any amounts required to maintain a positive balance in each **operating account** at a level that the **clearing manager** considers is reasonably prudent.
- (2) The **clearing manager** may use monies in the **operating accounts**, that are not paid or due to be paid to **participants** in accordance with this Part, to pay any bank fees due or applicable tax owing for the **operating accounts**.
- (3) The **clearing manager** will determine the amount of residual funds to be paid to each **participant** in accordance with subclause (4) as follows:
 - (a) by determining the amount of residual funds available in its **operating accounts**;
 - (b) by identifying the **participants** that the **clearing manager** has paid in accordance with clause 14.20(2)(a), other than **grid owners**, in the applicable period;
 - (c) by allocating the residual funds available to the **participants** identified under paragraph (b), in direct proportion to the amount the **clearing manager** has paid each **participant** in the applicable period compared to the total amount the **clearing manager** has paid all **participants** in accordance with clause 14.20(2)(a), other than **grid owners**, in that period;
 - (d) by deducting, from any residual funds allocated to a defaulting **participant** under paragraph (c), any amount the **clearing manager** sets-off against the unpaid amount payable by the defaulting **participant** to the **clearing manager** under clause 14.44(1)(c);
 - (e) by rounding down the amount allocated to each **participant** to the nearest cent.
- (4) At least once in each six-month period, but no later than 1600 hours on the final **business day** in the months of March and September, the **clearing manager** must—
 - (a) advise each **participant** that the **clearing manager** has paid in accordance with clause 14.20(2)(a) in the **applicable period**, other than **grid owners**, of the

amount of residual funds to be paid to that **participant**, as determined under subclause (3); and

- (b) pay the residual funds to each **participant** in accordance with subclause (3).

Clause 14.34A: inserted, on 1 March 2024, by clause 93 of the Electricity Industry Participation Code Amendment (Code Review Programme) 2024.

14.35 Payment of residual loss and constraint excess

Each **grid owner** must treat **residual loss and constraint excess** paid to it under this Part as **loss and constraint excess**.

14.35A Allocation and payment of settlement residue by grid owner

- (1) Each **grid owner** must allocate and pay any **settlement residue** to its customers on a monthly basis in accordance with a methodology developed under subclause (2), or if the **grid owner is Transpower**, subclause (3), subject to anything to the contrary in a **transmission agreement** or agreement referred to in clause 12.49(1).
- (2) Each **grid owner** must develop a methodology for allocating **settlement residue** to its customers such that the amount allocated to any customer is in proportion to that customer's share of the total charges for using the **grid owner's** part of the **grid**.
- (3) **Transpower** must develop a methodology for allocating **settlement residue** to its customers such that the amount to be allocated to any customer is calculated by—
 - (a) dividing the **settlement residue** into portions related to—
 - (i) each connection asset; and
 - (ii) the interconnection assets in each modelled region under the simple Method; and
 - (b) allocating **settlement residue** related to each connection asset to the **designated transmission customers** connected to it; and
 - (c) allocating the **settlement residue** related to each modelled region under the simple method to the beneficiaries of transmission investments in the modelled region under the simple method.
- (4) A **grid owner** may adjust any payment made under subclause (1) to correct for a previous overpayment or underpayment under that subclause.
- (5) A payment required under subclause (1) may be met by way of a credit against any amount owed to the **grid owner** by the customer.
- (6) **Transpower** must disclose monthly to a **distributor** the following information about any payment made to the **distributor** under subclause (1)—
 - (a) the **connection location** it relates to; and
 - (b) where applicable, whether it relates to **offtake** or **grid injection**.
- (7) In subclause (3)—
 - (a) “beneficiaries”, “connection asset”, “interconnection asset”, “modelled region”, “simple method” and “transmission investments” have the meanings set out in the **transmission pricing methodology**; and
 - (b) whether a **designated transmission customer** is “connected to” a connection asset is determined under the **transmission pricing methodology**.

- (8) This clause applies to **settlement residue** paid to a **grid owner** in respect of any **trading period** on or after 1 April 2023.

Clause 14.35A: inserted, on 1 April 2023, by clause 9 of the Electricity Industry Participation Code Amendment (Settlement Residual Allocation Methodology) 2022.

Clause 14.35A(1): amended, on 1 October 2023, by clause 39 of the Electricity Industry Participation Code Amendment (Default Transmission Agreement) 2023.

Subpart 6—Washups

14.36 Clearing manager to conduct washups

- (1) If the **clearing manager** receives corrected information in accordance with clauses 8.68, 8.69, 15.20C(b), 15.26(4), or clause 28 of Schedule 15.4, it must conduct **washups** and advise **participants** of amounts owing in accordance with this subpart.
- (2) Subclause (1) does not apply to **hedge settlement agreements** that are submitted to the **clearing manager** in the form set out in Form 4 in Schedule 14.4.

Clause 14.36: amended, on 24 March 2015, by clause 10 of the Electricity Industry Participation Code Amendment (Late and Revised Data) 2015.

Clause 14.36(2): inserted, on 1 January 2026, by clause 4 of the Electricity Industry Participation Code Amendment (Clearing Manager to Settle Fixed Price Variable Volume Hedges) 2025.

14.37 Clearing manager to advise participants of washup amounts

The **clearing manager** must advise relevant **participants** of amounts owing in respect of **washup** amounts in accordance with subpart 4 and clauses 14.38 to 14.40, except that the **clearing manager** must, if requested by a **participant** affected by the **washup**, issue corrected information covered by the **washup** to the **participant**.

14.38 Washup amounts

- (1) All **washup** amounts and interest accrued in accordance with subclause (2) must be expressed as an amount owing by the **participant** to the **clearing manager** or an amount owing by the **clearing manager** to the **participant** in respect of the current **billing period**.
- (2) Daily interest (less any deduction for resident withholding tax) on the **washup** amount, calculated at the **bank bill bid rate**, accrues from the date that payment of the amount based on the incorrect information to which the **washup** relates was due as set out in clauses 14.31 and 14.34 (as applicable) until the date of advice of the revised **washup** amount in accordance with clause 14.18, and must be compounded at the end of each calendar month.

14.39 Washups for grid owners

If a **washup** has occurred due to incorrect **consumption information** being used to determine amounts owing in accordance with subpart 4 that affects **grid owners**, the **clearing manager** must credit or debit a **washup** amount to or from each **grid owner** as follows:

- (a) if a **grid owner's washup** amount is a credit, the **clearing manager** must add the credit to any amount owing to the **grid owner** in accordance with clause 14.16(7)

in respect of the current **billing period**:

- (b) if a **grid owner's washup** amount is a debit, the **clearing manager** must subtract the debit from any amount owing to the **grid owner** in accordance with clause 14.16(7) in respect of the current **billing period**:
- (c) if the **washup** amount is greater than the amount owing, the **clearing manager** must advise the **grid owner** of any amount owing for the **washup** amount concurrently with advising **participants** of any amount owing under clause 14.18, and payment of the **washup** amount must be made by the **grid owner** by the time for payment set out in clause 14.31:
- (d) daily interest (less any deduction for resident withholding tax) on the **washup** amount, calculated at the **bank bill bid rate**, must be debited or credited (as the case may be) to the amount owing to the **grid owner** in accordance with clause 14.16(7), and accrues from the date that payment based on the incorrect information to which the **washup** relates was made until the date of advice in accordance with clause 14.18 resulting in the **grid owner's washup** amount, and must be compounded at the end of each calendar month.

14.40 Payment where no longer participant

- (1) Despite clauses 14.38 and 14.39, if a **washup** amount affects a person that is no longer a **participant**, the **clearing manager** must advise the person of the **washup** amount owing and payable in accordance with clauses 14.31 and 14.32.
- (2) The person remains liable for outstanding obligations in accordance with section 30(3) of the **Act**.
- (3) Daily interest (less any deduction for resident withholding tax) on the **washup** amount, calculated at the **bank bill bid rate**, must be added to the **washup** amount and accrues from the date that payment of the amount based on the incorrect information to which the **washup** relates was due as set out in 14.31 and 14.34 (as applicable) until the date of advice of the revised **washup** amount in accordance with clause 14.18, and must be compounded at the end of each calendar month.

Subpart 7—Events of default

Types of default

14.41 Definition of an event of default

- (1) Each of the following events constitutes an **event of default**:
 - (a) failure of a **participant** to provide security for the minimum amount required in accordance with clause 14A.6:
 - (b) a **settlement default**:
 - (c) any action taken for, or with a view to, the declaration of a **participant** that is required to comply with Part 14A as a corporation at risk under the Corporations (Investigation and Management) Act 1989:

- (d) appointment of a statutory manager in respect of **participant** that is required to comply with Part 14A under the Corporations (Investigation and Management) Act 1989 (or a recommendation or submission is made by a person to the Financial Markets Authority supporting such an appointment);
 - (e) appointment of a person under section 19 of the Corporations (Investigation and Management) Act 1989 to investigate the affairs or run the **business** of a **participant** that is required to comply with Part 14A:
 - (f) if a **participant** that is required to comply with Part 14A is (or admits that it is or is deemed under any applicable law to be) unable to pay its debts as they fall due or is otherwise insolvent, or stops or suspends, or a moratorium is declared on, payment of its indebtedness generally, or makes or commences negotiations or takes any other steps with a view to making any assignment or composition with, or for the benefit of, its creditors, or any other arrangement for the rescheduling of its indebtedness or otherwise with a view to avoiding, or in expectation of its inability to pay, its debts:
 - (g) a holder of a security interest or other encumbrancer taking possession of, or a receiver, manager, receiver and manager, liquidator, provisional liquidator, trustee, statutory or official manager or inspector, administrator or similar officer being appointed in respect of the whole or any part of the assets of a **participant** that is required to comply with Part 14A or if the **participant** requests that such an appointment be made:
 - (h) termination of a **trader's distributor agreement** with a **distributor** because of a **serious financial breach (distributor/trader)** if—
 - (i) the **trader** continues to have a customer or customers purchasing **electricity** from the **trader** on the **distributor's local network** or **embedded network**; and
 - (ii) there are no unresolved disputes between the **trader** and the **distributor** in relation to the termination; and
 - (iii) the **distributor** has not been able to remedy the situation in a reasonable time; and
 - (iv) the **distributor** gives notice to the **Authority** that this subclause applies:
 - (i) if the **clearing manager** is prohibited from establishing or continuing a business relationship with a **participant** under the Anti-Money Laundering and Countering Financing of Terrorism Act 2009:
 - (j) termination of a **trader's agreement** with a **retailer** for the supply of **electricity** at an **ICP** because of a **serious financial breach (trader/retailer)** if—
 - (i) the **retailer** continues to have a customer or customers purchasing **electricity** from the **retailer**; and
 - (ii) there are no unresolved disputes between the **trader** and the **retailer** in relation to the termination; and
 - (iii) the **trader** has not been able to remedy the situation in a reasonable time; and
 - (iv) the **trader** gives notice to the **Authority** that this subclause applies.
- (2) If a **distributor**, having given notice under subclause (1)(h)(iv), considers that an **event of default** no longer exists, the **distributor** must advise the **Authority** that it considers

that the **event of default** has been remedied.

- (3) If a **trader**, having given notice under subclause (1)(j)(iv), considers that an **event of default** no longer exists, the **trader** must advise the **Authority** that it considers that the **event of default** has been remedied.

Clause 14.41(h): inserted, on 24 March 2015, by clause 13 of the Electricity Industry Participation Code Amendment (Settlement and Prudential Security) 2014.

Clause 14.41(h): amended, on 24 March 2015, by clause 11 of the Electricity Industry Participation Code Amendment (Late and Revised Data) 2015.

Clause 14.41(1)(f): amended, on 7 September 2020, by clause 9 of the Electricity Industry Participation Code Amendment (Improving Trader Default Process) 2020.

Clause 14.41(1)(h): amended, on 20 July 2020, by clause 8 of the Electricity Industry Participation Code Amendment (Default Distributor Agreement) 2020.

Clause 14.41(1)(h): amended, on 15 May 2025, by clause 10(1) of the Electricity Industry Participation Code Amendment (Retailer Default) 2025.

Clause 14.41(1)(h)(i): amended, on 1 November 2018, by clause 103 of the Electricity Industry Participation Code Amendment (Code Review Programme) 2018.

Clause 14.41(1)(h)(i) and (iv): amended, on 1 February 2016, by clause 91(1) and (2) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2015.

Clause 14.41(1)(h)(iv): inserted, on 1 March 2024, by clause 94 of the Electricity Industry Participation Code Amendment (Code Review Programme) 2024.

Clause 14.41(1)(i): amended, on 15 May 2025, by clause 10(2) of the Electricity Industry Participation Code Amendment (Retailer Default) 2025.

Clause 14.41(1)(j): inserted, on 15 May 2025, by clause 10(3) of the Electricity Industry Participation Code Amendment (Retailer Default) 2025.

Clause 14.41(2): inserted, on 1 February 2016, by clause 91(3) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2015.

Clause 14.41(3): inserted, on 15 May 2025, by clause 10(4) of the Electricity Industry Participation Code Amendment (Retailer Default) 2025.

Procedure for event of default

14.42 Clearing manager to advise Authority of anticipated event of default

- (1) If the **clearing manager** believes that an **event of default** is likely to occur, the **clearing manager** must advise the **Authority** so that the **Authority** can consider an appropriate course of action.
- (2) If the **clearing manager**, having advised the **Authority** under subclause (1), no longer believes that an **event of default** is likely to occur, the **clearing manager** must advise the **Authority** that it no longer believes that the **event of default** is likely to occur.

Clause 14.42(2): inserted, on 1 February 2016, by clause 92 of the Electricity Industry Participation Code Amendment (Code Review Programme) 2015.

14.43 Procedure upon event of default

- (1) If an **event of default** occurs in relation to a **participant**, the **participant** must immediately advise the **clearing manager** and the **Authority** of the **event of default**.
- (2) Despite subclause (1), a **participant** is not required to advise the **clearing manager** or the **Authority** if the **participant** would breach section 36 of the Corporations

- (Investigation and Management) Act 1989 by advising the **clearing manager** or the **Authority**.
- (3) If subclause (2) applies, the **participant** must seek the consent of the Registrar of Companies or the Financial Markets Authority (as applicable) to disclose the matter to the **clearing manager** and the **Authority**.
- (3A) If a **participant**, having advised of an **event of default** under subclause (1), considers that the **event of default** has been remedied, the **participant** must advise the **clearing manager** that it considers that the **event of default** has been remedied.
- (3B) If the **clearing manager** has been advised under subclause (3A) that the **participant** considers that an **event of default** has been remedied, the **clearing manager** must—
- (a) decide whether it agrees that the **event of default** has been remedied; and
 - (b) if it agrees, advise the **Authority** that it considers that the **event of default** has been remedied.
- (4) If the **clearing manager** becomes aware that an **event of default** under paragraphs (a) to (g) of clause 14.41 has occurred and is continuing in relation to a **participant**, the **clearing manager** must—
- (a) advise the **Authority** that the **event of default** has occurred; and
 - (b) if the **participant** has not advised the **clearing manager** of the **event of default**, advise the defaulting **participant** that the **event of default** has occurred.
- (4A) If the **clearing manager**, having advised of an **event of default** under subclause (4), considers that the **event of default** has been remedied, the **clearing manager** must advise the **Authority** that it considers that the **event of default** has been remedied.
- (5) *[Revoked]*

Clause 14.43(3A) and (3B): inserted, on 1 February 2016, by clause 93(1) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2015.

Clause 14.43(4): substituted, on 24 March 2015, by clause 14(1) of the Electricity Industry Participation Code Amendment (Settlement and Prudential Security) 2014.

Clause 14.43(4A): inserted, on 1 February 2016, by clause 93(2) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2015.

Clause 14.43(5): revoked, on 24 March 2015, by clause 14(2) of the Electricity Industry Participation Code Amendment (Settlement and Prudential Security) 2014.

Remedies and rights of recovery

14.44 Event of default gives clearing manager remedies

- (1) If an **event of default** has occurred, the **clearing manager** has the power to exercise, as appropriate, all or any of the following remedies without prejudice to any other remedy it may have at law:
- (a) apply the balance of the **cash deposit** of the defaulting **participant** in accordance with clause 14A.13(a);
 - (b) make a demand under a guarantee, letter of credit, or bond provided under Part 14A in respect of the defaulting **participant**;
 - (c) if the defaulting **participant** has not paid an amount due under this Part by the due date for payment, set-off any amount payable by the **clearing manager** to the

defaulting **participant** against the unpaid amount payable by the defaulting **participant** to the **clearing manager**:

- (d) take possession of any **FTR** held by the defaulting **participant** in accordance with clause 14.47.
- (2) If an **event of default** is continuing at the expiry of the **participant's** post-default exit period registered under clause 14A.22,—
 - (a) the **clearing manager** must cancel a **hedge settlement agreement** to which the defaulting **participant** is a party in accordance with clause 14.48:
 - (b) the **Authority** may direct a **grid owner** or **distributor** to exercise any contractual right the **grid owner** or **distributor** has to **electrically disconnect** a defaulting **participant** that is a **direct purchaser** in accordance with clause 14.49.

Clause 14.44(2)(b): amended, on 5 October 2017, by clause 499 of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

14.45 Remedies for settlement default

If the **clearing manager** elects to exercise any of the remedies specified in clause 14.44 in the event of a **settlement default**, the **clearing manager** must exercise the remedies in the following order:

- (a) set-off the amount payable by the **clearing manager** to the defaulting **participant** against any amount that is payable by the defaulting **participant** to the **clearing manager** in respect of the current **billing period** or any other **billing period**:
- (b) apply the balance of the **cash deposit** of the defaulting **participant**:
- (c) if the amounts set-off or applied under paragraphs (a) and (b) are not sufficient to remedy the default,—
 - (i) make a demand under a guarantee, letter of credit, or bond provided under Part 14A in respect of the defaulting **participant**:
 - (ii) take possession of any **FTR** held by the defaulting **participant** in accordance with clause 14.47.

14.46 Remedies for other types of default

If an **event of default** other than a **settlement default** occurs in relation to a **participant**, the **clearing manager** must exercise all or any of the remedies specified in clause 14.44 to ensure that it has sufficient funds for the next settlement date.

14.47 Application to take possession of FTR

- (1) The **clearing manager** on application to the **FTR manager** is entitled to be registered on the **FTR register** as the holder of any **FTR** that the **clearing manager** takes possession of under clause 14.44(1)(d) without any further authorisation than this subclause.
- (2) If the **FTR hedge values** or estimated **FTR hedge values** of the **FTRs** held by the defaulting **participant** exceed the amount required to remedy the **event of default**, the **clearing manager** may exercise its discretion in deciding which **FTRs** are transferred to the **clearing manager**.

-
- (3) If the amount received by the **clearing manager** on settlement or sale of an **FTR** taken possession of under clause 14.44(1)(d) exceeds the amount required to remedy the **event of default**, the **clearing manager** must repay the excess amount to the defaulting **participant**.
 - (4) If the **clearing manager** holds an **FTR** in respect of which an amount would be owing if the **FTR** was held by another person, no amount is owing by the **clearing manager**.

14.48 Cancellation of hedge settlement agreement in event of default

- (1) If the defaulting **participant** is a party to a **hedge settlement agreement** and the **event of default** is continuing at the expiry of the **participant's** post-default exit period registered under clause 14A.22, the **clearing manager** must cancel the **hedge settlement agreement** on the first **business day** after the expiry of the **participant's** post-default exit period.
- (2) The **clearing manager** must give written notice to the parties to the **hedge settlement agreement** if a **hedge settlement agreement** is cancelled under this clause.

14.49 Electrical disconnection of direct purchaser

- (1) Each **direct purchaser** must at all times ensure that the terms of each of its contracts that provide for the **electrical connection** of the **direct purchaser** to a **network** permit the relevant **grid owner** or **distributor** to **electrically disconnect** the **direct purchaser** on the direction of the **Authority** if an **event of default** occurs in relation to the **direct purchaser** and is continuing at the expiry of its post-default exit period registered under clause 14A.22.
- (2) Each **grid owner** or **distributor** must at all times ensure that the terms of each of its contracts that provide for the **electrical connection** of a **direct purchaser** to a **network** permit the **grid owner** or **distributor** to **electrically disconnect** the **direct purchaser** on the direction of the **Authority** if an **event of default** occurs in relation to the **direct purchaser** and is continuing at the expiry of its post-default exit period registered under clause 14A.22.
- (3) If an **event of default** occurs in relation to a **direct purchaser** and is continuing at the expiry of the **direct purchaser's** post-default exit period registered under clause 14A.22, the **Authority** may direct a **grid owner** or **distributor** to exercise any contractual right the **grid owner** or **distributor** has to **electrically disconnect** the defaulting **direct purchaser**.
- (4) A **grid owner** or **distributor** that receives a direction under subclause (3) must comply with the direction.

Clause 14.49 Heading: amended, on 5 October 2017, by clause 500(1) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

Clause 14.49(1): amended, on 5 October 2017, by clause 500(2) and (3) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

Clause 14.49(2): amended, on 5 October 2017, by clause 500(2) and (3) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

Clause 14.49(3): amended, on 5 October 2017, by clause 500(3) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

14.50 Clearing manager to exercise rights to recover amounts outstanding

The **clearing manager** must exercise such rights, including those rights under the **Act** and this Code, as is reasonable to recover any amounts outstanding from a defaulting **participant**.

14.51 Participants assigned or subrogated to all clearing manager's rights of recovery

- (1) If a **participant's** default means that the **clearing manager** is unable to pay **participants** the full outstanding amount that would otherwise be payable to them so that any amount paid to **participants** is reduced under subpart 8, the **participants** are entitled to be assigned or subrogated to the rights of the **clearing manager** in respect of amounts payable to the **clearing manager** by the relevant defaulting **participant** which, if paid, would have been required to be held on trust by the **clearing manager** for the **participants** in accordance with this Code.
- (2) The **clearing manager** must do all that is reasonably necessary, including the granting of a power of attorney in favour of the **participants**, to assist the **participants** in the exercise of the rights.
- (3) The **participants** may, in the name of the **clearing manager** (if requested),—
 - (a) take any step to enforce repayment or exercise any other rights of the **clearing manager** in respect of money for the time being due to the **clearing manager**—
 - (i) from a defaulting **participant**; or
 - (ii) from a guarantor of the defaulting **participant**; or
 - (iii) from any person that has provided a letter of credit or bond in favour of the **clearing manager** in respect of the defaulting **participant**; or
 - (iv) in respect of any other security held by the **clearing manager** in respect of the defaulting **participant**; and
 - (b) directly or indirectly, prove in, claim, share in, or receive the benefit of any distribution, dividend, or payment arising out of—
 - (i) any insolvency of a defaulting **participant**; or
 - (ii) a guarantor of the defaulting **participant**; or
 - (iii) any person that has provided a letter of credit or bond in favour of the **clearing manager** in respect of the defaulting **participant**; or
 - (iv) any other security held by the **clearing manager** in respect of the defaulting **participant**.

14.52 Rights of participants to exercise rights

- (1) Any 1 or more **participants** is entitled to exercise rights under clause 14.51, if—
 - (a) the **clearing manager** has not, within 3 **business days** of receiving notice of, or otherwise becoming aware of, the occurrence of an **event of default**, taken any action under clauses 14.44 to 14.46; or
 - (b) the **clearing manager** has failed within 2 months of an **event of default** to collect all amounts due from the defaulting **participant**.

- (2) Nothing in subclause (1) or this subpart limits the statutory right of the **clearing manager** to apply to the Court for the appointment of a receiver, interim liquidator, or liquidator.

Publication of information about event of default

14.53 Authority may publish information about event of default

- (1) The **Authority** may **publish** information about an **event of default** if the **Authority** considers it is appropriate.
- (2) If an **event of default** results in a reduction in payments under subpart 8, the **Authority** must **publish** information about the following:
- (a) the nature of the **event of default**;
 - (b) the extent of the **event of default**;
 - (c) the identity of the defaulting **participant**.

Clause 14.53 Heading: amended, on 5 October 2017, by clause 501(1) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

Clause 14.53(1) and (2): amended, on 5 October 2017, by clause 501(2) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

Subpart 8—Payments in event of settlement default

14.54 Application of this subpart

- (1) This subpart applies if—
- (a) a **participant** commits a **settlement default**; and
 - (b) the amount received from the defaulting **participant** and recovered or set-off under clause 14.44 by 1500 hours on the final day for payment under clause 14.31 is less than the amount payable by the **participant** to the **clearing manager**.
- (2) In this subpart a reference to 1 or more general amounts is a reference to any amount that is not required to be applied to the settlement of **FTRs** or paid to the **grid owner** as **residual loss and constraint excess**.

14.55 Allocation of shortfall to settlement of general amounts and FTRs

- (1) The **clearing manager** must allocate any shortfall as a result of a **settlement default** to adjust the settlement of general amounts and **FTRs** in accordance with this clause.
- (2) The shortfall is—
- (a) the amount payable by the defaulting **participant** to the **clearing manager** under subpart 5; minus
 - (b) any amount received from the defaulting **participant** and recovered or set-off under clause 14.44.
- (3) In respect of each defaulting **participant**, the amount of the shortfall that must be allocated to adjust the settlement of general amounts is the total shortfall, less the amount of the shortfall that must be allocated to adjust the settlement of **FTRs** in accordance with subclause (4).

- (4) In respect of each defaulting **participant**, the amount of the shortfall that must be allocated to adjust the settlement of **FTRs** is determined in accordance with the following formula:

$$X_{\text{FTR}} = X_{\text{TOT}} * (O_{\text{FTR}}/O_{\text{TOT}})$$

where

X_{FTR} is the amount of the shortfall that must be allocated to adjust the settlement of **FTRs**

X_{TOT} is the amount of the total shortfall

O_{FTR} is the total amount owing by the defaulting **participant** to the **clearing manager** in respect of **FTRs** as specified under clause 14.19(2)(h) and (i)

O_{TOT} is the total amount owing by the defaulting **participant** to the **clearing manager** as specified under clause 14.19(3)

- (5) If the total amount owing by a defaulting **participant** as specified under clause 14.19(3) includes an amount owing in respect of the assignment of any **FTR** under clause 14.19(2)(i) that relates to a future **billing period** or **billing periods**, a portion of the amount of the shortfall that must be allocated to adjust the settlement of **FTRs** under subclause (4) must be allocated to each future **billing period** in accordance with the following formula:

$$F_{\text{FTR}} = X_{\text{FTR}} * (O_{\text{FTR (future)}}/O_{\text{FTR}})$$

where

F_{FTR} is the amount of the shortfall that must be allocated to adjust the settlement of **FTRs** in the future **billing period**

X_{FTR} is the amount of the shortfall that must be allocated to adjust the settlement of **FTRs**, calculated under subclause (4)

$O_{\text{FTR (future)}}$ is the amount owing by the defaulting **participant** to the **clearing manager** in respect of the assignment of an **FTR** under clause 14.19(2)(i) that relates to the future **billing period**

O_{FTR} is the total amount owing by the defaulting **participant** to the **clearing manager** in respect of **FTRs** as specified under clause 14.19(2)(h) and

(i)

Clause 14.55(4): amended, on 24 March 2015, by clause 15 of the Electricity Industry Participation Code Amendment (Settlement and Prudential Security) 2014.

14.56 Calculation of revised amount owing for general amounts

- (1) The **clearing manager** must apply any amount available for the settlement of general amounts in accordance with the following order of priority:
 - (a) to satisfy any liability to pay **GST** and other governmental charges or levies, that are payable by the **clearing manager** in respect of the amounts owing and payable under subparts 4 to 6, taking into account any **GST** input tax credits available to the **clearing manager** in respect of payments under paragraphs (b) to (e):
 - (ab) *[Revoked]*
 - (b) to satisfy any amounts owing to the **system operator** for **ancillary services** under clauses 8.6, 8.31(1)(a), and 8.55 to 8.67:
 - (i) the **system operator** for **ancillary services** under clauses 8.6, 8.31(1)(a), and 8.55 to 8.67:
 - (ii) an **extended reserve provider** for **extended reserve** under clauses 8.55(2) and 8.68(4):
 - (c) to satisfy any amount of **loss and constraint excess** to be applied to the settlement of **FTRs** under clause 14.16(4) or (5):
 - (d) to satisfy any amount owing to each **grid owner** for any **loss and constraint excess** in accordance with clause 14.16(7)(a):
 - (e) to satisfy any other general amount owing by the **clearing manager** to a **participant**.
- (2) If there is an insufficient amount available for the settlement of general amounts, the **clearing manager** must calculate the revised amounts owing by the **clearing manager** to **participants** in respect of general amounts as follows:
 - (a) first apply the full amount available to satisfy each amount owing in the order of priorities in subclause (1):
 - (b) if there is an insufficient amount to satisfy the full amount owing under any of paragraphs (a) to (e) of subclause (1), calculate the revised amount owing to each **participant** under that paragraph according to the following formula:

$$AO_{CM \text{ (revised)}} = AO_{CM \text{ (general)}} \times (A_{\text{general}}/R_{\text{general}})$$

where

$AO_{CM \text{ (revised)}}$ is the revised amount owing by the **clearing manager** to the **participant** in respect of the general amounts

$AO_{CM \text{ (general)}}$ is the amount owing by the **clearing manager** to the **participant** in respect of that **billing period** under the relevant paragraph in

subclause (1)

A_{general} is the total amount available for the settlement of amounts owing by the **clearing manager** in the relevant **billing period** under the relevant paragraph in subclause (1)

R_{general} is the sum of all amounts required to settle those amounts in respect of the **billing period**

Clause 14.56(1)(ab): inserted, on 24 March 2015, by clause 30 of the Electricity Industry Participation Code Amendment (Extended Reserve) 2014.

Clause 14.56(1)(ab): revoked, on 19 January 2017, by clause 15(1) of the Electricity Industry Participation Code Amendment (Extended Reserve) 2016.

Clause 14.56(1)(b): replaced, on 19 January 2017, by clause 15(2) of the Electricity Industry Participation Code Amendment (Extended Reserve) 2016.

Clause 14.56(1)(b): amended, on 21 December 2021, by clause 38 of the Electricity Industry Participation Code Amendment (Automatic Under-Frequency Load Shedding Systems) 2021.

14.57 Calculation of revised amount owing for FTR amounts

- (1) The **clearing manager** must apply any amount available for the settlement of **FTRs** in accordance with the following order of priority:
 - (a) to satisfy any amount owing to a **participant** in respect of **FTRs**:
 - (b) to satisfy any amount owing to each **grid owner** for any **residual loss and constraint excess** under clause 14.16(7)(b).
- (2) If there is an insufficient amount available for the settlement of **FTRs**, the **clearing manager** must calculate the revised amount owing in respect of **FTRs** as follows:
 - (a) first apply the amount available for the settlement of **FTRs** in the relevant **billing period** to satisfy each amount owing to a **participant** in respect of an **FTR**:
 - (b) if there is an amount remaining for the settlement of **FTRs** in the relevant **billing period** after the **clearing manager** has satisfied each amount owing to a **participant** in respect of an **FTR**, the **clearing manager** must allocate that amount to each **grid owner** under clause 14.16(7)(b):
 - (c) if there is an insufficient amount to satisfy each amount owing under paragraph (a), the **clearing manager** must adjust each amount owing to a **participant** in respect of an **FTR** according to the following formula:

$$AO_{\text{CM (revised)}} = AO_{\text{CM (FTRs)}} * (C_{\text{FTR}}/FTR_{\text{required}})$$

where

$AO_{\text{CM (revised)}}$ is the revised amount owing by the **clearing manager** to the **participant** in respect of **FTRs**

$AO_{CM (FTRs)}$	is the amount advised to the participant under clause 14.20 as being owing to the participant in respect of that billing period in respect of an amount specified in clause 14.20(2)(h) or (i)
C_{FTR}	is the total amount available for the settlement of FTRs in the relevant billing period
$FTR_{required}$	is the sum of all amounts required to settle FTRs in respect of the billing period

14.58 Calculation of scaled amount payable

The **clearing manager** must calculate the scaled amount payable for each **participant** to which an amount is payable by the **clearing manager** under subpart 5 in accordance with the following formula:

$$AP_{CM (scaled)} = AO_{CM (revised)} - AO_P + P$$

where

$AP_{CM (scaled)}$	is the scaled amount payable by the clearing manager to the participant
$AO_{CM (revised)}$	is the sum of the revised amounts owing by the clearing manager to the participant , calculated under clauses 14.56 and 14.57
AO_P	is the sum of the amounts owing by the participant to the clearing manager , calculated under clause 14.19
P	is any amount payable by the participant under clause 14.31 and, in the case of a defaulting participant , that amount minus any amount set-off under clause 14.44(1)(c)

Clause 14.58: amended, on 24 March 2015, by clause 16 of the Electricity Industry Participation Code Amendment (Settlement and Prudential Security) 2014.

14.59 Calculation of revised amount payable

- (1) If the application of the formula in clause 14.58 results in a scaled amount payable that is positive or 0 for every **participant** to which an amount is payable by the **clearing manager**, the scaled amount payable by the **clearing manager** to a **participant** is the revised amount payable by the **clearing manager** under clause 14.60.
- (2) *[Revoked]*

- (3) *[Revoked]*
- (4) If the application of the formula in clause 14.58 results in a scaled amount payable that is negative for 1 or more **participants** to which an amount is payable by the **clearing manager**, the **clearing manager** must calculate the revised amount payable by the **clearing manager** under clause 14.60 as follows:
- (a) for each **participant** for which the scaled amount payable is negative, set the revised amount payable for the **participant** to 0:
 - (b) for each **participant** for which the scaled amount payable is positive, calculate the revised amount payable to the **participant** in accordance with the following formula:

$$AP_{CM (revised)} = AP_{CM (scaled)} + AP_{negative} (AO_{CM (revised)} / AO_{positive})$$

where

$AP_{CM (revised)}$ is the revised amount payable by the **clearing manager** to the **participant**

$AP_{CM (scaled)}$ is the scaled amount payable by the **clearing manager** to the **participant**, calculated under clause 14.58

$AP_{negative}$ is the sum of all scaled amounts payable by the **clearing manager** to the **participant** for every **participant** for which the scaled amount payable is negative

$AO_{CM (revised)}$ is the sum of the revised amounts owing by the **clearing manager** to the **participant**, calculated under clauses 14.56 and 14.57

$AO_{positive}$ is the sum of all revised amounts owing by the **clearing manager** to a **participant** for every **participant** for which the scaled amount payable is positive

- (5) If the application of the formula in subclause (4)(b) results in a **participant** having a revised amount payable that is negative, the **clearing manager** must recalculate the revised amount payable for each **participant** under subclause (4) using the revised amount payable by the **clearing manager** to the **participant** as the scaled amount payable by the **clearing manager** to the **participant**.

Clause 14.59(2): amended, on 24 March 2015, by clause 17(1) of the Electricity Industry Participation Code Amendment (Settlement and Prudential Security) 2014.

Clause 14.59(2) and (3): revoked, on 24 March 2015, by clause 12(1) of the Electricity Industry Participation Code Amendment (Late and Revised Data) 2015.

Clause 14.59(4): amended, on 24 March 2015, by clause 12(2) of the Electricity Industry Participation Code Amendment (Late and Revised Data) 2015.

Clause 14.59(4)(b): amended, on 24 March 2015, by clause 17(2) and (3) of the Electricity Industry Participation Code Amendment (Settlement and Prudential Security) 2014.

14.60 Payment of revised amount payable

The **clearing manager** must pay each **participant** the revised amount payable in accordance with clause 14.34 as if references to the amount payable were references to the revised amount payable.

14.61 Payment by participant with negative scaled amount payable

- (1) If the application of the formula in clause 14.58 results in a scaled amount payable for a **participant** that is negative, the **participant** must pay an amount that is equal to the absolute value of the scaled amount payable in accordance with this clause.
- (2) The **clearing manager** must advise the **participant** of the amount payable.
- (3) The **participant** must pay the amount payable to the **clearing manager** by 1300 hours on the next **business day** after the day on which the **clearing manager** advises the **participant** of the amount.
- (4) Clause 14.32 applies to a payment under this clause.
- (5) If the **clearing manager** receives further funds from the defaulting **participant**, the **clearing manager** may revise or cancel the amount payable under this clause to reflect the need for the amount payable.

14.62 Application of payment by participant with negative scaled amount payable

- (1) The **clearing manager** must allocate the funds received under clause 14.61 to each **participant** for which the scaled amount payable is positive.
- (2) The amount allocated to each **participant** under this clause is the difference between the scaled amount payable and revised amount payable for the **participant**.
- (3) The **clearing manager** must pay each **participant** the amount allocated under this clause by 1600 hours on the day that funds are received under clause 14.61.
- (4) If there are insufficient funds to pay each **participant** the amount allocated under this clause, the **clearing manager** must adjust the amount payable for each **participant** based on the proportion that the amount payable by the **clearing manager** to the **participant** bears to the total amount payable to all **participants** under this clause.

14.63 Further funds paid according to priority

- (1) As further funds are received or recovered from a defaulting **participant** by the **clearing manager**, those funds must be allocated to the settlement of general amounts and **FTRs** and paid in accordance with this subpart as if—
 - (a) the further funds had been paid by the defaulting **participant** on the final day for payment under clause 14.31; but
 - (b) with the amount already paid by the **clearing manager** to a **participant** under this subpart deducted from the amount calculated as payable by the **clearing manager** to the **participant**.
- (2) If funds received or recovered by the **clearing manager** are identifiable as relating to a specific **billing period**, the **clearing manager** must apply those funds in satisfaction or

part satisfaction of amounts payable by the **clearing manager** in respect of that **billing period**.

- (3) If it is not clear to which **billing period** the funds relate, the funds must be applied in satisfaction or part satisfaction of amounts payable by the **clearing manager** in respect of the earliest **billing period** in respect of which amounts are outstanding to the extent that full payment has not been received by the relevant **participants** in respect of that **billing period**.

14.64 Interest payable to participants

- (1) If a **participant** does not receive the full amount payable under this Part and subpart 8 applies, the **clearing manager** is liable to pay interest on the unpaid amount.
- (2) The interest must be calculated daily from the date payment would otherwise have been due, at the **default interest rate**, until the date that payment is actually made by the **clearing manager** to the **participant** and compounded at the end of each calendar month.
- (3) If a **participant** has not paid any amount payable under this Part after the due date for payment, the **participant** must pay interest on the unpaid amount.
- (4) The interest must be calculated daily from the date on which the payment was due, at the **default interest rate**, until the date that full payment is received in **cleared funds** and compounded at the end of each calendar month.

Clause 14.64(1): amended, on 1 September 2026, by clause 37 of the Electricity Industry Participation Code (Code Review Programme) Amendment 2026.

14.65 Participant to remain in default

Despite anything else in this Code, the application of money under this Part that does not satisfy the full amount payable by a **participant** does not—

- (a) satisfy the obligation of the **participant** to pay the full amount payable together with the interest due on that amount to the **clearing manager** or to a **participant** acting in accordance with clause 14.51; or
- (b) prejudice any remedy available to the **clearing manager** in an **event of default** or to a **participant** under clause 14.51.

Subpart 9—Administrative obligations of clearing manager

Clearing manager operating account

14.66 Clearing manager to establish operating account

- (1) The **clearing manager** must establish, in its name, at least one **operating account** with a **bank**.
- (2) Each **operating account** must—
- (a) be held by the **clearing manager** as a trust account for the benefit of the persons who are entitled to receive payment from the **clearing manager** under this Part; and

- (b) be clearly identified as such; and
 - (c) subject to this Code, be entirely separate from the **cash deposit accounts** and any other account of the **clearing manager**.
- (3) The **clearing manager** must obtain an acknowledgement from the **bank** with which each **operating account** is held that—
- (a) the funds in that account are held on trust for the purposes set out in clause 14.33; and
 - (b) the **bank** has no right of set-off or combination in relation to the funds.

Clause 14.66(1), (2) and (3): amended, on 1 March 2024, by clause 95 of the Electricity Industry Participation Code Amendment (Code Review Programme) 2024.

14.67 Payment by clearing manager

- (1) Each payment required to be made by the **clearing manager** to the person entitled to the payment must be made by direct payment to the **bank** account that the person entitled to the payment may advise the **clearing manager** in writing from time to time.
- (2) Any payment by the **clearing manager** under this Part must be made from the **operating account**.
- (3) Except as expressly permitted by this Code or as required by law, all payments by the **clearing manager** under this Part must be free and clear of any withholding or deduction and without any set-off or counter claim.

Reporting obligations of the clearing manager

14.68 [Revoked]

Clause 14.68(1) and (2): amended, on 5 October 2017, by clause 502 of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

Clause 14.68(3)(a), (b), (c) and (d): revoked, on 1 November 2018, by clause 104(a) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2018.

Clause 14.68(3)(e): amended, on 1 November 2018, by clause 104(b) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2018.

Clause 14.68(3)(f): inserted, on 1 November 2018, by clause 104(c) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2018.

Clause 14.68: revoked, on 1 March 2024, by clause 96 of the Electricity Industry Participation Code Amendment (Code Review Programme) 2024.

14.69 [Revoked]

Clause 14.69 Heading: amended, on 5 October 2017, by clause 503(1) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

Clause 14.69(1): amended, on 5 October 2017, by clause 503(2) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

Clause 14.69(2): revoked, on 5 October 2017, by clause 503(3) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

Clause 14.69: revoked, on 1 November 2018, by clause 105 of the Electricity Industry Participation Code Amendment (Code Review Programme) 2018.

14.70 [Revoked]

Clause 14.70: revoked, on 1 November 2018, by clause 106 of the Electricity Industry Participation Code Amendment (Code Review Programme) 2018.

14.71 Clearing manager to make block dispatch settlement differences available

- (1) By 0900 hours on the 2nd **business day** after the **clearing manager** has advised **participants** of amounts owing under clause 14.18, the **clearing manager** must **publish** the following information:
 - (a) the maximum block dispatch settlement difference for each **block dispatch group** for the previous **billing period** as determined by the following formula:

$$\text{Settlement Difference} = \text{Max} \left\{ \sum_{gip=1}^{gip} P_{gip} \left\{ \text{Gen}_{gip} - \text{Set}_{gip} \left\{ \frac{\sum \text{Gen}_{gip}}{\sum \text{Set}_{gip}} \right\} \right\} \right\}$$

- (b) the total block dispatch settlement differences for each **block dispatch group** for the previous **billing period** as determined by the following formula:

$$\text{Settlement Difference} = \sum_{i=1}^i \left\{ \sum_{gip=1}^{gip} P_{gip,i} \left\{ \text{Gen}_{gip,i} - \text{Set}_{gip,i} \left\{ \frac{\sum \text{Gen}_{gip,i}}{\sum \text{Set}_{gip,i}} \right\} \right\} \right\}$$

where

P_{gip} is the **final price** at the relevant **grid injection point** for the **generating plant** or **generating unit** that forms part of the **block dispatch group** for the relevant **trading period** of the **billing period**

Gen_{gip} is the final quantity of **electricity** sold by that **generator** to the **clearing manager** at the relevant **grid injection point** for the **generating plant** or **generating unit** that forms part of the **block dispatch group**, obtained from the **reconciliation information** for the relevant **trading period** of the **billing period**

- Set_{gip} is the generation quantity at the **relevant grid injection point** for the **generating plant** or **generating unit** that forms part of the **block dispatch group** for the relevant **trading period** of the **billing period**
- $P_{gip,i}$ is the **final price** at the relevant **grid injection point** for the **generating plant** or **generating unit** that forms part of the **block dispatch group** for the relevant **trading period** of the **billing period**
- $Gen_{gip,i}$ is the final quantity of **electricity** sold by that **generator** to the **clearing manager** at the relevant **grid injection point** for the **generating plant** and **generating units** that form part of the **block dispatch group**, obtained from the **reconciliation information** for the relevant **trading period** of the **billing period**
- $Set_{gip,i}$ is the generation quantity at the relevant **grid injection point** for the **generating plant** and **generating units** that form part of the **block dispatch group** for the relevant **trading period** of the **billing period**.
- (2) For the purposes of this clause “generation quantity” means the time-weighted average quantity of **electricity** for that **generating plant** or **generating unit** for the relevant **trading period**, taking into account—
- (a) the quantity in **MW** provided to the **clearing manager** by the **system operator** in accordance with clause 13.76; and
 - (b) the ramp rate applying to the relevant **trading period** that is specified in the **offer** submitted by that **generator**.

Clause 14.71 Heading: amended, on 5 October 2017, by clause 504(1) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

Clause 14.71(1): amended, on 5 October 2017, by clause 504(2) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

Clause 14.71(2)(a): amended, on 1 November 2022, by clause 186 of the Electricity Industry Participation Code Amendment (Real Time Pricing) 2022

Clause 14.71(1): amended, on 1 March 2024, by clause 97 of the Electricity Industry Participation Code Amendment (Code Review Programme) 2024.

14.72 Clearing manager to make block dispatch settlement differences available later if clearing manager’s external system unavailable

- (1) If the **clearing manager’s** external system is unavailable to make the information set out in clause 14.71 available, the **clearing manager** is not obliged to follow any backup procedures in respect of making the information available.
- (2) The **clearing manager** must **publish** the information as soon as reasonably possible after its external system becomes available.

Clause 14.72 Heading: replaced, on 5 October 2017, by clause 505(1) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

Clause 14.72(1): amended, on 5 October 2017, by clause 505(2) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

Clause 14.72(2): replaced, on 5 October 2017, by clause 505(3) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

Clause 14.72 Heading: amended, on 1 March 2024, by clause 98(1) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2024.

Clause 14.72(1) and (2): amended, on 1 March 2024, by clause 98(2) and (3) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2024.

14.73 Clause 14.71 applies to block dispatch groups only

The calculation of the block dispatch settlement differences under clause 14.71 must be completed on a **block dispatch group** basis, even if a **block dispatch group** has been divided into **sub-block dispatch groups** during one or more **trading periods** of the relevant **billing period**.

14.74 No washup calculation under clause 14.71 if revised reconciliation information is received

Following the calculation and **publication** of the information relating to block dispatch settlement differences in a **billing period** under clause 14.71, the **clearing manager** is not required to recalculate any block dispatch settlement differences as a result of subsequently receiving revised **reconciliation information**.

Notices

14.75 Notices

- (1) Except as expressly provided in this Code, a notice or demand given or required to be given under this Part may be given by being delivered or transmitted to the intended recipient at its address or electronic address as last advised in writing to the sender and may be posted to such address by prepaid post.
- (2) Subject to subclause (3),—
 - (a) a notice or demand delivered by hand is deemed to be delivered on the date of such delivery; and
 - (b) a notice or demand delivered by post is deemed to be delivered on the 2nd **business day** following the date of posting; and
 - (c) a notice or demand made available on the **clearing manager's** external system is deemed to be delivered on the date it was made available.
- (3) Any notice or demand delivered, or deemed to be delivered, on a day that is not a **business day**, or after 1600 hours on a **business day**, is deemed to have been delivered on the next **business day**.

Clause 14.75(2)(c): amended, on 5 October 2017, by clause 506 of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

Clause 14.75(2)(c): amended, on 1 March 2024, by clause 99 of the Electricity Industry Participation Code Amendment (Code Review Programme) 2024.

Schedule 14.1

cl 14.17

Formula for scaling amount owing in respect of FTRs

1 Purpose of this Schedule

The purpose of this Schedule is to set out the formula for scaling the amount owing in respect of **FTRs** if clause 14.17(6) applies.

2 Formula

(1) The formula for scaling the **FTR hedge value** under clause 14.17(6) is as follows:

$$HV_{\text{Scaled}} = HV \times (C/D)$$

where

HV_{Scaled} is the scaled **FTR hedge value**

HV is the original **FTR hedge value** that would be owing if this subclause did not apply

C is the amount calculated in accordance with the formula in subclause (2)

D is the amount calculated in accordance with the formula in subclause (3)

(2) The value for C in the formula in subclause (1) is as follows:

$$C = LCE_{\text{FTR}} + AC_P + A_P - AC_{\text{CM}} - A_{\text{CM}}$$

where

LCE_{FTR} is the amount of the **loss and constraint excess** to be applied to the settlement of **FTRs** under clause 14.16(4) or (5)

AC_P is the sum of any **FTR acquisition costs** owing to the **clearing manager**

A_p is the sum of any amounts owing to the **clearing manager** under clause 13.249(4)

AC_{CM} is the sum of any **FTR acquisition costs** owing by the **clearing manager**

A_{CM} is the sum of any amounts owing by the **clearing manager** under clause 13.249(7)

(3) The value for D in the formula in subclause (1) is as follows:

$$D = HV_{CM} - HV_P$$

where

HV_{CM} is the sum of any **FTR hedge values** owing by the **clearing manager**

HV_P is the sum of any **FTR hedge values** owing to the **clearing manager**

Schedule 14.2

cl 14.21, 14A.5, Schedule 14A.1

Consultation and approval requirements for methodologies

1 Purpose of this Schedule

This Schedule sets out the consultation and approval requirements that apply to the following methodologies formulated and **published** by the **clearing manager**:

- (a) the methodology for determining the settlement retention amount under clause 14.21:
- (b) the methodology for determining the forward estimate of the minimum amount for which security will be required to be provided by a **participant** under clause 14A.5:
- (c) the methodology for determining the general prudential requirement under clause 8 of Schedule 14A.1:
- (d) the methodology for determining the minimum security required in respect of **FTRs** under clause 12 of Schedule 14A.1.

2 Approval of methodology

- (1) The **clearing manager** must submit to the **Authority** for approval a draft methodology.
- (2) In preparing the draft methodology, the **clearing manager** must—
 - (a) consult with persons that the **clearing manager** thinks are representative of the interests of persons likely to be substantially affected by the methodology; and
 - (b) consider submissions made on the methodology.
- (3) The **clearing manager** must provide a copy of each submission received under subclause (2) to the **Authority**.
- (4) The **Authority** must, as soon as practicable after receiving the draft methodology, by notice in writing to the **clearing manager**—
 - (a) approve the methodology; or
 - (b) decline to approve the methodology.
- (5) If the **Authority** declines to approve the draft methodology, the **Authority** must **publish** the changes that the **Authority** wishes the **clearing manager** to make to the draft methodology.

3 Consultation on proposed changes to methodology

- (1) When the **Authority publishes** the changes that the **Authority** wishes the **clearing manager** to make to the draft methodology under clause 2(5), the **Authority** must **publish** the date by which submissions on the changes must be received by the **Authority**.

- (2) Each submission on the changes to the draft methodology must be made in writing to the **Authority** and be received on or before the date specified by the **Authority** under subclause (1).
- (3) The **Authority** must—
 - (a) provide a copy of each submission received to the **clearing manager**; and
 - (b) **publish** the submissions.
- (4) The **clearing manager** may make its own submission on the changes to the draft methodology and the submissions received in relation to the changes.
- (5) The **Authority** must **publish** the **clearing manager's** submission when it is received.
- (6) The **Authority** must consider the submissions made to it on the changes to the draft methodology.
- (7) Following the consultation required by subclauses (1) to (6), the **Authority** may approve the methodology subject to the changes that the **Authority** considers appropriate being made by the **clearing manager**.

Clause 3(1): amended, on 5 October 2017, by clause 507 of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

4 Variations to methodology

- (1) A **participant** or the **Authority** may submit a proposal for a variation to the methodology.
- (2) The **clearing manager** must provide a copy of each proposed variation received from a **participant** under subclause (1) to the **Authority**.
- (3) The **clearing manager** must consider a proposed variation to the methodology submitted under subclause (1).
- (4) The **clearing manager** may submit a request for a variation to the methodology to the **Authority**.
- (5) The consultation and approval requirements under clauses 2 and 3 apply to a request for a variation submitted under subclause (4) as if references to the draft methodology were a reference to the requested variation.
- (6) If the **clearing manager** does not submit a request for a variation submitted under subclause (1) to the **Authority** under subclause (4), the **Authority** may consider the proposal and require the **clearing manager** to submit a request for a variation based on the proposal to the **Authority**, and subclause (5) applies accordingly.
- (7) The **Authority** may approve a variation requested under subclause (4) or subclause (6) without complying with the provisions referred to in subclause (5) if—
 - (a) the **Authority** considers that it is necessary or desirable in the public interest that the requested variation be made urgently; and
 - (b) the **Authority publishes** a notice of the variation and a statement of the reasons why the urgent variation is needed.
- (8) Every variation made under subclause (7) expires on the date that is 9 months after the date on which the variation is made.

Schedule 14.3

cl 14.16(2)

Calculation of amount of loss and constraint excess to be applied to the settlement of FTRs

1 Purpose

The purpose of this Schedule is to set out the formulae and process for the calculation under clause 14.16(2) of the amount of the **loss and constraint excess** to be applied to the settlement of **FTRs**.

2 Interpretation

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

AC line means any AC **branch**

balanced, in relation to an **FTR injection pattern**, means that the total positive and negative **hub injections** sum to 0. A **balanced FTR injection pattern** is consistent with a **grid** in which **losses** are not modelled

binding, in relation to a **constraint**, means that the **constraint** has a non-zero **shadow price**

branch constraint means a **constraint** in which all the **LHS** variables are branch flows

canonical form means a linear programming problem that is expressed in the following form:

maximise $c^T x$

subject to $Ax \leq b$

where

x is the vector of variables to be determined

c and b are vectors of constants

A is a matrix of coefficients

$c^T x$ is the objective function to be maximised

$Ax \leq b$ is the set of **constraints**, each row of Ax being the **LHS** of a **constraint** and each element of b being the corresponding **RHS**

Minimum **constraints** are assumed to have been multiplied through by -1 to form an equivalent maximum **constraint**

Equality **constraints** are assumed to have initially been represented by a pair of minimum and maximum **constraints** with the same **LHS** and **RHS**, and then the resulting minimum **constraint** is assumed to have been multiplied through by -1 to form an equivalent maximum **constraint**

closed, in relation to a **branch**, means that the **branch** is **electrically connected** at both ends

Clause 2(1) **closed**: amended, on 5 October 2017, by clause 508(1) of the Electricity Industry Participation Code

dispatch interval means the period, within a **trading period**, during which a **dispatch instruction** issued by the **system operator** remains in effect

Clause 2(1) **dispatch interval**: inserted, on 1 November 2022, by clause 187(1) of the Electricity Industry Participation Code Amendment (Real Time Pricing) 2022.

dispatch schedule also includes a **price-responsive schedule**, when it is used to calculate final prices in accordance with clause 13.134A.

Clause 2(1) **dispatch schedule**: inserted, on 1 November 2022, by clause 187(1) of the Electricity Industry Participation Code Amendment (Real Time Pricing) 2022.

feasible region, in relation to an n-dimensional linear programming problem, means the n-dimensional solution space filled by the set of all possible feasible solutions

final pricing schedule *[Revoked]*

Clause 2(1) **final pricing schedule**: revoked, on 1 November 2022, by clause 187(2) of the Electricity Industry Participation Code Amendment (Real Time Pricing) 2022.

FTR injection pattern means the combination of positive or negative net **hub injections** implied by a combination of **FTRs**

hub injection means the actual or notional flow of **electricity** into the **grid**, if positive, or out of the **grid**, if negative, at any **hub**

HVDC link has the same meaning as in the **model formulation**

LHS means the left hand side of a **constraint** expressed in **canonical form**

mixed constraint has the same meaning as in the **model formulation**

open, in relation to a **branch**, means that the **branch** is **electrically disconnected** at 1 or both ends

Clause 2(1) **open**: amended, on 5 October 2017, by clause 508(2) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

operational system split means an instance where a **grid owner** chooses to operate with a switch or **branch open** for reasons such as—

- (a) breaking loops that would otherwise constrain flows; or
- (b) reducing the size of the maximum fault duty that switchgear needs to withstand

RHS means the right hand side of a **constraint** when expressed in **canonical form**

scheduled, in relation to a variable, means the value of the variable in the **dispatch schedule**

Clause 2(1) **scheduled**: amended, on 1 November 2022, by clause 187(3) of the Electricity Industry Participation Code Amendment (Real Time Pricing) 2022.

shadow price, in relation to an **AC line** capacity, **branch constraint** or **mixed constraint**, means the absolute value of the shadow price in \$/MWh for the **AC line** or **constraint** reported in the **dispatch schedule**

Clause 2(1) **shadow price**: amended, on 1 November 2022, by clause 187(4) of the Electricity Industry Participation Code Amendment (Real Time Pricing) 2022.

simultaneously feasible, in relation to an **FTR injection pattern**, means that the implied flows can be carried by the transmission system, subject to the **constraints** as defined by clause 5(2).

- (2) For the purposes of this Schedule, **constraints** that are not expressed in **canonical form** in the **model formulation** must be translated into the equivalent **canonical form**.

3 Amount of loss and constraint excess to be applied to settlement of FTRs

The amount of the **loss and constraint excess** that must be applied to the settlement of **FTRs** under clause 14.16(4) is the amount calculated under clause 9(6)(b).

4 Grid owner must determine normal grid configuration

- (1) Each **grid owner** must determine a normal **grid** configuration for the **grid owner's grid**.
- (2) The normal **grid** configuration determined under subclause (1) must be a **grid** configuration with all existing **branches** and switches **closed** except where the **grid owner** has implemented **operational system splits** and the **grid owner** considers that the normal state of those **operational system splits** is for the relevant **branch** or switch to be **open**.
- (3) Each **grid owner** must provide to the **FTR manager** the information describing the normal **grid** configuration for the **grid owner's grid** determined under subclause (1).
- (4) Each **grid owner** must determine a new normal **grid** configuration for the **grid owner's grid** if the **grid owner** considers it necessary because, for example, any of the following occur:
 - (a) some **grid** equipment is **commissioned** or **decommissioned**;
 - (b) there is a change in the capacity or impedance of some **grid** equipment;

- (c) the **grid owner** considers that the normal state of any **operational system split** has changed.
- (5) Each **grid owner** must provide new information to the **FTR manager** if the **grid owner** determines a new normal **grid** configuration for the **grid owner's grid** under subclause (4), unless otherwise agreed with the **FTR manager**.

Clause 4(3) and (5): amended, on 24 March 2015, by clause 18 of the Electricity Industry Participation Code Amendment (Settlement and Prudential Security) 2014.

Clause 4(4)(a): amended, on 5 October 2017, by clause 509 of the Electricity Industry Participation Code Amendment (Code Review Programme) 2017.

5 FTR manager must determine FTR injection patterns

- (1) The **FTR manager** must determine a set of **balanced extreme FTR injection patterns**.
- (2) Each **balanced extreme FTR injection pattern** determined under subclause (1) must be **simultaneously feasible** assuming—
 - (a) the normal **grid** configuration determined under clause 4; and
 - (b) the absence of all other **grid** flows; and
 - (c) all **AC line** and **HVDC link** capacity limits applied; and
 - (d) all risk and reserve **constraints** disabled; and
 - (e) all **branch** variable **losses** set to 0; and
 - (f) all **branch** fixed **losses** set to 0.
- (3) The set of **balanced extreme FTR injection patterns** determined under subclause (1) must, in the reasonable opinion of the **FTR manager**, be the set of **FTR injection patterns** that best represents the extreme limits of the **feasible region** of **FTR injection patterns** as defined by the assumptions listed under subclause (2).
- (4) The **FTR manager** must determine a new set of **balanced extreme FTR injection patterns** if—
 - (a) a **grid owner** provides the **FTR manager** with new information under clause 4(5) that results in a change to the **feasible region** of **FTR injection patterns**; or
 - (b) there is a change to the **hubs** or set of **hubs** specified in the **FTR allocation plan**.

Clause 5(4)(a): amended, on 24 March 2015, by clause 19 of the Electricity Industry Participation Code Amendment (Settlement and Prudential Security) 2014.

6 FTR manager must determine matrix of lossless shift factors

- (1) For each **dispatch interval** of the relevant **billing period**, following the **publication** of **final prices**, the **FTR manager** must determine a matrix of lossless shift factors referenced to a set of reference **nodes**, from the inputs to the **dispatch schedule** described in clause 13.69B or clause 13.58A (as applicable), in accordance with the following:
 - (a) one reference **node** must be chosen within each electrical island;
 - (b) **nodes** are in the same electrical island if a transmission path exists between them.
- (2) The matrix of lossless shift factors determined under subclause (1) must be calculated in accordance with the following matrix formula:

$$[\text{ShiftFactor}] = [\text{AdmittancePrimitive}] \times [\text{Inc}] \times [\text{Impedance}]$$

where

- [ShiftFactor] is the m by n matrix of lossless shift factors, which defines the increment in flow in the conventional forward flow direction on any **branch** in the transmission **network** resulting from an increment in net **injection** at any **node** together with an equal decrement in net **injection** at the reference **node** in the electrical island in which the **node** resides, while neglecting the effect of **losses**
- [AdmittancePrimitive] is the m by m diagonal matrix formed from the set of m **branch** susceptances
- [Inc] is the m by n lossless **branch-node** incidence matrix, which denotes the conventional from and to **nodes** for a **branch** by matrix entries of 1 and -1 respectively
- [Impedance] is the n by n matrix formed from the inverse of [AdmittanceNodal] with the columns and rows associated with the reference **nodes** reinserted and filled with zeroes
- [AdmittanceNodal] is the $n-r$ by $n-r$ matrix obtained from [AdmittanceNodalComplete] by deleting the column and row associated with each of the reference **nodes**
- [AdmittanceNodalComplete] is the n by n matrix $= [\text{Inc}^T] \times [\text{AdmittancePrimitive}] \times [\text{Inc}]$
- [Inc^T] is the n by m matrix transpose of [Inc]
- (3) For the purposes of subclauses (1) and (2) —
- (a) the set of inter-**island HVDC links** must be replaced by a single **AC line** with a nominal susceptance value between the Benmore and Haywards HVDC terminal **nodes**, whether or not any **HVDC link** is actually in service during the relevant **dispatch interval**; and

- (b) the nominal susceptance value determined under paragraph (a) may be any suitable value that will avoid numerical difficulties; and
- (c) any switches between the Benmore HVDC terminal **node** and other Benmore **nodes** operating at the same nominal voltage that are normally **closed** must be treated as **closed**; and
- (d) any switches between the Haywards HVDC terminal **node** and other Haywards **nodes** operating at the same nominal voltage that are normally **closed** must be treated as **closed**; and
- (e) in any **dispatch interval** in which any of the **hubs** reside in different electrical islands (as defined in subclause (1)(b)), the shift factor matrix for the previous **trading period** in which all the **hubs** resided in the same electrical island must be used.

Clause 6(1), (3)(a) and (3)(e): amended, on 1 November 2022, by clause 188(1) and (2) of the Electricity Industry Participation Code Amendment (Real Time Pricing) 2022.

7 FTR manager must determine branch participation loading and constraint participation loading

- (1) For each **dispatch interval** of the relevant **billing period**, the **FTR manager** must determine a **branch** participation loading for each **AC line** k .
- (2) Each **branch** participation loading determined under subclause (1) must be calculated—
 - (a) in accordance with the following formula if the **scheduled** flow on the **AC line** is in the conventional forward flow direction:

$$\max \left(\sum_{h \in Hubs} SF_{k,h} \times Inj_{h,p} : p \in 1, \dots, P \right); \text{ and}$$

- (b) in accordance with the following formula if the **scheduled** flow on the **AC line** is in the conventional reverse flow direction:

$$- \min \left(\sum_{h \in Hubs} SF_{k,h} \times Inj_{h,p} : p \in 1, \dots, P \right)$$

where

$SF_{k,h}$ is the shift factor relating flows on **AC line** k to **injections** at **hub** h , determined under clause 6(1)

$Inj_{h,p}$ is the positive or negative **hub injection** at **hub** h in **FTR injection pattern** p in the set of P **balanced** extreme **FTR injection patterns** determined

under clause 5(1)

- (3) For each **dispatch interval** of the relevant **billing period**, for each **binding branch constraint** v involving **AC line** flows, the **FTR manager** must determine a **constraint** participation loading in accordance with the following formula:

$$\max \left(\sum_{k \in ACLineGroup_v} \sum_{h \in Hubs} weight_{k,v} \times SF_{k,h} \times Inj_{h,p} : p \in 1, \dots, P \right)$$

where

$SF_{k,h}$ and $Inj_{h,p}$ are as defined in subclause (2)

$ACLineGroup_v$ is the set of **AC lines** involved in **branch constraint** v (any **HVDC link** flow terms in the **constraint** must be excluded from this calculation)

$weight_{k,v}$ is the weight associated with **AC line** k in **branch constraint** v expressed in **canonical form**

- (4) For each **dispatch interval** of the relevant **billing period**, for each **binding mixed constraint** v (if any) involving **AC line** flow terms or **AC line** variable loss terms, the **FTR manager** must determine a **constraint** participation loading in accordance with the following formula:

$$\max \left(\sum_{k \in ACLineGroup_v} (flowweight_{k,v} \times flow_{k,p} + lossweight_{k,v} \times loss_{k,p}) : p \in 1, \dots, P \right)$$

where

$ACLineGroup_v$ is the set of **AC lines** whose flows or variable **losses** are involved in **mixed constraint** v (all other terms in the **mixed constraint** must be excluded from this calculation)

$flowweight_{k,v}$ is the weight associated with the flow on **AC line** k in **mixed constraint** v expressed in **canonical form**

$lossweight_{k,v}$ is the weight associated with the variable **losses** on **AC line** k in **mixed constraint** v expressed in **canonical form**

$flow_{k,p}$ is the flow on **AC line** k due to **FTR injection pattern** p , which equals

$$\sum_{h \in Hubs} SF_{k,h} \times Inj_{h,p}$$

$loss_{k,p}$ is the variable **losses** on **AC line** k due to $flow_{k,p}$

$SF_{k,h} \times Inj_{h,p}$ are as defined in subclause (2)

- (5) For the purposes of this clause, if **hub** h is a group of **nodes**, the positive or negative **hub injection** at **hub** h must be split into its individual nodal components in a manner consistent with the **hub** definition in the **FTR allocation plan**, and each nodal component must be treated as a separate **hub injection**.

Clause 7(1), (3) and (4): amended, on 1 November 2022, by clause 189 of the Electricity Industry Participation Code Amendment (Real Time Pricing) 2022.

8 FTR manager must assign portions of capacities

- (1) For each **dispatch interval** of the relevant **billing period**, the **FTR manager** must assign a portion of the capacity of each **AC line**, **AC line** loss curve block, **binding branch constraint RHS** and **binding mixed constraint RHS** (if any) for the purpose of determining amounts to be applied to the settlement of **FTRs** under clause 9(3) to (5).
- (2) The portion of the capacity of each **AC line** to be assigned under subclause (1) must be the minimum of—
 - (a) the line capacity applicable in the **trading period** in the **dispatch schedule** relating to the **dispatch interval**; and
 - (b) the relevant **branch** participation loading determined under clause 7(1).
- (3) The portion of the capacity of each **AC line** loss curve block to be assigned under subclause (1) must be the portion of the loss curve block that would be utilised by a flow at the level of the capacity of the associated **AC line** assigned, as determined under subclause (2), assuming that loss curve blocks are utilised in order from lowest to highest **loss factor**, in the direction of flow.
- (4) Subject to subclause (5), the portion of the capacity of each **binding branch constraint RHS** or **binding mixed constraint RHS** (if any) to be assigned under subclause (1) must be the minimum of—
 - (a) the **constraint RHS** applicable in the **trading period** in the **dispatch schedule** relating to the **dispatch interval**, minus the contribution of any **LHS** terms not involving **AC line** flows or **AC line** variable **losses**, calculated assuming the

values of the relevant variables applicable in the **trading period** in the **dispatch schedule** relating to the **dispatch interval**; and

- (b) the relevant **constraint** participation loading determined under clause 7(3) or clause 7(4).
- (5) If the capacity determined under subclause (4) for any **constraint** is negative, the capacity to be assigned for that **constraint** must be 0.

Clause 8(1): amended, on 1 November 2022, by clause 190(1) of the Electricity Industry Participation Code Amendment (Real Time Pricing) 2022.

Clause 8(2), (4)(a): amended, on 1 November 2022, by clause 190(2) of the Electricity Industry Participation Code Amendment (Real Time Pricing) 2022.

9 FTR manager must calculate amounts to be applied to settlement of FTRs

- (1) The amounts calculated under this clause must be calculated using the flow quantities, nodal prices and **shadow prices** from the **dispatch schedule** relating to each **dispatch interval**.
- (2) The HVDC **loss and constraint excess** to be applied to the settlement of **FTRs** for each **dispatch interval** of the relevant **billing period** must be calculated in accordance with the following formula:

$$\max \left(0, \sum_{n(NI)} price_n \times \left(\sum_{l \in R_{HVDC}(n)} (HVDCLinkFlow_l - HVDCLinkLosses_l) - \sum_{l \in S_{HVDC}(n)} HVDCLinkFlow_l \right) + \sum_{n(SI)} price_n \times \left(\sum_{l \in R_{HVDC}(n)} (HVDCLinkFlow_l - HVDCLinkLosses_l) - \sum_{l \in S_{HVDC}(n)} HVDCLinkFlow_l \right) \right) \times \frac{IntervalDuration}{3600}$$

where

$price_n$ is the energy price at AC **node** n

$n(NI)$ is the set of North Island AC **nodes** to which any **HVDC links** are connected

$n(SI)$ is the set of South Island AC **nodes** to which any **HVDC links** are connected

$HVDCLinkFlow_l$ is the **MW** flow at the sending end **scheduled** for **HVDC link** l

$HVDCLinkLosses_l$ is the variable **MW losses** for **HVDC link** l

$S_{HVDC}(n)$ is the set of **HVDC links** for which n is the sending AC **node**

$R_{HVDC}(n)$ is the set of **HVDC links** for which n is the receiving AC **node**

IntervalDuration is the duration of the **dispatch interval** in seconds

- (3) The amount of the **loss and constraint excess** generated by each **AC line** that is to be applied to the settlement of **FTRs** must be calculated in accordance with the following formula:

$$AssignedCapacity_k \times ShadowPrice_k \times \frac{IntervalDuration}{3600}$$

where

AssignedCapacity_k is the portion of the capacity of **AC line k** assigned under clause 8(1)

ShadowPrice_k is the **shadow price** of the line capacity on **AC line k**

IntervalDuration is the duration of the **dispatch interval** in seconds

- (4) The amount of the **loss and constraint excess** generated by each **binding branch constraint** and **binding mixed constraint** (if any) involving **AC line** flow terms or **AC line** variable loss terms to be applied to the settlement of **FTRs** must be calculated in accordance with the following formula:

$$AssignedCapacity_v \times ShadowPrice_v \times \frac{IntervalDuration}{3600}$$

where

AssignedCapacity_v is the portion of the capacity of the **RHS of branch constraint** or **mixed constraint v** assigned under clause 8(1)

ShadowPrice_v is the **shadow price** of **branch constraint** or **mixed constraint v**

IntervalDuration is the duration of the **dispatch interval** in seconds

- (5) The amount of the **loss and constraint excess** generated by each **AC line** loss curve block that is to be applied to the settlement of **FTRs** must be calculated in accordance

with the following formula:

$$\min (ACLineFlowBlock_{k,j}, AssignedCapacity_{k,j}) \times ReceivingEndPrice_k \\ \times (ACLineLossFactor_{k,m \text{ arg}} - ACLineLossFactor_{k,j}) \times \frac{IntervalDuration}{3600}$$

where

$ACLineLossFactor_{k,m \text{ arg}}$ = min($ACLineLossFactor_{k,j}$) for which
 $ACLineFlowBlock_{k,j} < ACLineLossMW_{k,j}$

$ACLineFlowBlock_{k,j}$ is the **MW** flow on the j^{th} block of the loss curve of **AC line k** in the direction of **scheduled** positive flow, assuming that loss curve blocks are utilised in order from lowest to highest **loss factor**, in each direction

$AssignedCapacity_{k,j}$ is the portion of the capacity of the j^{th} block of the loss curve of **AC line k** assigned under clause 8(1)

$ReceivingEndPrice_k$ is the nodal energy price at the receiving end of the **scheduled** flow on **AC line k**

$ACLineLossFactor_{k,j}$ is the **loss factor** of the j^{th} block of the loss curve of **AC line k**

$ACLineLossMW_{k,j}$ is the **MW** capacity of the j^{th} block of the loss curve of **AC line k**

$IntervalDuration$ is the duration of the **dispatch interval** in seconds

- (6) The **FTR manager** must calculate the amount of the **loss and constraint excess** that must be applied to the settlement of **FTRs** for each **billing period** by—
- determining the sum of the amounts calculated in accordance with subclauses (2) to (5) for each **dispatch interval** of the **billing period**; and
 - determining the sum of the amounts calculated in accordance with paragraph (a) for all **dispatch intervals** of the **billing period**.

Clause 9: replaced, on 1 November 2022, by clause 191 of the Electricity Industry Participation Code Amendment (Real Time Pricing) 2022.

Schedule 14.4

Forms of hedge settlement agreement

cl 14.8

Form 1: Fixed Price Fixed Volume

Date: [Enter date]

Party A	
Party B	

1 Lodging of hedge settlement agreement

- (1) Party A and Party B (the **parties**) submit this **hedge settlement agreement** to the **clearing manager**, as contemplated by clause 14.8 of the Electricity Industry Participation Code 2010 (the **Code**). Terms that are used in this agreement but not defined bear the meaning given to them in the **Code**.
- (2) By submitting this **hedge settlement agreement** to the **clearing manager** in accordance with clause 14.8 of the **Code**, the **parties** agree to be bound by the terms set out below from the time at which the **clearing manager** counter-signs it.
- (3) If the **clearing manager** counter-signs this document then, from the time it counter-signs, it has obligations relating to it under the **Code**. However, the **parties** acknowledge the **clearing manager** is not bound by this document and that its obligations in relation to it are limited to those set out in the **Code**.

2 Definitions

The following definitions apply in this document:

aggregate fixed amount means, in relation to a **billing period**, the sum of the **fixed amounts** for each **calculation period** in that **billing period**

aggregate floating amount means, in relation to a **billing period**, the sum of the **floating amounts** for each **calculation period** in that **billing period**

business day means any day of the week except Saturdays, Sundays, **national holidays**, the day observed as Wellington Anniversary Day, and any other day from time to time declared by the **Authority** not to be a **business day** by notice to each **registered participant**

calculation period means a **trading period** during the **term**

commencement date means the date specified as such in the schedule

expiry date means the date specified as such in the schedule

fixed amount means, in relation to a **calculation period**, an amount calculated using the following formula:

$$\text{fixed amount} = \text{notional quantity} \times \text{fixed price}$$

fixed price means, in relation to a **calculation period**, the amount specified as such for that **calculation period** in the schedule

fixed price payer means, in relation to a **hedge settlement agreement**, the party specified as such in the schedule

floating amount means, in relation to a **calculation period**, an amount calculated using the following formula:

$$\text{floating amount} = \text{notional quantity} \times \text{floating price}$$

floating price means, in relation to a **calculation period**, the **final price** per MWh for that **calculation period** calculated by reference to the **hedge reference point** [rounded to two decimal places]

floating price payer means, in relation to a **hedge settlement agreement**, the party specified as such in the schedule

hedge reference point means the **grid exit point** specified as such in the schedule

hedge settlement amount means, in relation to a **billing period**, the absolute value of the amount calculated by subtracting the **aggregate floating amount** from the **aggregate fixed amount**

notional quantity means, in relation to a **calculation period**, the number of MWhs specified as such in the schedule for that **calculation period**

settlement date means the date on which payments are due under clause 14.31 of the Code

term means the period from 00.00 hours on the **commencement date** until 23.59 hours on the date on which the **hedge settlement agreement** terminates.

3 Payment of hedge settlement amounts

In relation to a **billing period**:

- (a) if the **aggregate floating amount** exceeds the **aggregate fixed amount**:
 - (i) the **floating price payer** must pay the **clearing manager** an amount equal to the **hedge settlement amount** in relation to that **billing period**; and
 - (ii) the **clearing manager** must pay the **fixed price payer** an amount equal to the **hedge settlement amount** in relation to that **billing period**,
on the relevant **settlement date**; and
- (b) if the **aggregate fixed amount** exceeds the **aggregate floating amount**:
 - (i) the **fixed price payer** must pay the **clearing manager** an amount equal to the **hedge settlement amount** in relation to that **billing period**; and
 - (ii) the **clearing manager** must pay the **floating price payer** an amount equal to the **hedge settlement amount** in relation to that **billing period**,
on the relevant **settlement date**; and
- (c) the **clearing manager** must calculate the amounts to be payable by and to the **parties** and advise each **party** of those amounts by the 5th **business day** of the month following the **billing period**. If either **party** notifies the **clearing manager** in writing by the 7th **business day** of the month following the **billing period** of any issues with the amounts the **clearing manager** has advised are to be payable, the **clearing manager** will use reasonable endeavours to correct the issues before

issuing invoices on the 9th **business day** of the month following the **billing period** under clause 14.18(2) of the **Code**.

4 Termination

This **hedge settlement agreement** terminates on the earlier of:

- (a) the **expiry date**; and
- (b) the date on which it is cancelled under the **Code**.

5 Other provisions

- (1) The **fixed price** is inclusive of any additional costs arising due to carbon charges.
- (2) Where the terms of this **hedge settlement agreement** include reference to—
 - (a) day, this means both **business days** and non-**business days**;
 - (b) weekday, this means a **business day**;
 - (c) weekend, this means non-**business days**.
- (3) Where daylight savings starts or ends during the **term** of this **hedge settlement agreement**, the **clearing manager** will calculate the **fixed amounts** and **floating amounts** for the days on which daylight savings starts or ends in the same way the **clearing manager** calculates the sale and purchase of **electricity** for these days.

EXECUTION

[Execution Block Party A]

[Execution Block Party B]

The **clearing manager** accepts the lodgement of this **hedge settlement agreement** by counter-signing it.

[Execution Block Clearing Manager]

SCHEDULE TERMS OF HEDGE SETTLEMENT AGREEMENT

Hedge settlement agreement terms	
Commencement Date	[Insert date]
Expiry Date	[Insert date]
Fixed Price Payer	[Party A] [Party B]
Floating Price Payer	[Party A] [Party B]
Notional Quantity	[insert number] MWh for each calculation period

Fixed Price	[\$[insert amount] /MWh
Hedge Reference Point	[insert grid exit point]

Schedule 14.4, Form 1, Heading: amended, on 1 April 2025, by clause 25 of the Electricity Industry Participation Code Amendment (Code Review Programme) 2025.

Schedule 14.4, Schedule to Form 1: amended, on 24 March 2015, by clause 20 of the Electricity Industry Participation Code Amendment (Settlement and Prudential Security) 2014.

Schedule 14.4, Form 1, clause 2 **business day**: inserted, on 1 March 2024, by clause 100 of the Electricity Industry Participation Code Amendment (Code Review Programme) 2024.

Schedule 14.4, Form 1, clause 2 **floating price**: amended, on 1 September 2026, by clause 38 of the Electricity Industry Participation Code Amendment (Code Review Programme) 2026.

Schedule 14.4, Form 1, clause 3(b): amended, on 1 March 2024, by clause 101(a) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2024.

Schedule 14.4, Form 1, clause 3(c): inserted, on 1 March 2024, by clause 101(b) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2024.

Schedule 14.4, Form 1, clause 5: replaced, on 1 March 2024, by clause 102 of the Electricity Industry Participation Code Amendment (Code Review Programme) 2024.

Form 2: Cap/Floor Calculation Period Price

[Note (not for inclusion in form): This form can be used to achieve both a capped price and a floor price.]

Date: [Enter date]

Party A	
Party B	

1 Lodging of hedge settlement agreement

- (1) Party A and Party B (the **parties**) submit this **hedge settlement agreement** to the **clearing manager**, as contemplated by clause 14.8 of the Electricity Industry Participation Code 2010 (the **Code**). Terms that are used in this agreement but not defined bear the meaning given to them in the **Code**.
- (2) By submitting this **hedge settlement agreement** to the **clearing manager** in accordance with clause 14.8 of the **Code**, the **parties** agree to be bound by the terms set out below from the time at which the **clearing manager** counter-signs it.
- (3) If the **clearing manager** counter-signs this document then, from the time it counter-signs, it has obligations relating to it under the **Code**. However, the **parties** acknowledge the **clearing manager** is not bound by this document and that its obligations in relation to it are limited to those set out in the **Code**.

2 Definitions

The following definitions apply in this document:

business day means any day of the week except Saturdays, Sundays, **national holidays**, the day observed as Wellington Anniversary Day, and any other day from time to time declared by the **Authority** not to be a **business day** by notice to each **registered participant**

calculation period means a **trading period** during the **term**

calculation period premium means, in relation to a **calculation period**, the amount specified as such in the schedule for that **calculation period**

calculation period settlement amount means, in relation to a **calculation period**, an amount calculated using the following formula:

calculation period settlement amount = **notional quantity** x **strike price differential**

cash settlement amount means, in relation to a **billing period**, the sum of the **calculation period settlement amounts** for each **calculation period** in that **billing period**

commencement date means the date specified as such in the schedule

expiry date means the date specified as such in the schedule

floating price means, in relation to a **calculation period**, the **final price** per MWh for that **calculation period** calculated by reference to the **hedge reference point** [rounded to two decimal places]

hedge reference point means the **grid exit point** specified as such in the schedule

notional quantity means, in relation to a **calculation period**, the number of MWhs specified as such in the schedule for that **calculation period**

option buyer means, in relation to a **hedge settlement agreement**, the party specified as such in the schedule

option premium means, in relation to a **billing period**, the sum of the **calculation period premiums** for each **calculation period** in that **billing period**

option seller means, in relation to a **hedge settlement agreement**, the party specified as such in the schedule

option type means either a put option or a call option as specified in the schedule

settlement date means the date on which payments are due under clause 14.31 of the Code

strike price means, in relation to a **calculation period**, the amount specified as such in the schedule

strike price differential means, in relation to a **calculation period**, an amount equal to:

- (a) if the **option type** is a put option, the greater of the **strike price** minus the **floating price** and zero;
- (b) if the **option type** is a call option, the greater of the **floating price** minus the **strike price** and zero

term means the period from 00.00 hours on the **commencement date** until 23.59 hours on the date on which the **hedge settlement agreement** terminates.

3 Payment of hedge settlement amounts

(1) In relation to a **billing period**:

- (a) the **option buyer** must pay the **clearing manager** an amount equal to the **option premium** for that **billing period**; and
- (b) the **clearing manager** must pay the **option seller** an amount equal to the **option premium** for that **billing period**; and
- (c) the **option seller** must pay the **clearing manager** an amount equal to the **cash settlement amount** for that **billing period**; and
- (d) the **clearing manager** must pay the **option buyer** an amount equal to the **cash settlement amount** for that **billing period**, on the relevant **settlement date**.

- (2) In relation to a billing period, the **clearing manager** must calculate the amounts to be payable by and to the **parties** and advise each **party** of those amounts by the 5th **business day** of the month following the **billing period**. If either **party** notifies the **clearing manager** in writing by the 7th **business day** of the month following the **billing period** of any issues with the amounts the **clearing manager** has advised are to be payable, the

clearing manager will use reasonable endeavours to correct the issues before issuing invoices on the 9th **business day** of the month following the **billing period** under clause 14.18(2) of the **Code**.**4 Termination**

This **hedge settlement agreement** terminates on the earlier of:

- (a) the **expiry date**; and
- (b) the date on which it is cancelled under the **Code**.

5 Other provisions

- (1) The **strike price** is inclusive of any additional costs arising due to carbon charges.
- (2) Where the terms of this **hedge settlement agreement** include reference to—
 - (a) day, this means both **business days** and non-**business days**;
 - (b) weekday, this means a **business day**;
 - (c) weekend, this means non-**business days**.
- (3) Where daylight savings starts or ends during the **term** of this **hedge settlement agreement**, the **clearing manager** will calculate the **calculation period premium** and **calculation period settlement amounts** for these days in the same way the **clearing manager** calculates the sale and purchase of **electricity** for these days.

EXECUTION

[Execution Block Party A]

[Execution Block Party B]

The **clearing manager** accepts the lodgement of this **hedge settlement agreement** by counter-signing it.

[Execution Block Clearing Manager]

SCHEDULE TERMS OF HEDGE SETTLEMENT AGREEMENT

Hedge settlement agreement terms	
Commencement Date	[Insert date]
Expiry Date	[Insert date]
Option Buyer	[Party A] [Party B]
Option Seller	[Party A] [Party B]
Option Type	[Call Option] [Put Option]

Notional Quantity	[insert number] MWh for each calculation period
Strike Price	[\$[insert amount] / MWh
Calculation Period Premium	[\$[insert amount] for each calculation period
Hedge Reference Point	[insert grid exit point

Schedule 14.4, Schedule to Form 2: amended, on 24 March 2015, by clause 21 of the Electricity Industry Participation Code Amendment (Settlement and Prudential Security) 2014.
Schedule 14.4, Form 2, clause 2 **business day**: inserted, on 1 March 2024, by clause 103 of the Electricity Industry Participation Code Amendment (Code Review Programme) 2024.
Schedule 14.4, Form 2, clause 2 **floating price**: amended, on 1 September 2026, by clause 39 of the Electricity Industry Participation Code Amendment (Code Review Programme) 2026.
Schedule 14.4, Form 2, clause 3(2): inserted, on 1 March 2024, by clause 104 of the Electricity Industry Participation Code Amendment (Code Review Programme) 2024.
Schedule 14.4, Form 2, clause 5: replaced, on 1 March 2024, by clause 105 of the Electricity Industry Participation Code Amendment (Code Review Programme) 2024.

Form 3: Cap/Floor Average Price

[Note (not for inclusion in form): This form can be used to achieve both a capped average price over a defined period and a floor average price over a period.]

Date: [Enter date]

Party A	
Party B	

1 Lodging of hedge settlement agreement

- (1) Party A and Party B (the **parties**) submit this **hedge settlement agreement** to the **clearing manager**, as contemplated by clause 14.8 of the Electricity Industry Participation Code 2010 (the **Code**). Terms that are used in this agreement but not defined bear the meaning given to them in the **Code**.
- (2) By submitting this **hedge settlement agreement** to the **clearing manager** in accordance with clause 14.8 of the **Code**, the **parties** agree to be bound by the terms set out below from the time at which the **clearing manager** counter-signs it.
- (3) If the **clearing manager** counter-signs this document then, from the time it counter-signs, it has obligations relating to it under the **Code**. However, the **parties** acknowledge the **clearing manager** is not bound by this document and that its obligations in relation to it are limited to those set out in the **Code**.

2 Definitions

The following definitions apply in this document:

average floating price means, in relation to an **option period**, an amount calculated using the following formula:

$$\text{average floating price} = \frac{\text{option period floating amount}}{\text{option period notional quantity}}$$

business day means any day of the week except Saturdays, Sundays, **national holidays**, the day observed as Wellington Anniversary Day, and any other day from time to time declared by the **Authority** not to be a **business day** by notice to each **registered participant**

calculation period means a **trading period** during the **term**

calculation period floating amount means, in relation to a **calculation period**, an amount calculated using the following formula:

$$\text{calculation period floating amount} = \text{notional quantity} \times \text{floating price}$$

calculation period notional quantity [Revoked]

calculation period premium means, in relation to a **calculation period**, the amount specified as such in the schedule for that **calculation period**

cash settlement amount means, in relation to a **billing period**, the sum of the **option period settlement amounts** for each **option period** in that **billing period**

commencement date means the date specified as such in the schedule

expiry date means the date specified as such in the schedule

floating price means, in relation to a **calculation period**, the **final price** in dollars per MWh for that **calculation period** calculated by reference to the **hedge reference point** [rounded to two decimal places]

hedge reference point means the **grid exit point** specified as such in the schedule

notional quantity means, in relation to a **calculation period**, the amount of **electricity** (measured in MWh) specified as such in the schedule for that **calculation period**

option buyer means, in relation to a **hedge settlement agreement**, the party specified as such in the schedule

option period means each period during the **term** specified as such in the schedule

option period floating amount means, in relation to an **option period**, an amount equal to the aggregate of the **calculation period floating amounts** for each **calculation period** in that **option period**

option period notional quantity means, in relation to an **option period**, the sum of the **notional quantities** for each **calculation period** in the **option period**

option period premium means, in relation to an **option period**, the sum of the **calculation period premium** for each **calculation period** in the **option period**

option period settlement amount means, in relation to an **option period**, an amount calculated using the following formula:

option period settlement amount = **option period notional quantity** x **strike price differential**

option premium means, in relation to a **billing period**, the sum of the **option period premiums** for each **option period** in that **billing period**

option seller means, in relation to a **hedge settlement agreement**, the party specified as such in the schedule

option type means either a put option or a call option as specified in the schedule

settlement date means the date on which payments are due under clause 14.31 of the Code

strike price means, in relation to an **option period**, the amount specified as such in the schedule

strike price differential means, in relation to an **option period**, an amount equal to:

- (a) if the **option type** is a put option, the greater of the **strike price** minus the **average floating price** and zero:
- (b) if the **option type** is a call option, the greater of the **average floating price** minus the **strike price** and zero

term means the period from 00.00 hours on the **commencement date** until 23.59 hours on the date on which the **hedge settlement agreement** terminates.

3 Payment of hedge settlement amounts

- (1) In relation to a **billing period**:

- (a) the **option buyer** must pay the **clearing manager** an amount equal to the **option premium** for that **billing period**; and
 - (b) the **clearing manager** must pay the **option seller** an amount equal to the **option premium** for that **billing period**; and
 - (c) the **option seller** must pay the **clearing manager** an amount equal to the **cash settlement amount** for that **billing period**; and
 - (d) the **clearing manager** must pay the **option buyer** an amount equal to the **cash settlement amount** for that **billing period**,
on the relevant **settlement date**.
- (2) In relation to a **billing period**, the **clearing manager** must calculate the amounts to be payable by and to the **parties** and advise each **party** of those amounts by the 5th **business day** of the month following the **billing period**. If either **party** notifies the **clearing manager** in writing by the 7th **business day** of the month following the **billing period** of any issues with the amounts the **clearing manager** has advised are to be payable, the **clearing manager** will use reasonable endeavours to correct the issues before issuing invoices on the 9th **business day** of the month following the **billing period** under clause 14.18(2) of the **Code**.

4 Termination

This **hedge settlement agreement** terminates on the earlier of:

- (a) the **expiry date**; and
- (b) the date on which it is cancelled under the **Code**.

5 Other provisions

- (1) The **strike price** is inclusive of any additional costs arising due to carbon charges.
- (2) Where the terms of this **hedge settlement agreement** include reference to—
 - (a) day, this means both **business days** and non-**business days**;
 - (b) weekday, this means a **business day**;
 - (c) weekend, this means non-**business days**.
- (3) Where daylight savings starts or ends during the **term** of this **hedge settlement agreement**, the **clearing manager** will calculate the **calculation period premium** and **option period settlement amounts** for these days in the same way the **clearing manager** calculates the sale and purchase of **electricity** for these days.

EXECUTION

[Execution Block Party A]

[Execution Block Party B]

The **clearing manager** accepts the lodgement of this **hedge settlement agreement** by counter-signing it.

[Execution Block Clearing Manager]

SCHEDULE TERMS OF HEDGE SETTLEMENT AGREEMENT

Hedge settlement agreement terms	
Commencement Date	[Insert date]
Expiry Date	[Insert date]
Option Buyer	[Party A] [Party B]
Option Seller	[Party A] [Party B]
Option Type	[Call Option] [Put Option]
Option Period	[Each day] [From 00.00 hours until immediately before 00.00 hours on the next day] [first period being nn and last period being mm] [during the term .]
Notional Quantity	[insert number MWh] [Table of Notional Quantities (in MWh per calculation period) to be inserted]
Strike Price	[\$[insert amount/ MWh] – [Table of Strike Prices to be inserted]
Calculation Period Premium	[\$[insert amount] for each calculation period of option period . [Table of Premiums to be inserted]
Hedge Reference Point	[insert grid exit point]

Schedule 14.4, Form 3, clause 2, **average floating price**: amended, on 24 March 2015, by clause 22(1)(a) of the Electricity Industry Participation Code Amendment (Settlement and Prudential Security) 2014.

Schedule 14.4, Form 3, clause 2 **business day**: inserted, on 1 March 2024, by clause 106 of the Electricity Industry Participation Code Amendment (Code Review Programme) 2024.

Schedule 14.4, Form 3, clause 2, **calculation period floating amount**: amended, on 24 March 2015, by clause 22(1)(b) of the Electricity Industry Participation Code Amendment (Settlement and Prudential Security) 2014.

Schedule 14.4, Form 3, clause 2, **calculation period notional quantity**: revoked, on 24 March 2015, by clause 22(1)(c) of the Electricity Industry Participation Code Amendment (Settlement and Prudential Security) 2014.

Schedule 14.4, Form 3, clause 2, **calculation period premium**: inserted, on 24 March 2015, by clause 22(1)(d) of the Electricity Industry Participation Code Amendment (Settlement and Prudential Security) 2014.

Schedule 14.4, Form 3, clause 2, **floating price**: amended, on 24 March 2015, by clause 22(1)(e) of the Electricity Industry Participation Code Amendment (Settlement and Prudential Security) 2014.

Schedule 14.4, Form 3, clause 2 **floating price**: amended, on 1 September 2026, by clause 40 of the Electricity Industry Participation Code Amendment (Code Review Programme) 2026.

Schedule 14.4, Form 3, clause 2, **notional quantity**: substituted, on 24 March 2015, by clause 22(1)(f) of the Electricity Industry Participation Code Amendment (Settlement and Prudential Security) 2014.

Schedule 14.4, Form 3, clause 2, **option period notional quantity**: inserted, on 24 March 2015, by clause 22(1)(g) of the Electricity Industry Participation Code Amendment (Settlement and Prudential Security) 2014.

Schedule 14.4, Form 3, clause 2, **option period premium**: substituted, on 24 March 2015, by clause 22(1)(h) of the Electricity Industry Participation Code Amendment (Settlement and Prudential Security) 2014.

Schedule 14.4, Form 3, clause 2, **option period settlement amount**: amended, on 24 March 2015, by clause 22(1)(i) of the Electricity Industry Participation Code Amendment (Settlement and Prudential Security) 2014.

Schedule 14.4, Schedule to Form 3: amended, on 24 March 2015, by clause 22(2) of the Electricity Industry Participation Code Amendment (Settlement and Prudential Security) 2014.

Schedule 14.4, Form 3, clause 3(2): inserted, on 1 March 2024, by clause 107 of the Electricity Industry Participation Code Amendment (Code Review Programme) 2024.

Schedule 14.4, Form 3, clause 5: amended, on 1 March 2024, by clause 108 of the Electricity Industry Participation Code Amendment (Code Review Programme) 2024.

Form 4: Fixed Price Variable Volume

Date: [Enter date]

Party A	
Party B	

1 Lodging of hedge settlement agreement

- (1) Party A and Party B (the **parties**) submit this **hedge settlement agreement** to the **clearing manager**, as contemplated by clause 14.8 of the Electricity Industry Participation Code 2010 (the **Code**). Terms that are used in this agreement but not defined bear the meaning given to them in the **Code**.
- (2) By submitting this **hedge settlement agreement** to the **clearing manager** in accordance with clause 14.8 of the **Code**, the **parties** agree to be bound by the terms set out below from the time at which the **clearing manager** counter-signs it.
- (3) If the **clearing manager** counter-signs this document then, from the time it counter-signs, it has obligations relating to it under the **Code**. However, the **parties** acknowledge the **clearing manager** is not bound by this document and that its obligations in relation to it are limited to those set out in the **Code**.
- (4) The **parties** acknowledge this **hedge settlement agreement** is excluded from **washups** under clause 14.36 of the **Code**. Any revision in volume which the **parties** wish to be reflected in the settlement of the hedge must be resolved bilaterally between the **parties** outside of this **hedge settlement agreement** and with no facilitation obligations on the **clearing manager**.

2 Definitions

The following definitions apply in this document:

aggregate fixed amount means, in relation to a **billing period**, the sum of the **fixed amounts** for each **calculation period** in that **billing period**

aggregate floating amount means, in relation to a **billing period**, the sum of the **floating amounts** for each **calculation period** in that **billing period**

baseload means the amount of **electricity** in **MWhs** that is to be excluded from the total reconciled **electricity** volume to calculate the **variable quantity**

business day means any day of the week except Saturdays, Sundays, **national holidays**, the day observed as Wellington Anniversary Day, and any other day from time to time declared by the **Authority** not to be a **business day** by notice to each **registered participant**

calculation period means a **trading period** during the **term**

commencement date means the date specified as such in the schedule

expiry date means the date specified as such in the schedule

fixed amount means, in relation to a **calculation period**, an amount calculated using the following formula:

$$\text{fixed amount} = (\text{variable quantity percentage} \times \text{variable quantity}) \times \text{fixed price}$$

fixed price means, in relation to a **calculation period**, the amount specified as such for that **calculation period** in the schedule

fixed price payer means, in relation to a **hedge settlement agreement**, the party specified as such in the schedule

floating amount means, in relation to a **calculation period**, an amount calculated using the following formula:

$$\text{floating amount} = (\text{variable quantity percentage} \times \text{variable quantity}) \times \text{floating price}$$

floating price means, in relation to a **calculation period**, the **final price** per MWh for that **calculation period** calculated by reference to the **hedge reference point** [rounded to two decimal places]

floating price payer means, in relation to a **hedge settlement agreement**, the party specified as such in the schedule

hedge reference point means the **grid exit point** specified as such in the schedule

hedge settlement amount means, in relation to a **billing period**, the absolute value of the amount calculated by subtracting the **aggregate floating amount** from the **aggregate fixed amount**

maximum variable quantity means the maximum amount in MWh that the **variable quantity** must not exceed

settlement date means the date on which payments are due under clause 14.31 of the Code

term means the period from 00.00 hours on the **commencement date** until 23.59 hours on the date on which the **hedge settlement agreement** terminates

variable quantity means, in relation to a **calculation period**, the amount of MWhs calculated using the following formula:

$$\text{variable quantity} = \text{lesser of: (total reconciled electricity volume for the calculation period} - \text{baseload) or maximum variable quantity}$$

variable quantity percentage means, in relation to the **variable quantity**, the percentage of the **variable quantity** to be hedged.

3 Payment of hedge settlement amounts

In relation to a **billing period**:

(a) if the **aggregate floating amount** exceeds the **aggregate fixed amount**:

- (i) the **floating price payer** must pay the **clearing manager** an amount equal to the **hedge settlement amount** in relation to that **billing period**; and
 - (ii) the **clearing manager** must pay the **fixed price payer** an amount equal to the **hedge settlement amount** in relation to that **billing period**, on the relevant **settlement date**; and
- (b) if the **aggregate fixed amount** exceeds the **aggregate floating amount**:
 - (i) the **fixed price payer** must pay the **clearing manager** an amount equal to the **hedge settlement amount** in relation to that **billing period**; and
 - (ii) the **clearing manager** must pay the **floating price payer** an amount equal to the **hedge settlement amount** in relation to that **billing period**, on the relevant **settlement date**; and
- (c) the **clearing manager** must calculate the amounts to be payable by and to the **parties** and advise each **party** of those amounts by the 5th **business day** of the month following the **billing period**. If either **party** notifies the **clearing manager** in writing by the 7th **business day** of the month following the **billing period** of any issues with the amounts the **clearing manager** has advised are to be payable, the **clearing manager** will use reasonable endeavours to correct the issues before issuing invoices on the 9th **business day** of the month following the **billing period** under clause 14.18(2) of the **Code**.

4 Termination

This **hedge settlement agreement** terminates on the earlier of:

- (a) the **expiry date**; and
- (b) the date on which it is cancelled under the **Code**.

5 Other provisions

- (1) The **fixed price** is inclusive of any additional costs arising due to carbon charges.
- (2) Where the terms of this **hedge settlement agreement** include reference to—
 - (a) day, this means both **business days** and non-**business days**;
 - (b) weekday, this means a **business day**;
 - (c) weekend, this means non-**business days**.
- (3) Where daylight savings starts or ends during the **term** of this **hedge settlement agreement**, the **clearing manager** will calculate the **fixed amounts** and **floating amounts** for the days on which daylight savings starts or ends in the same way the **clearing manager** calculates the sale and purchase of **electricity** for these days.

EXECUTION

[Execution Block Party A]

[Execution Block Party B]

The **clearing manager** accepts the lodgement of this **hedge settlement agreement** by counter-signing it.

[Execution Block clearing manager]

SCHEDULE TERMS OF HEDGE SETTLEMENT AGREEMENT

Hedge settlement agreement terms	
Commencement Date	[Insert date]
Expiry Date	[Insert date]
Fixed Price Payer	[Party A] [Party B]
Floating Price Payer	[Party A] [Party B]
Fixed Price	[\$[insert amount] /MWh
Baseload	[insert amount] MWh
Maximum variable quantity	[insert amount] MWh
Variable quantity percentage	[insert percentage]
Hedge Reference Point	[insert grid exit point]

Schedule 14.4, Form 4 inserted, on 1 January 2026, by clause 5 of the Electricity Industry Participation Code Amendment (Clearing Manager to Settle Fixed Price Variable Volume Hedges) 2025.

Schedule 14.4, Form 4, clause 2 **floating price**: amended, on 1 September 2026, by clause 41(1) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2026.

Schedule 14.4, Form 4, clause 2 **maximum variable quantity**: amended, on 1 September 2026, by clause 41(2) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2026.

Schedule 14.4, Form 4, Schedule: amended, on 1 September 2026, by clause 42(1) and (2) of the Electricity Industry Participation Code Amendment (Code Review Programme) 2026.