

Electricity Industry Participation Code Amendment (Metering and Related Registry Processes) 2020

Under sections 38 and 39(3)(a) of the Electricity Industry Act 2010, and having complied with section 39 of that Act, I make the following amendments to the Electricity Industry Participation Code 2010.

At Wellington on the 8th day of December 2020

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4 December 2020

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Amendment

1 Title

This is the Electricity Industry Participation Code Amendment (Metering and Related Registry Processes) 2020.

2 Commencement

This amendment comes into force on 1 February 2021.

3 Code amended

This amendment amends the Electricity Industry Participation Code 2010.

4 Clause 1.1 amended (Interpretation)

(1) In clause 1.1, definition of **compensation factor**,—

(a) replace “1” with “any”; and

(b) replace “, to produce accurate **volume information**” with “that are required to be applied to **raw meter data**”; and

(c) after paragraph (c) insert:

“To avoid doubt, the **raw meter data** from a **metering installation** may require more than one **compensation factor**, if the relevant types of compensation are required.”

(2) In clause 1.1, in the appropriate alphabetical order, insert:

“**time block meter channel** means a **meter channel** where—

“(a) the volume of **electricity** conveyed is recorded on two or more **meter** registers; and

“(b) each **meter** register is active for a fixed period of time; and

“(c) only one **meter** register is active at any point in time”.

5 Clause 10.12 amended (Interference with metering installation)

In clause 10.12, replace “A **participant**” with “Subject to clause 48 of Schedule 10.7, a **participant**”.

6 New clause 10.13A inserted

After clause 10.13, insert:

“**10.13A Metering installation must record imported electricity separately from exported electricity**

“(1) A **metering equipment provider** must, for each **point of connection** at which it is the **metering equipment provider**, ensure that, if a **category 1 metering installation** or **category 2 metering installation** is capable of importing and exporting **electricity**,—

“(a) the **metering installation** measures and records the imported **electricity**

- separately from the exported **electricity**; and
- “(b) the **metering installation** measures and records the imported **electricity** and exported **electricity** separately for each connected phase if the **metering installation** contains multiple phases.
- “(2) A **metering equipment provider** for a category 3 or higher **metering installation** must ensure that the **metering installation** measures and records the imported **electricity** separately from the exported **electricity**.
- “(3) Despite subclauses (1) and (2), if the **metering installation** contains multiple phases, the **metering equipment provider** for the **metering installation**—
- “(a) may aggregate together—
- “(i) the amounts of imported **electricity** recorded on different phases; or
- “(ii) the amounts of exported **electricity** recorded on different phases; but
- “(b) must not aggregate together imported and exported **electricity**.”

7 Clause 10.22 amended (Change of metering equipment provider)

- (1) After clause 10.22(1) insert:
- “(1A)The **losing metering equipment provider** must within 40 **business days** of the **gaining metering equipment provider** assuming responsibility for a **metering installation**—
- “(a) calculate any proportion of costs described in subclauses (3) and (4); and
- “(b) notify the **gaining metering equipment provider** in writing of those costs.
- “(1B)The **losing metering equipment provider** does not need to comply with subclause (1A) if the **losing metering equipment provider** does not wish to charge the **gaining metering equipment provider** a proportion of costs.
- “(1C)If the **losing metering equipment provider** does not carry out the calculation and notify the **gaining metering equipment provider** under subclause 1(A) within the time frame in that subclause, the **gaining metering equipment provider** does not need to comply with subclause (2). ”
- (2) In clause 10.22(2),—
- (a) replace “assuming responsibility for a **metering installation**” with “receiving a notice provided under subclause (1A)”; and
- (b) after “subclause (3)” insert “and subclause (4)”.
- (3) In clause 10.22, replace subclause (3) with:
- “(3) The costs payable under subclause (2) are those directly and solely attributable to the **certification** tests and **calibration** tests of—
- “(a) the **metering installation**; or
- “(b) any **metering components** in the **metering installation**.”
- (4) After clause 10.22(3) insert:
- “(4) However, when calculating the costs payable under subclause (2)—
- “(a) no costs are payable for a **metering component** in a **metering installation** if the **gaining metering equipment provider**, within three **business days** of assuming responsibility for the **metering installation**,—
- “(i) replaces the **metering component**; or
- “(ii) removes the **metering component** from use; or
- “(iii) **recertifies** the **metering component**; and
- “(b) no costs are payable for a **metering installation** if the **gaining metering equipment provider**, within three **business days** of assuming responsibility for the **metering installation**,—
- “(i) replaces the **metering installation**; or

- “(ii) removes the **metering installation** from use; or
 - “(iii) **recertifies** the **metering installation**; and
 - “(c) the costs for a **metering component** must be prorated for the remainder of the **certification** validity period for the **metering component**; and
 - “(d) the costs for a **metering installation** are the sum of the prorated costs payable under this clause for each **metering component** in the **metering installation**.
- “(5) Despite subclause (2), a **gaining metering equipment** provider is not required to pay the costs if—
- “(a) it has agreed in writing with the **losing metering equipment provider** that the **gaining metering equipment provider** is not required to pay costs under this clause; or
 - “(b) the **losing metering equipment provider** has failed to provide notice of the costs to the **gaining metering equipment provider** in accordance with subclause (1A).”

8 Clause 10.25 amended (Responsibility for ensuring there is metering installation for NSP that is not point of connection to grid)

- (1) In clause 10.25(2)(b)—
 - (a) replace “no later than” with “within”; and
 - (b) after “NSP”, delete “and”; and
 - (c) revoke subparagraph (ii).
- (2) Replace clause 10.25(2)(c) with:
 - “(c) within 5 **business days** after the date of certification of each **metering installation**, advise the **reconciliation manager** of—
 - “(i) the **participant identifier** of the **metering equipment provider** for the **metering installation**; and
 - “(ii) the certification expiry date of the **metering installation**.”

9 New clauses 10.29B and 10.29C inserted and cross-heading inserted

After clause 10.29A, insert:

“10.29B Grid owner may electrically connect point of connection to grid

- “(1) Subject to clause 10.33A, only a **grid owner** may **electrically connect** a **point of connection** to the **grid** that it owns or operates.
- “(2) A **grid owner** may only **electrically connect** a **point of connection** under subclause (1) if—
 - “(a) in the case of the **electrical connection** of a **direct consumer** or **grid connected generator**, there is a **trader** identified as responsible under Part 15 for the delivery of **submission information** for the **electricity** conveyed at the **point of connection** from the time of **electrical connection**; or
 - “(b) in the case of the **electrical connection** of a **local network** that has one or more **consumers** connected to the **local network** or to an **embedded network** that is connected to the **local network** (either directly or through another **embedded network**), one or more **traders** are identified as responsible under Part 15 for the delivery of **submission information** for the **electricity** conveyed at the **point of connection** from the time of **electrical connection**; or
 - “(c) in the case of the **electrical connection** of a **local network** that has no **consumers** connected to the **local network** or to any **embedded network** that is connected to

the **local network** (either directly or through another **embedded network**), if the **distributor** for that **local network** is identified as responsible under Part 15 for the delivery of **submission information** for the **electricity** conveyed at the **point of connection** from the time of **electrical connection**.

“Disconnecting and electrically disconnecting points of connection to the grid

“10.29C Grid owner may electrically disconnect or disconnect point of connection to grid

“(1) Subject to subclause (2), only a **grid owner** may—

“(a) **electrically disconnect a point of connection** to the **grid**; or

“(b) **disconnect a point of connection** to the **grid**.

“(2) A **grid owner** may disconnect or **electrically disconnect a point of connection** to the **grid** that it owns or operates only if the action is required for the **grid owner** to meet its obligations—

“(a) under an enactment, including this Code; or

“(b) under its contract with the party identified in clause 10.29B(2) as responsible in accordance with Part 15 for the delivery of **submission information** for the **electricity** conveyed at the **point of connection** to the **grid**.”

10 Clauses 10.30 and 10.30A replaced

Replace clause 10.30 with:

“10.30 When local network owner or embedded network owner may connect NSP that is not point of connection to grid

“(1A) Only a **local network** owner that initiates, under Part 11, the creation of an **NSP** on its **local network** that is not a **point of connection** to the **grid** may connect the **NSP** to—

“(a) an **embedded network**, but only if the **embedded network** owner has agreed to the connection; or

“(b) another **local network**, but only if the owner of the other **local network** has agreed to the connection.

“(1B) Only an **embedded network** owner that initiates, under Part 11, the creation of an **NSP** on its **embedded network**—

“(a) may connect the **NSP** to another **embedded network**; but

“(b) can only do so if the other **embedded network** owner has agreed to the connection.

“(1) A **local network** owner or an **embedded network** owner must not connect an **NSP** on its **network** under subclause (1A) or (1B) unless requested to do so by the **reconciliation participant** responsible for ensuring there is a **metering installation** for the **NSP**.

“(2) A **local network** owner or an **embedded network** owner that initiates the creation of an **NSP** under Part 11 on the owner’s **network** and connects the **NSP** under this clause must, within 5 **business days** of connecting the **NSP**, advise the **reconciliation manager** of the following:

“(a) that the **NSP** has been connected; and

“(b) the connection date; and

“(c) the **participant identifier** of the **metering equipment provider** for each **metering installation** for the **NSP**; and

“(d) the **certification** expiry date of each **metering installation** for the **NSP**.

“10.30A When local network owner or embedded network owner may temporarily electrically connect NSP that is not point of connection to grid

- “(1) Subject to clause 10.33, only a **local network** owner that initiates, under Part 11, the creation of an NSP on its **local network** that is not a **point of connection** to the **grid** may temporarily **electrically connect** the NSP to—
- “(a) an **embedded network**, but only if the **embedded network** owner has agreed to the temporary **electrical connection**; or
 - “(b) another **local network**, but only if the owner of the other **local network** has agreed to the temporary **electrical connection**.
- “(2) Subject to clause 10.33, only an **embedded network** owner that initiates, under Part 11, the creation of an NSP on its **embedded network**—
- “(a) may temporarily **electrically connect** the NSP to another **embedded network**; but
 - “(b) can only do so if the other **embedded network** owner has agreed to the temporary **electrical connection**.
- “(3) A **local network** owner or an **embedded network** owner may only temporarily **electrically connect** an NSP under subclause (1) or (2) if a **metering equipment provider** requests that the **local network** owner or **embedded network** owner temporarily **electrically connect** the NSP for the purposes of—
- “(a) **certifying a metering installation** at the NSP; or
 - “(b) maintaining, repairing, testing, or **commissioning a metering installation** at the NSP.
- “(4) Despite subclause (3), a **metering equipment provider** must not request that a **local network** owner or an **embedded network** owner temporarily **electrically connect** an NSP under subclause (1) or (2) unless—
- “(a) the **reconciliation participant** responsible for the NSP authorises the **metering equipment provider** to do so; and
 - “(b) the **metering equipment provider** has an arrangement with that **reconciliation participant** to provide **metering services**.”

11 New clauses 10.30B and 10.30C inserted and cross-heading inserted

After clause 10.30A, insert:

“10.30B When distributor may electrically connect NSP that is not point of connection to grid

- “(1) Subject to clause 10.33A, only a **distributor** may, on its **network**, **electrically connect** an NSP that is not a **point of connection** to the **grid**.
- “(2) A **distributor** may only **electrically connect** an NSP under subclause (1) that is not an **interconnection point** between two **local networks** if—
- “(a) each **distributor** whose **network** is directly connected to the NSP has agreed to the **electrical connection**; and
 - “(b) 1 or more **traders** are identified as responsible under Part 15 for the delivery of **submission information** for the **electricity** conveyed at the NSP from the time of **electrical connection** and that **trader** or those **traders** have—
 - “(i) requested the **electrical connection**; and
 - “(ii) confirmed to the **distributor** that the **metering installation** at the NSP is **certified** and operational.
- “(3) A **distributor** may only **electrically connect** an NSP under subclause (1) that is an

interconnection point between two **local networks** if the **reconciliation participant** responsible for the delivery of **submission information** for the **NSP**—

“(a) has requested the **electrical connection**; and

“(b) has confirmed the **metering installation** at the **NSP** is **certified** and operational.

“Disconnecting and electrically disconnecting NSPs

“10.30C Distributor may electrically disconnect or disconnect NSP that is not point of connection to grid

“(1) Subject to subclause (2), only a **distributor** may, on its **network**—

“(a) **electrically disconnect** an **NSP** that is not a **point of connection** to the **grid**; or

“(b) **disconnect** an **NSP** that is not a **point of connection** to the **grid**.

“(2) A **distributor** may take one of the actions under subclause (1) only if the action is required for the **distributor** to meet its obligations—

“(a) under an enactment, including this Code; or

“(b) under its contract with the **trader** or **traders** responsible for the delivery of **submission information** under Part 15 for the **electricity** conveyed at the **NSP**.”

12 New cross-heading and clause 10.31C inserted

After clause 10.31B, insert:

“Disconnecting and electrically disconnecting ICPs

“10.31C Distributor may electrically disconnect or disconnect ICP that is not an NSP

“(1) Subject to subclause (2), only a **distributor** may, on its **network**,—

“(a) **electrically disconnect** an **ICP** that is not an **NSP**; or

“(b) **disconnect** an **ICP** that is not an **NSP**.

“(2) A **distributor** may take one of the actions under subclause (1) only if the action is required for the **distributor** to meet its obligations—

“(a) under an enactment, including this Code; or

“(b) under its contract with the **trader** recorded in the **registry** as being responsible for the **ICP**; or

“(c) under its contract with the **consumer** at the **ICP**.”

13 Clauses 10.33 and 10.33A replaced

Replace clause 10.33 with:

“10.33 When trader may temporarily electrically connect a point of connection

“(1) A **trader** may temporarily **electrically connect** a **point of connection**, or a **metering equipment provider** authorised by a **trader** under subclause (2) may temporarily **electrically connect** a **point of connection** only if—

“(aa) for an **NSP** that is a **point of connection** to the **grid**, the **grid owner** has approved—

“(i) the **trader** temporarily **electrically connecting** the **point of connection**; or

“(ii) the **trader** authorising the temporary **electrical connection** of the **point of connection**;

“(ab) for an **NSP** that is not a **point of connection** to the **grid**, the **distributor** that gave notice to the **reconciliation manager** under clause 25 of Schedule 11.1 has

approved—

“(i) the **trader** temporarily **electrically connecting** the **point of connection**; or

“(ii) the **trader** authorising the temporary **electrical connection** of the **point of connection**:

“(a) for a **point of connection** that is an **ICP**, but which is not an **NSP**,—

“(i) either:

“(A) the **trader** is recorded in the **registry** as being responsible for the **ICP**; or

“(B) if the **ICP** has been **electrically disconnected**, the **trader**—

“(1) has an arrangement with a customer or **embedded generator** at the **ICP**; and

“(2) initiates a switch under one of clauses 2, 9, or 14 of Schedule 11.3 within 2 **business days** of the date of **electrical connection**; and

“(3) accepts responsibility to provide **submission information** under Part 15 or for the losing **trader’s** direct costs for the **electricity** conveyed at the **ICP**, from the date of **electrical connection**; and

“(ii) if the **ICP** has metered load, 1 or more operational **certified metering installations** are connected at the **ICP** in accordance with this Part; and

“(iii) if the **ICP** has not previously been **electrically connected**, the owner of the **network** to which the **point of connection** is connected has given written approval to the temporary **electrical connection**.

(b) *[Revoked]*

(c) *[Revoked]*

“(2) A **trader** described in subclause (1) may authorise a **metering equipment provider**, with which the **trader** has an arrangement, to request the temporary **electrical connection** of a **point of connection** only for the purposes of—

“(a) **certifying** a **metering installation** at the **point of connection**; or

“(b) maintaining, repairing, testing, or **commissioning** a **metering installation** at the **point of connection**.

“(3) *[Revoked]*

“(4) *[Revoked]*

“10.33A When trader may electrically connect point of connection

“(1) A **trader** may **electrically connect** a **point of connection**, or another **participant** authorised by a **trader** may **electrically connect** a **point of connection**, only if—

“(aa) for an **NSP** that is a **point of connection** to the **grid**, the **grid owner** has approved—

“(i) the **trader electrically connecting** the **point of connection** to the **grid** that the **grid owner** owns or operates; or

“(ii) the **trader** authorising the **electrical connection** of the **point of connection** to the **grid** that the **grid owner** owns or operates:

“(ab) for an **NSP** that is not a **point of connection** to the **grid**, the **distributor** that gave notice to the **reconciliation manager** under clause 25 of Schedule 11.1 has approved—

“(i) the **trader electrically connecting** the **point of connection** to the **network** that the **distributor** owns or operates; or

“(ii) the **trader** authorising the **electrical connection** of the **point of connection**

- to the **network** that the **distributor** owns or operates:
- “(a) for a **point of connection** that is an **ICP**, but which is not an **NSP**,—
 - “(i) either—
 - “(A) the **trader** is recorded in the **registry** as being responsible for the **ICP**; or
 - “(B) if the **ICP** has been **electrically disconnected**, the **trader**—
 - “(1) has an arrangement with a **customer** or **embedded generator** at the **ICP**; and
 - “(2) initiates a switch under clause 2, 9, or 14 of Schedule 11.3 within 2 **business days** of the date of **electrical connection**; and
 - “(3) accepts responsibility to provide **submission information** in accordance with Part 15 or for the losing **trader’s** direct costs for the **electricity** conveyed at the **ICP** from the date of **electrical connection**; and
 - “(ii) if the **ICP** has metered load, 1 or more operational **certified metering installations** are connected at the **ICP** in accordance with this Part; and
 - “(iii) if the **ICP** has not previously been **electrically connected**, the owner of the **network** to which the **point of connection** is connected has given written approval of the **electrical connection**:
 - “(b) [*Revoked*]
 - “(c) [*Revoked*]
 - “(d) the **point of connection** supplies **electricity** to a load that is assigned to multiple **ICPs** as **shared unmetered load** and the **distributor** to whose **network** the **point of connection** is connected has advised all **traders** that are assigned the **shared unmetered load** of the **trader’s** intention to **electrically connect** the **point of connection**.
- “(2) Further to subclause (1), a **trader** described in subclause (1)(a)(i)—
- “(a) may authorise the **electrical connection** of an **ICP** if—
 - “(i) a **metering installation** is in place at the **ICP**; and
 - “(ii) the **metering installation** is operational but not **certified**; and
 - “(iii) the **trader** arranges for the **certification** of the **metering installation** to be completed within 5 **business days** of the **ICP** being **electrically connected**;
 or
 - “(b) may **electrically connect** an **ICP** if the **point of connection** is solely for **unmetered load**.
- “(3) A **trader** must not **electrically connect** or authorise the **electrical connection** of a **point of connection** in any of the following circumstances—
- “(a) a **distributor** has **electrically disconnected** the **point of connection** for safety reasons, and has not subsequently approved the **electrical connection** of the **point of connection**;
 - “(b) **electrically connecting** the **point of connection** would breach the Electricity (Safety) Regulations 2010;
 - “(c) a switch described in subclause (1)(a)(i)(B)(2) has been withdrawn or reversed.
- “(4) No **participant** may **electrically connect** a **point of connection**, or authorise the **electrical connection** of a **point of connection**, other than—
- “(a) a **trader** in the circumstances described in subclauses (1) to (3); or
 - “(b) a **distributor** in the circumstances described in clause 10.31B.
- “(5) Under subclause (1)(a)(i), if a **trader** or a person **authorised** by a **trader** **electrically connects** an **electrically disconnected point of connection** in error, or prior to the switch being withdrawn or reversed, the **trader** must—

- “(a) **electrically disconnect** the ICP—
 - “(i) using the same method of **electrical disconnection** as the losing **trader** used; or
 - “(ii) by, if the method of **electrical connection** was bypass, removing the bypass; and
- “(b) reimburse the losing **trader** for any direct costs the losing **trader** incurred because of the **electrical connection** of the **point of connection**—
 - “(i) in error; or
 - “(ii) prior to the switch being withdrawn or reversed.”

14 New cross-heading and clauses 10.33B and 10.33C inserted

After clause 10.33A, insert:

“Disconnecting and electrically disconnecting points of connection

“10.33B Trader must not disconnect or electrically disconnect ICP for which it is not responsible

“Unless a **trader** is recorded in the **registry** as being responsible for an **ICP** or is meeting its obligation under clause 10.33A(5)(a) in respect of an **ICP**, the **trader** must not—

- “(a) electrically disconnect the **ICP**; or
- “(b) disconnect the **ICP**; or
- “(c) authorise a **metering equipment provider**—
 - “(i) to **electrically disconnect** the **ICP**; or
 - “(ii) to disconnect the **ICP**.

“10.33C When trader may bridge meter at ICP

- “(1) Subject to subclause (2), only a **trader** that is responsible for an **ICP** or a **metering equipment provider** authorised by the **trader** or a **distributor** authorised by the **trader**, in **electrically connecting** an **ICP**, may **electrically connect** the **ICP** in a way that bypasses the **meter** or **meters** that are in place to record the **electricity** flowing through the **ICP** (“bridge” a **meter**).
- “(2) A **trader** may authorise a **metering equipment provider** or **distributor** under subclause (1)—
 - “(a) generally for all or some of the **ICPs** that the **trader** is responsible for; or
 - “(b) for a specific **ICP** that the **trader** is responsible for.
- “(3) A **trader** that is responsible for an **ICP**, or a **metering equipment provider** authorised by the **trader** or a **distributor** authorised by the **trader**, may only bridge a **meter** at the **ICP** if—
 - “(a) the **metering equipment provider** responsible for the **meter**, despite best endeavours,—
 - “(i) is unable to remotely **electrically connect** the **ICP** so that **electricity** flows through the **meter**; or
 - “(ii) cannot, because of safety issues, repair a fault with the **meter** that prevents **electricity** flowing through the **meter** at the **ICP**; and
 - “(b) the **consumer** at the **ICP** will likely be without **electricity** for a period of time that will cause significant disadvantage to the **consumer**.
- “(4) If a **meter** is bridged under subclause (1) by the **metering equipment provider** or **distributor**, the **metering equipment provider** or **distributor** (as the case may be)

must, within 1 **business day**, advise the **trader** responsible for the **ICP** that the **meter** is bridged and include the date that bridging occurred in its advice.

- “(5) If a **meter** is bridged under subclause (1), in all cases, the **trader** responsible for the **ICP** must—
- (a) determine, in accordance with clause 2A of Schedule 15.2, the quantity of **electricity** conveyed through the **ICP** for the period of time the **meter** is bridged; and
 - (b) submit that estimated quantity of **electricity** to the **reconciliation manager** in accordance with clause 15.4; and
 - (c) within 1 **business day** of being advised that the **meter** is bridged, notify the **metering equipment provider** responsible for the bridged **meter** that it is required to reinstate the **meter** so that all **electricity** flowing into the **ICP** flows through a certified **metering installation**.
- “(6) The **metering equipment provider** receiving the notice under subclause (5)(c) must reinstate the **meter** so that all electricity flowing into the **ICP** flows through a certified **metering installation** within 5 **business days** of receiving the notice.”

15 **Clause 10.34 amended (Installation and modification of metering installations)**

- (1) In clause 10.34(2)—
- (a) at subparagraph (b), replace “.” with “; or”; and
 - (b) after subparagraph (b), insert:
 - “(c) finalising or modifying the design of a **metering installation** when replacing a **metering component** or **metering installation** with a new **metering component** or new **metering installation**, even if the new **metering component** or **metering installation** has the same or similar design and functionality as the existing **metering component** or **metering installation**.”
- (2) In clause 10.34(2A), after “the”, insert “**metering component’s** or”.
- (3) After clause 10.34(2A), insert:
- “(2B) In addition to subclause (2), any consultation carried out under subclause (2), and any agreement that may be reached in that consultation, does not affect the application of clause 19 of Schedule 10.7.
- “(2C) Despite subclause (2), the **metering equipment provider** does not need to consult with—
- “(a) the **distributor** if the **metering equipment provider** has already consulted with the **distributor** on the design of—
 - “(i) a **metering component** or **metering installation** that has the same or similar design and functionality as the replacement **metering component** or **metering installation**; or
 - “(ii) the new **metering installation**; or
 - “(b) the **trader** if the **metering equipment provider** has already consulted with the **trader** on the design of—
 - “(i) a **metering component** or **metering installation** that has the same or similar design and functionality as the replacement **metering component** or **metering installation**; or
 - “(ii) the new **metering installation**.
- “(2D) To avoid doubt, subclause (2C) is intended to permit a **metering equipment provider**

- to re-use the design of a **metering component** or **metering installation** if—
- “(a) the **metering equipment provider** has already consulted the **distributor** and **trader** in accordance with subclause (2); and
 - “(b) the **metering equipment provider** will re-use the design of the **metering component** or **metering installation**—
 - “(i) on the **distributor’s network**; and
 - “(ii) at an **ICP** for which the **trader** is responsible.”

16 New clause 10.46A inserted

After clause 10.46, insert:

“10.46A Timeframe for correcting defects and inaccuracies in metering installation

- “(1) This clause applies to a **metering equipment provider** that becomes aware, or is advised under clause 10.43, that a **metering installation** for which it is responsible, is—
- “(a) inaccurate; or
 - “(b) defective; or
 - “(c) not fit for purpose.
- “(2) A **metering equipment provider** to which this clause applies—
- “(a) must undertake remedial action to make the **metering installation**—
 - “(i) accurate; and
 - “(ii) not defective; and
 - “(iii) fit for purpose; and
 - “(b) must use its best endeavours to complete the remedial action under paragraph (a) no later than 10 **business days** after the date on which it is required to provide a report to all affected **participants** under clause 10.43(4)(c).”

17 Clause 10.47 amended (Correction of defects and inaccuracies in metering installation)

In the heading to clause 10.47, replace “**Correction of**” with “**ATH to keep records of modifications to correct**”.

18 Schedule 10.1, Table 1 replaced

Replace Table 1 of Schedule 10.1 with:

Defining Characteristics				Associated Requirements of active energy metering							
Metering installation category	Primary voltage (V)	Primary current (I)	Measuring transformers	Metering installation certification type	Maximum meter class for installation category	Accuracy tolerances		Selected component metering installation minimum IEC class (more accurate components may be used)		Metering installation certification and inspection	
						Maximum permitted error	Maximum site uncertainty	Meter	Current Transformer	Maximum metering installation certification validity period	Maximum inspection period
1	V < 1kV	I ≤ 160A	None	NHH or HHR	Class 2.0	± 2.5%	0.6%	2	N/A	180 months	126 months
2	V < 1kV	I ≤ 500A	CT and where applicable, VT	NHH or HHR	Class 2.0	± 2.5%	0.6%	2	1	120 months	126 months
3	V < 1kV	500A < I ≤ 1200A	CT	HHR only	Class 1.0	± 1.25%	0.3%	1	0.5	120 months	63 months
	V < 1kV	500A < I ≤ 1200A	VT & CT		Class 0.5			N/A	N/A		
	1kV ≤ V ≤ 11kV	I ≤ 100A									
	11kV < V ≤ 22kV	I ≤ 50A									
4	V < 1kV	I > 1200A	CT	HHR only	Class 0.5	± 1.25%	0.3%	N/A	N/A	60 months	33 months
	V < 1kV	I > 1200A	VT & CT								
	1kV ≤ V ≤ 6.6kV	100A < I ≤ 400A									
	6.6kV < V ≤ 11kV	100A < I ≤ 200A									
	11kV < V ≤ 22kV	50A < I ≤ 100A									
5	1kV ≤ V ≤ 6.6kV	I > 400A	VT & CT	HHR only		± 0.75%	0.2%	N/A	N/A	36 months	19 months

	$6.6\text{kV} < V \leq 11\text{kV}$	$I > 200\text{A}$			Class 0.2						
	$V > 11\text{kV}$	$I > 100\text{A}$									
	$V > 22\text{kV}$	Any current									

19 Schedule 10.1, Table 2 revoked
Revoke Table 2 of Schedule 10.1.

20 **Schedule 10.1, Table 3 replaced**
 Replace Table 3 of Schedule 10.1 with:

	Event	Design check	Prevailing load test	Data storage device check	Software security and communication equipment check	Control device check	Wiring check	Component certification check	Review of compensation factors	Raw meter data output test	Supply polarity check	Register advance test	Installation or component configuration check
Category 1 metering installations	Initial certification, or recertification with all meters replaced	M			M	MI	M	M	M	M	M	M	M
	Recertification with no meters replaced	M	M		M	MI	M	M	M	M	M	M	M
	Recertification with one or more meters replaced with a certified meter(s), at least one existing meter remains, and metering installation expiry date is not changed	M			M	MI	M	M	M	M	M	M	M
	Recertification with one or more meters replaced with a certified meter(s), at least one existing meter remains (which must have calibration that is valid for the new certification period), and metering installation expiry date is changed	M	M		M	MI	M	M	M	M	M	M	M
Categories 2 – 3	Initial certification, recertification, or meter change including internal data storage devices	M	M	MI (for Cat 3 only)	M	MI	M	M	M	M	M	M	M

	Event	Design check	Prevailing load test	Data storage device check	Software security and communication equipment check	Control device check	Wiring check	Component certification check	Review of compensation factors	Raw meter data output test	Supply polarity check	Register advance test	Installation or component configuration check
	Measuring transformer change or ratio change	M	M				M	M	M	M	M	M	M
Categories 1-3	Metrology software change either onsite or remote	M		M	M			M	M	M		M	M
	External data storage device change	M		M	M		M	M	M	M		M	M
	Control device change	M		MI		M	M	M		M			M
	Additional equipment (eg wiring)	M	M				M			M	M	M	M

Key: M = mandatory, MI = mandatory if installed.

21 Schedule 10.3, clause 4 amended

- (1) In Schedule 10.3, clause 4(1),—
 - (a) delete “AS/NZS ISO 9001:2008 or” in each place; and
 - (b) replace “the requested term of the approval” with “the term of the requested approval” in each place.
- (2) In Schedule 10.3, after clause 4(1), insert:

“(1A) Despite subclause (1), an applicant may apply to the **Authority** for approval as a **class B ATH** without confirming that it holds and complies with AS/NZS ISO 9001:2016 certification for at least the term of the requested approval, provided the applicant confirms as part of its application that—

 - “(a) it holds and complies with AS/NZS ISO 9001:2016 certification at the time of the application and that certification expires during the approval period; and
 - “(b) it has in place appropriate plans to ensure that it renews its AS/NZS ISO 9001:2016 certification for the term of the requested approval, so that its AS/NZS ISO 9001:2016 certification remains in place continuously throughout the approval period.”

22 Schedule 10.4, clause 10 replaced

In Schedule 10.4, replace clause 10 with:

“10 Services access interface

An **ATH** must, when preparing a **metering installation certification report**, determine, and record in the **certification report**,—

- “(a) all **services access interfaces**; and
- “(b) the conditions under which each **services access interface** may be used.”

23 Schedule 10.6, clause 8 amended

- (1) In Schedule 10.6, clause 8(3), replace “**interrogation** and processing system logs” with “processing system log”.
- (2) In Schedule 10.6, clause 8(5), replace paragraph (f) with:

“(f) check the **event log** for any evidence of an event that may affect the integrity or operation of the **metering installation** such as malfunctioning or tampering.”
- (3) In Schedule 10.6, after clause 8(5), insert:

“(5A) A **metering equipment provider** must, if it finds an event that may affect the integrity or operation of a **metering installation**,—

 - “(a) investigate and remediate the event; and
 - “(b) advise the relevant **reconciliation participant** that it is investigating and remediating the event; and
 - “(c) advise the relevant **reconciliation participant** of any corrections to the **raw meter data** required; and
 - “(d) advise the relevant **reconciliation participant** of any event that does not affect the integrity or operation of the **metering installation** but which may affect the accuracy of the **raw meter data**.”
- (4) In Schedule 10.6, clause 8(7)(c)(v), after “(5)” insert “and the extent of any change in the internal clock setting”.
- (5) In Schedule 10.6, clause 8(8), replace paragraph (b) with:

“(b) the **certifying ATH** confirmed, as a part of the **metering installation’s** most recent

certification, that the **metering equipment provider's back office** processes include, for each **interrogation** cycle, a comparison of—

- “(i) the increment of the accumulating **meter** registers; and
- “(ii) the sum of the **half-hour metering raw meter data** for the same period.”.

(6) In Schedule 10.6, clause 8(9),—

- (a) replace “**half hour metering information**” with “**half hour raw meter data**”; and
- (b) replace “that information” with “the sum of that data”; and
- (c) after “registers” insert “for the same period”.

(7) In Schedule 10.6, clause 8, after subclause (9), insert:

“(10) A **metering equipment provider** must not, when **interrogating a metering installation**, apply the **compensation factor** recorded in the **registry** for that **metering installation** to any **raw meter data** downloaded as part of the **interrogation**.

“(11) If an electronic **interrogation** of a **metering installation** by a **metering equipment provider** does not download all of the **raw meter data** as part of the **interrogation**, the **metering equipment provider** must—

- “(a) investigate the reasons for the failure, restore communications, and download all of the **raw meter data** as soon as possible but no later than the time specified in subclause (12); or
- “(b) in accordance with clause 3(c) of Schedule 11.4, update the **registry metering records** to show that the **metering component** is no longer an advanced metering infrastructure device.

“(12) If a **metering equipment provider** decides to take the actions specified in subclause (11)(a), the **metering equipment provider** must complete those actions by the earlier of—

- “(a) the number of full days that equate to no more than 25% of the maximum **interrogation** cycle for the **metering installation** from the date of the last successful **interrogation**; and
- “(b) 30 days from the date of the last successful **interrogation**.

“(13) If the **metering equipment provider** does not complete investigating, restoring communications, and downloading all of the **raw meter data** in accordance with subclause (11)(a) within the time specified in subclause (12) or determines at any time during the time period specified in subclause (12) that it will not be able to complete those tasks within that time frame, the **metering equipment provider** must update the **registry metering records** in accordance with clause 3(d) of Schedule 11.4 to show that the **metering component** is no longer an advanced metering infrastructure device.”

24 Schedule 10.7, clause 2 amended

In Schedule 10.7, clause 2(3)(d), before “the maximum **interrogation** cycle” insert “for each **services access interface**.”.

25 Schedule 10.7, clause 6 amended

(1) In the heading to Schedule 10.7, clause 6, replace “Determination of” with “Determining”.

(2) In Schedule 10.7, clause 6, replace subclauses (1) and (2) with:

“(1) When determining the category of a **metering installation** under clause 5(a), an **ATH** may under subclause (2) determine the category of a **metering installation** to be lower than would otherwise be the case under clause 5(a) only in 1 of the following

circumstances,:

- “(a) if a protection device, including a fuse or a **circuit breaker**, is installed that limits the maximum current of the **metering installation**:
 - “(b) if the **metering equipment provider**, acting reasonably on the basis of historical **metering data**, believes that the maximum current to be conveyed through the **point of connection** will, at all times during the intended **certification** period, be lower than the current setting of the protection device for the category for which the **metering installation**—
 - “(i) is **certified**; or
 - “(ii) is required to be **certified** by this Code:
 - “(c) if the **metering installation** uses less than 0.5 GWh in any 12 month period:
 - “(d) if the **metering equipment provider**, acting reasonably on the basis of historical **metering data**, believes that the **metering installation** (including, for example, a **metering installation** for an emergency fire pump or flood pump) will use less than 0.5 GWh in any 12 month period.
- “(2) An **ATH** may determine the category of a **metering installation** to be lower than would otherwise be the case under clause 5(a) of this Schedule, provided that,—
- “(a) if the circumstance in subclause (1)(a) applies, when **certifying** the **metering installation**, determine the category of the **metering installation** by reference to the maximum current setting of the protection device and, when doing so, the **ATH** must—
 - “(i) confirm the suitability and operational condition of the protection device; and
 - “(ii) record, in the **metering records**, the rating and setting of the protection device; and
 - “(iii) seal the protection device under clause 47; and
 - “(iv) apply, if practicable, a warning tag to the seal under clause 47(6):
 - “(b) if the circumstance in subclause (1)(b) applies, the **ATH** must, when **certifying** the **metering installation**, determine the **metering installation** category according to the **metering installation**’s expected maximum current but only—
 - “(i) at the request of the **metering equipment provider**; and
 - “(ii) if the **ATH** considers it appropriate in the circumstances:
 - “(c) if the circumstance in subclause (1)(c) or subclause (1)(d) applies and the primary voltage is less than 1 kV, when **certifying** the **metering installation**, the **ATH** must determine the **metering installation** as category 2:
 - “(d) if the circumstance in subclause (1)(c) or subclause (1)(d) applies and the primary voltage is greater than or equal to 1 kV, when **certifying** the **metering installation**, the **ATH** must determine the **metering installation** as category 3.
- “(2A) If when **certifying** a **metering installation** an **ATH** determines the category of a **metering installation** under—
- “(a) subclause (2)(b), then the **metering equipment provider** responsible for the **metering installation** must, each month, obtain a report from the **participant interrogating** the **metering installation** which details the maximum current conveyed through the **metering installation** for the prior month:
 - “(b) subclause (2)(c), then the **metering equipment provider** responsible for the **metering installation** must, each month during the **certification** period, obtain a

report from the **participant interrogating the metering installation** which details the total kWh consumption of the **metering installation** for the prior 12 months.

“(2B) For the purposes of subclause (2A)(a), the **metering equipment provider** must determine the maximum current from **raw meter data** from the **metering installation** either:

- (a) by calculation from the kVA by **trading period** if available; or
- (b) from a maximum current indicator if fitted in the **metering installation**.

“(2C) If a **metering equipment provider** does not receive the report under subclause (2A)(a) in any month, or the report demonstrates that the maximum current conveyed through the **point of connection** at any time during the previous month exceeded the maximum permitted current for the **metering installation** category as **certified, certification** for the **metering installation** to which the report relates is automatically cancelled from—

- “(a) the date on which the **metering equipment provider** should have received the report; or
- “(b) the date on which the **metering equipment provider** received the report if earlier.

“(2D) If a **metering equipment provider** does not receive the report under subclause (2A)(b) in any month, or the report identifies that the **electricity** conveyed through the **point of connection** exceeded 0.5 GWh during the previous 12 month period, the **certification** for the **metering installation** to which the report relates is automatically cancelled from—

- “(a) the date on which the **metering equipment provider** should have received the report; or
- “(b) the date on which the **metering equipment provider** received the report if earlier.”

26 Schedule 10.7, clause 8 amended

In Schedule 10.7, clause 8(2),—

- (a) in paragraph (b) delete “either”; and
- (b) in paragraph (b)(ii) replace “and” with “or”; and
- (c) after paragraph (b)(ii) insert:
 - “(iii) **half hour** and non **half hour**; and”;
- (d) replace paragraph (c) with:
 - “(c) determine the **services access interfaces** for the **metering installation** under clause 10 of Schedule 10.4 and record in the **metering installation certification report**—
 - “(i) each **services access interface**; and
 - “(ii) the conditions under which each **services access interface** may be used; and”.

27 Schedule 10.7, clause 9 amended

In Schedule 10.7, clause 9(1),—

- (a) after “or” insert “Table”; and
- (b) replace paragraph (c) with:
 - “(c) to carry out a **raw meter data** output test for a **category 1 metering installation**

or **category 2 metering installation**, must do so by—

- “(i) applying a load on each phase that is—
 - “(A) greater than 5% of the **meter's** maximum rated current for a **category 1 metering installation**; or
 - “(B) 10 amps on each phase for a **category 2 metering installation**; and
- “(ii) using either the **working standard** referred to in subclause (1)(a) or an ammeter in good working order with an accuracy range of +/- 5% to measure the load applied to the **metering installation** and—
 - “(A) recording the resulting increment of the **meter** register value over a measured period of time; or
 - “(B) recording the resulting accumulation of pulses from the load over a measured period of time; and
- “(iii) ensuring that the change in the **meter** register that occurs under subclause (ii)(A) or subclause (ii)(B) is at least "1" in the least significant digit, or one mark if the least significant digit does not have numerical markings; and
- “(iv) if the **meter** is a Ferraris disc **meter**, undertaking two **raw meter data** output tests in which the second test must have a load applied to the **meter** that is at least double the load applied to the **meter** in the test carried out in accordance with subparagraph (c)(i) and measuring:
 - “(A) the increment of the sum of the **meter** registers; or
 - “(B) the accumulation of pulses resulting from the increase in load.”; and

(c) replace paragraph (d)(ii) with:

- “(ii) if the **raw meter data** is to be used for the purposes of Part 15, confirm that the **metering equipment provider's back office** processes include a comparison of:
 - “(A) the increment of the accumulating **meter** registers; and
 - “(B) the sum of the **half-hour metering raw meter data** for the same period.”

28 Schedule 10.7, clause 12 amended

In Schedule 10.7, clause 12,—

- (a) after subclause (1), insert—
 - “(1A)The **comparative recertification** method may only be used to recertify a **category 2 metering installation**.”; and
- (b) in subclause (2)(b), replace “has been **certified**” with “is **certified** at the date of **recertification**”; and
- (c) after subclause (2), insert:
 - “(2A)For the avoidance of doubt, an **ATH** may use the **comparative recertification** method to **recertify a category 2 metering installation** in accordance with this Part if the **certification** of the current transformers in the **metering installation** has expired.”

29 Schedule 10.7, clause 16 amended

In Schedule 10.7, after clause 16(2)(aa), insert:

- “(ab) if the group meets the **recertification** requirements of this Part use the appropriate maximum validity period set out in Table 5 of AS/NZS 1284 as the **certification** validity period for each **metering installation** in the group; and”.

30 Schedule 10.7, clause 19 amended

In Schedule 10.7, clause 19,—

- (a) in subclause (2), replace “clause” with “Part”; and
- (b) in subclause (2)(b), before “installation” insert “replacement,”; and
- (c) after subclause (2)(b), insert:
 - “(ba) replacing a **metering installation** with a new **metering installation**.”; and
- (d) after subclause (2A), insert:
 - “(2B) To avoid doubt, replacing a **metering component** or a **metering installation** is a modification of a **metering installation** under subclause (2) including when—
 - “(a) the replacement **metering component** or **metering installation** has the same or similar design and functionality as the existing **metering component** or **metering installation**; or
 - “(b) the **metering equipment provider** did not need to consult with a **distributor** or **trader** because clause 10.34(2C) applied.”; and
- (e) after subclause (3B), insert:
 - “(3C) Despite subclauses (1) and (2)(b), the **certification** of a **metering installation** is not cancelled, if clause 48(1A) to (1H) applies.”

31 Schedule 10.7, clause 20 amended

(1) In Schedule 10.7, clause 20(1),—

- (a) in paragraph (a), replace “19(6)” with “19(3C)”;
- (b) replace paragraph (f) with:
 - “(f) if under clause 6(2) the **metering installation** has been determined to be a lower category, and:
 - “(i) the **metering equipment provider** has not received, in any month, the report referred to in clause 6(2A)(a); or
 - “(ii) the report referred to in clause 6(2A)(a) demonstrates that the maximum current conveyed through the **metering installation**, at any time during the previous month, exceeded the maximum permitted current for the **metering installation** category as **certified**; or
 - “(iii) the **metering equipment provider** has not received, in any month, the report referred to in clause 6(2A)(b); or
 - “(iv) the report referred to in clause 6(2A)(b) identifies that the **electricity** conveyed through the **point of connection** exceeded 0.5 GWh during the previous 12 month period.”

(2) In Schedule 10.7, after clause 20(1)(i), insert:

- “(j) the **metering installation** is a **half-hour metering installation** and was **certified** after 29 August 2013, the **service access interface** is the **metering equipment provider’s back office**, and the **metering equipment provider**—
 - “(i) fails to comply with clause 8(2)(b) of Schedule 10.6; or
 - “(ii) fails to comply with clause 8(9) of Schedule 10.6; or
 - “(iii) performs the comparison in clause 8(9) of Schedule 10.6 but—
 - “(A) the difference between the sum of the **half hour metering raw meter data** and the increment of the **metering installation’s** accumulating **meter** registers is greater than 1kWh; and

“(B) the **metering equipment provider** has failed to remediate the issue causing the difference and provide the correct data within three **business days**.”

(2) In Schedule 10.7, clause 20, replace subclause (2) with:

“(2) A **metering equipment provider** must, within 10 **business days** of becoming aware that 1 of the events in subclause (1) has occurred in relation to a **metering installation** for which it is responsible—

“(a) update the **metering installation’s certification** expiry date in the **registry**; and

“(b) if any one of the events in subclause (1)(j) has occurred, update the **metering installation’s** AMI flag to “N” in the registry.

“(3) The obligations in subclause (2) do not apply if the **metering installation** is **recertified** within the 10 **business days** specified in subclause (2).”

32 Schedule 10.7, clause 24 amended

In Schedule 10.7, clause 24(1),—

(a) in subclause (1)—

(i) delete “to adjust **raw meter data**”; and

(ii) in paragraph (b), replace “to be applied to **raw meter data** external to the **metering installation** can only be” with “, whether internally or externally applied, is only”; and

(b) in subclause (3)—

(i) replace “a **compensation factor**” with “an external **compensation factor**”; and

(ii) in paragraph (b), replace “Part 11” with “Table 1 of Schedule 11.4”.

33 Schedule 10.7, clause 27 amended

In Schedule 10.7, clause 27,—

(a) revoke subclause (2)(b); and

(b) in subclause (4) before “meter is not installed” delete “an electromechanical”.

34 Schedule 10.7, clause 28 amended

In Schedule 10.7, clause 28(4),—

(a) replace paragraph (b) with:

“(b) using the **fully calibrated certification** method or the **comparative recertification** method, ensure that the **ATH** calculates the maximum permitted error in accordance with clause 22; and”; and

(b) in paragraph (i)—

(i) after “total” insert “in-service”; and

(ii) replace “does not exceed—” with “complies with clause 31.”; and

(iii) revoke subparagraphs (i) and (ii).

35 Schedule 10.7, clause 31 amended

In Schedule 10.7, replace clause 31(7) with:

“(7) An **ATH** must, before it **certifies** a **metering installation** incorporating a **measuring transformer**,—

“(a) ensure that the in-service burden (magnitude and phase angle, where appropriate) on the **measuring transformer** does not exceed the upper limit of the range specified for the **measuring transformer** if specified in the design report for the **metering installation**; and

“(b) ensure that the in-service burden on the **measuring transformer** is within the range specified in the **certification report** for the **measuring transformer** by

- installing burdening resistors to increase the in-service burden if necessary; or
- “(c) confirm that—
- “(i) if the primary voltage of the **measuring transformer** is greater than 1kV, a **class A ATH** has confirmed by **calibration** that the accuracy of the **measuring transformer** will not be adversely affected by the in-service burden being less than the lowest burden test point specified in the standard; or
 - “(ii) the **measuring transformer's** manufacturer has confirmed that the accuracy of the **measuring transformer** will not be adversely affected by the in-service burden being less than the lowest burden test point specified in the standard.”

36 Schedule 10.7, clause 32 amended

In Schedule 10.7, clause 32(1)(d), before “the **metering equipment provider**” insert “in the case of an **ICP** that is not an **NSP**, ”.

37 Schedule 10.7, clause 36 amended

In Schedule 10.7, clause 36(4), after “The maximum **interrogation cycle**” insert “for each **services access interface**”.

38 Schedule 10.7, clause 41 amended

In Schedule 10.7, clause 41, after subclause (4), insert:

- “(5) If an **ATH** certifies a **metering component** of a **metering installation** on the same day that the **ATH** certifies the **metering installation**, the **ATH** may combine the **metering installation certification sticker** under subclause (1) with the **metering component certification sticker** under clause 8(1) of Schedule 10.8.
- “(6) If an **ATH** combines a **metering installation certification sticker** with the **metering component certification sticker** under subclause (5), the **ATH** must—
- “(a) ensure that the combined sticker shows all the information required by subclause (2) and clause 8(2) of Schedule 10.8; and
 - “(b) meet the requirements of subclauses (1), (3) and (4), as if the combined sticker were a **metering installation certification sticker**.
- “(7) The combined sticker under subclause (5) is immediately invalid if—
- “(a) the **metering installation** certification expiry date changes; or
 - “(b) a **metering component** to which the combined **certification sticker** relates is removed from the **metering installation**.
- “(8) For the avoidance of doubt, the **certification** of any **metering component** that is not removed from the **metering installation** does not become invalid under subclause (7).
- “(9) An **ATH** must, when attaching a **metering installation certification sticker** under subclause (1), remove or obscure any invalid or expired **certification stickers**.”

39 Schedule 10.7, clause 45 amended

(1) In Schedule 10.7, clause 45, replace subclauses (1)(a) and (b) with:

- “(a) an **ATH** has completed an inspection of each **category 1 metering installation** for which the **metering equipment provider** is responsible within the period set out in Table 1 of Schedule 10.1, starting from the date of the **metering installation's** most recent **certification** or inspection; or
- “(b) if the **metering equipment provider** is responsible for any **category 1 metering installations** that were **certified** more than 84 months ago, the **metering equipment**

provider inspects a sample of all **category 1 metering installations**.”.

- (2) In Schedule 10.7, clause 45, after subclause (1), insert:
“(1A) When inspecting a sample of **category 1 metering installations** under subclause (1)(b), the **metering equipment provider** must—
“(a) complete the inspections each 12 month calendar year between 1 January and 31 December; and
“(b) perform the first inspection in the same calendar year the oldest **metering installation** reaches 84 months since certification.”.
- (3) In Schedule 10.7, clause 45, in subclause (2),—
(a) in paragraph (a), delete “, other than **interim certified metering installations**”; and
(b) replace paragraph (b) with:
“(b) removing from the list of **ICP identifiers**, any **ICP identifier** for a **metering installation** that has been **certified** or inspected in the 84 months prior to 31 December in the year in which the list was produced; and”

40 Schedule 10.7, clause 48 amended

- (1) In Schedule 10.7, clause 48(1),—
(a) replace “Despite clause 10.12, a” with “A”; and
(b) after “**metering installation**” insert “, other than in accordance with subclauses (1A) to (1F),”.
- (2) In Schedule 10.7, after clause 48(1), insert:
“(1A)A **distributor** may interfere with a **metering installation** without authorisation of the **metering equipment provider** responsible for the **metering installation** to reset a load control switch contained within a load control device or bridge or unbridge a load control switch if—
“(a) the load control switch does not control a **time block meter channel**; and
“(b) the **distributor** provides the load control signal to the load control device.
“(1B)A **distributor** that removes or breaks a seal in accordance with subclause (1A) must—
“(a) ensure that the personnel it uses to remove or break the seal are qualified or trained to a level sufficient to ensure they can safely remove or break the seal, bridge and unbridge the load control switch, and replace the seal in accordance with this Code; and
“(b) replace the seal with its own seal and have a process for tracing the new seal to the personnel that removed or broke the seal for the **distributor**; and
“(c) advise the **trader** and **metering equipment provider** responsible for the **ICP** at which the **metering installation** is located if the load control switch has been bridged or unbridged.
“(1C)A **trader** that is advised under subclause (1B)(c) must, if the **profile** code has changed, advise the **registry manager** of the updated **profile** code for the **ICP** in accordance with clause 10 of Schedule 11.1.
“(1D)A **trader** may remove or break a seal without authorisation of the **metering equipment provider** responsible for the **metering installation** to reset a load control switch or bridge or unbridge a load control switch if the load control switch does not control a **time block meter channel**.
“(1E)A **trader** may remove or break a seal in a **metering installation** without authorisation of the **metering equipment provider** responsible for the **metering installation**—
“(a) to **electrically connect** the load or **generation** measured by the **meter** if the load

or **generation** has been **electrically disconnected** at the **meter**; or

“(b) to **electrically disconnect** the load or **generation** measured by the **meter** if the **trader** has exhausted all other appropriate methods of **electrical disconnection**;
or

“(c) to bridge the **meter**.

“(1F) A **trader** that removes or breaks a seal in accordance with subclause (1D) or (1E) must—

“(a) ensure that the personnel it uses to remove or break the seal are qualified or trained to a level sufficient to ensure they can safely remove or break the seal, perform the permitted work described in subclause (1D) or (1E), and replace the seal, in accordance with this Code; and

“(b) replace the seal with its own seal and have a process for tracing the new seal to the personnel that removed or broke the seal for the **trader**; and

“(c) if the **profile** code has changed, advise the **registry manager** of the updated **profile** code for the **ICP** in accordance with clause 10 of Schedule 11.1; and

“(d) advise the **metering equipment provider** that is responsible for the **metering installation** in which the seal is located that the seal has been broken and what permitted work has been performed.

“(1G) A **metering equipment provider** that has been advised under subclause (1B)(c) or (1F)(d) must advise the **registry manager** of the updated **meter** register content code for the relevant **meter** channel if required.”

(3) In Schedule 10.7, after clause 48(7), insert:

“(8) If a person removes or breaks a seal without authorisation of the **metering equipment provider** responsible for the **metering installation** in which the seal is located or not in accordance with subclauses (1A) to (1F), the **metering equipment provider** or the **ATH** responsible for **certifying** the **metering component** are not liable for any breach of this Code that results from the person’s actions, provided the **metering equipment provider** or **ATH** can prove the seal had not been removed or broken when the **metering equipment provider** or **ATH** last performed work at the **metering installation**.”

41 Schedule 10.8, clause 1 amended

In Schedule 10.8, clause 1,—

(a) after subclause (1)(d)(ii), insert:

“(iia) if the **certification** validity period referred to in subparagraph (ii) is less than the maximum **certification** validity period permitted under Table 1 of Schedule 10.1, the reasons for the shorter **certification** validity period; and”

(b) in subclause (2), —

(i) replace “Table 2” with “Table 1”; and

(ii) replace “class of **meter**” with “categories of **metering installations** in which the **meter** may be used”.

42 Schedule 10.8, clause 2 amended

In Schedule 10.8, clause 2,—

(a) revoke paragraph (c); and

(b) in paragraph (d), replace “.” with “; and”; and

- (c) after paragraph (d) insert:
- “(e) determine the range, including highest and lowest values, that the in-service burden must be within to ensure the **measuring transformer** remains accurate, by using one or more of the following:
 - “(i) the **measuring transformer’s** nameplate rating;
 - “(ii) the **calibration report** for the **measuring transformer**;
 - “(iii) the manufacturer’s documentation for the **measuring transformer**;
 - “(iv) the standard set out in Table 5 of Schedule 10.1 the **measuring transformer** was manufactured to.”

43 Schedule 10.8, clause 3 amended

In Schedule 10.8, after clause 3(c)(v) insert:

- “(vi) the range, including highest and lowest values, that the in-service burden must be within; and”.

44 Schedule 10.8, clause 8 amended

In Schedule 10.8, clause 8, after subclause (3) insert:

- “(4) If an **ATH** certifies the **metering component** on the same day it certifies the **metering installation** that the **metering component** is installed in, the **ATH** may combine the **metering component certification sticker** under subclause (1) and the **metering installation certification sticker** under clause 41 of Schedule 10.7 and attach it to the **metering installation** in accordance with clause 41 of Schedule 10.7.”

45 Schedule 11.1, clause 25 amended

In Schedule 11.1, clause 25, after subclause (4) insert:

- “(5) The **participant** required to give notice under subclause (1) must give notice no later than 30 days prior to the intended date of creation or **decommissioning** of the NSP.
- “(6) If a **participant** changes the intended date of creation or **decommissioning** after giving notice under subclause (1), the **participant** must give a replacement notice advising the new intended date of creation or **decommissioning**, as soon as possible after the **participant** decides to change the intended date.”

46 Schedule 11.4, clause 3 amended

(1) In Schedule 11.4, clause 3, replace “10 **business days** following:” with “—“.

(2) In Schedule 11.4, clause 3, revoke paragraphs (a) and (b).

(3) In Schedule 11.4, after clause 3(b), insert:

- “(c) if updating the **registry metering records** in accordance with clause 8(11)(b) of Schedule 10.6, 10 **business days** following the most recent unsuccessful **interrogation**;
or
- “(d) if updating the **registry metering records** in accordance with clause 8(13) of Schedule 10.6, 3 **business days** following—
 - “(i) the expiry of the time period under clause 8(12) of Schedule 10.6; or
 - “(ii) the date on which the **metering equipment provider** determines in an investigation under clause 8(11)(a) of Schedule 10.6 that it cannot restore communications or fully download the **raw meter data**; or
- “(e) in all other cases, 10 **business days** following:

- “(i) the **electrical connection** of an **ICP** that is not also an **NSP**; or
- “(ii) any subsequent change in any matter covered by the **metering records** other than a change to which subparagraphs (c) and (d) apply.”

47 Schedule 11.4, clause 7 amended

In Schedule 11.4, clause 7, after subclause (1) insert:

“(1A) Despite subclause (1) a **metering equipment provider** is not required to provide to the **registry manager** the information indicated in rows 23 to 30 of Table 1 as being "Required", if the information is used only for the purpose of a **distributor** direct billing **consumers** on its **network**.”

48 Schedule 11.4, Table 1 amended

In Schedule 11.4, Table 1,—

- (a) in row 6, replace column 3 with:
“the **certification** type of the **metering installation** which must be **half hour** or non **half hour** as identified in the **metering installation certification report** or, where both **half hour** and non **half hour** are specified as the **certification type** in the **metering installation certification report**, must be one of those **certification types**.”; and
- (b) in row 18, column 3, after “device” insert “and the **metering equipment provider’s back office** is the **services access interface**”; and
- (c) replace row 19 with:

19	registry compensation factor	the mathematical product of all compensation factors that the trader must apply to transform the raw meter data into volume information	Required for meter or data storage device . Optional for all other metering components .	Required for meter or data storage device . Optional for all other metering components .
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- (d) in rows 23 to 30, columns 4 and 5, after “Required” insert “(except where clause 7(1A) of this Schedule applies)” in each place.

49 New clause 2A of Schedule 15.2 inserted

In Schedule 15.2, after Table 1, insert:

“2A Meter readings from bridged meters

If a **meter** is bridged in accordance with clause 10.33C, the **trader** responsible for the **ICP** must determine **meter readings** for that **meter** as follows:

- “(a) if a check **meter** or **data storage device** is installed at the **metering installation**, by substituting data from the check **meter** or **data storage device** for the period the **meter** was bridged; or
- “(b) in the absence of any check **meter** or **data storage device**, by determining **meter readings** for the period the **meter** was bridged from—
 - “(i) **half hour** data from another period where the **trader** considers the pattern of consumption is materially similar to the period during which the **meter** was

bridged; or

- “(ii) a non **half hour estimated reading** that the **trader** considers is the best estimate of the quantity of **electricity** consumed during the period the **meter** was bridged.”

50 Schedule 15.2, clause 17 amended

(1) In Schedule 15.2, clause 17(4),—

(a) replace paragraph (f) with:

“(f) a review of the **meter** and **data storage device** event log for any event that could have affected the integrity of the **metering data**.”; and

(b) after paragraph (f) insert:

“(g) a review of the relevant **metering data** if there was an event that could have affected the integrity of the **metering data**.”

(2) In Schedule 15.2, after clause 17(4) insert:

“(5) A **reconciliation participant** must, if it finds an event that could have affected the integrity of the **metering data** or an event is reported to it under clause 8(5A)(d) of Schedule 10.6,—

“(a) investigate and remediate the event if the **metering equipment provider** responsible for the **metering installation** is not responsible for investigating and remediating the event; and

“(b) advise the **metering equipment provider** responsible for the relevant **metering installation** of the event if the investigation finds that the event may affect the integrity or operation of the **metering installation**.”

Explanatory Note

This note is not part of the amendment, but is intended to indicate its general effect.

This amendment to the Electricity Industry Participation Code 2010 ("Code") comes into force on 1 February 2021.

The amendment makes a number of improvements to the Code that the Authority had identified in the course of its operational review of metering and related registry processes. The amendment makes changes to Parts 1, 10, 11, and 15 of the Code. The changes include to:

- (a) insert a new clause 10.13A to prohibit net metering in respect of ICP's with a category one or two metering installation;
- (b) amend clause 10.22 to provide more detail of the circumstances in which the costs of certification may be claimed when a consumer installation changes from one metering equipment provider ("MEP") to another MEP;
- (c) amend clause 10.25 to align the timeframes for the provision of information under that clause with those set out in clause 10.30;
- (d) add new clauses 10.29B, 10.29C, 10.30B, 10.30C, 10.31C and 10.33B, and replace clauses 10.30 and 10.30A, to change the circumstances under which points of connection may be electrically disconnected, physical disconnected and electrical connected;
- (e) add a new clause 10.33C and amend clause 2A of Schedule 15.2 to permit meter bridging;
- (f) amend clause 10.34 and clause 19 of Schedule 10.7 to clarify the requirements relating to

like-for-like replacements of components in metering installations and of metering installations;

- (g) add a new clause 10.46A to set a timeframe for MEP's to correct defects and inaccuracies in metering installations;
- (h) amend the heading to clause 10.47 to better describe the content of that clause;
- (i) amend Table 1 of Schedule 10.1:
 - (i) to include a voltage transformer in the defining characteristics of category two, three and four metering installations at sites with a voltage under 1kV;
 - (ii) in relation to certification validity periods; and
 - (iii) to clarify the requirements for maximum inspection periods;
- (j) amend Table 3 of Schedule 10.1 to make various changes to the minimum test requirements for metering component certification and comparative recertification;
- (k) amend clause 4 of Schedule 10.3 to change the requirements relating to ISO9001 certification for class B ATH (an "ATH" means a person who is approved under Schedule 10.3 to operate an approved test house);
- (l) amend a number of clauses in Schedule 10.4, Schedule 10.6, Schedule 10.7, and Schedule 11.4 dealing with metering installation certification reports by MEP's and the requirements for MEP updates to the half hour and non-half hour flags and AMI flags within the registry;
- (m) amend Schedule 10.6, Schedule 10.7 and Schedule 11.4 to clarify the obligations to apply compensation factors to raw meter data for MEP's, and a related amendment to the definition of "compensation factor";
- (n) amend clause 8 of Schedule 10.6 and clause 17 of Schedule 15.2 to clarify the obligations of participants to monitor event logs;
- (o) amend subclauses 8(8) and 8(9) of Schedule 10.6, and clauses 9(1) and 20 of Schedule 10.7, to change some requirements for MEP's back office processes in relation to half-hour metering raw meter data and to vary the situations in which the certification of half-hour metering installations is automatically cancelled;
- (p) amend clause 9 of Schedule 10.7 to modify the requirements for raw meter data output tests;
- (q) amend clause 12 of Schedule 10.7 to provide greater clarity around when comparative certification may be used by MEP's to recertify a metering installation;
- (r) amend clause 24 of Schedule 10.7 to clarify that compensation factors can only be applied to metering installations in specific circumstances, and that only external compensation factors are to be advised to reconciliation participants and the registry manager;
- (s) amend clauses 16 and 45 of Schedule 10.7, and clause 1 of schedule 10.8, in relation to certification validity periods;
- (t) amend clauses 28 and 31 of Schedule 10.7, and clauses 2 and 3 of Schedule 10.8, in relation to the certification of metering transformers in metering installations, the burden carried by metering transformers and other requirements relating to metering transformers;
- (u) amend clause 32 of Schedule 10.7 to clarify when alternate certification may be used to permit an ATH to use a single certification sticker for both the metering component and the metering installation the component is part of;

- (v) amend clause 41 of Schedule 10.7 to require an ATH affixing a new certification sticker to a metering installation to, as part of the same site visit, remove or obscure any invalid or expired certification stickers;
- (w) amend clause 45 of Schedule 10.7 to clarify the methodological requirements for statistical sampling and to omit the now unneeded reference to interim certified metering installations;
- (x) amend clauses 19, 20 and 48 of Schedule 10.7 and insert a definition of “time block meter channel” in Part 1 to permit meter bridging in exceptional circumstances, and make a consequential amendment to clause 10.12;
- (y) amend clause 25 of Schedule 11.1 in relation to the notification of creation or decommissioning of an NSP;
- (z) amend clause 7 of Schedule 11.4 to provide that MEP’s do not need to be recorded in the register that are used solely for the direct billing of consumers by distributors;
- (aa) amend some of the definitions in Part 1 consistent with the above changes; and
- (bb) clarify the meaning of various of the clauses referred to above.

Date of notification in the *Gazette*: 15 December 2020