

ELECTRICITY METERING CODE

EMTC/08

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1. PRELIMINARY

1.1. Definitions

- 1.1.1. Words appearing in bold like **this** are defined in the Schedule.
- 1.1.2. References to **Australian Standards** are references to standards existing from time to time, or where they are superseded, their replacements.

1.2. Authority

- 1.2.1. This industry code is made by the **Commission** under section 28 of the *Essential Services Commission Act 2002*.

1.3. Application

- 1.3.1. This industry code regulates standards for **meters** and **metering installations** at **customer connection points** and **connection points** for **non-market generators**:
 - (a) in respect of chapters 3 and 5 for all **connection points**; and
 - (b) in respect to chapters 2 and 4 for;
 - (i) unmetered **connection points** that have not been classified as **market load** in accordance with the **National Electricity Rules**;
 - (ii) **connection points** to an **embedded network** where a **child** has not chosen its own **retailer**; and
 - (iii) **connection points** to an **off grid distribution system**.
- 1.3.2. The persons bound by this industry code are **retailers**, **distributors**, persons exempt from holding a **distribution licence**, operators of **off grid distribution systems** and **generators** (to the extent provided in this industry code).

1.4. Obtaining a Copy of this Industry Code

- 1.4.1. A person responsible for the **metering installation** must, when asked by a **customer**, send to that **customer** within 10 **business days** a copy of this industry code (and any amendments from time to time), free of charge for the first request.
- 1.4.2. A person responsible for the **metering installation** may impose a reasonable charge for subsequent requests.



1.5. Other Acts, Industry Codes and guidelines

1.5.1. Not all aspects of a **retailer's, distributor's**, exemptee's or **generator's** obligations are regulated by this industry code. The **retailer's, distributor's**, person's exempt from holding a **distribution licence** and **generator's** obligations and some aspects of the relationship with a **customer** are also affected by:

- (a) Acts of Parliament and Regulations (in particular, the *Electricity Act 1996* and the *Essential Services Commission Act 2002* (and associated regulations));
- (b) the **National Electricity Rules National Energy Retail Law, National Energy Retail Regulations** and **National Energy Retail Rules**;
- (c) the Electricity Distribution Price Determination;
- (d) any guidelines or rules made by the **Commission** from time to time;
- (e) the Electricity Distribution Code and Electricity Transmission Code; and
- (f) relevant licences or authorisations (as the case may be).

2. METERING PROVISION SERVICES FOR CONNECTION POINTS NOT IN THE NATIONAL ELECTRICITY MARKET

2.1. Application of Chapter 2

- 2.1.1. This chapter applies to each **metering installation** installed at a **connection point** in accordance with clause 1.3.1(b).
- 2.1.2. **Metering installations** in service in South Australia immediately prior to 1 January 2003 will be deemed to comply with the requirements prescribed by this industry code.

2.2. Responsibility for metering provision

- 2.2.1. The person responsible for the **metering installation** at each **connection point** is:
- (a) the **distributor** for an unmetered **connection point** to its **distribution system**;
 - (b) the person exempt from holding a **distribution licence** for that **embedded network** for a **connection point** to an **embedded network** where the **customer** has not chosen its own **retailer**; and
 - (c) the **distributor** or operator, as the case may be, in regard to an **off grid distribution system** for **connection points** to its **off grid distribution system**.
- 2.2.2. The person responsible for the **metering installation** must ensure that each **connection point** has a **metering installation** provided, installed, commissioned, tested and maintained in accordance with this industry code except for the **metering installations** in clause 2.2.3.
- 2.2.3. The person responsible for a **metering installation** in **embedded networks** is only required to install an interval meter when requested to do so by the **customer** or the **customer's retailer**.

2.3. Unmetered Connection Points

- 2.3.1. A **connection point** must be metered in accordance with this industry code unless the person responsible for the **metering installation** determines that the **connection point** meets the criteria for the classification as a **metering installation type 7** in accordance with Schedule S7.2.3 of the **National Electricity Rules**.



2.4. Non-Market Generators

- 2.4.1. The person responsible for the **metering installation** must ensure that the **metering installation** for a **non-market generator** meets the requirements of the **National Electricity Rules** and this industry code unless otherwise agreed to by the **Commission**.
- 2.4.2. A new **metering installation** for a **non-market generator** must be installed in accordance with this industry code and any reasonable requirements of the **distributor**.

2.5. Changing Tariffs

- 2.5.1. If the **distributor** or **retailer** wants to introduce a new distribution or retail tariff, or change an existing distribution or retail tariff, which requires new or different **metering installations** or for existing **metering installations** to be operated in a different manner, the **distributor** or **retailer** must seek agreement with the person responsible for the **metering installation** prior to the introduction of the new tariff or change to an existing tariff.
- 2.5.2. The person responsible for the **metering installation** must not unreasonably withhold its agreement to a request made under clause 2.5.1.

2.6. Installation

- 2.6.1. The person responsible for the **metering installation** must install a **metering installation** at or as near as practicable to the **connection point**.
- 2.6.2. The person responsible for the **metering installation** must ensure that new **metering installations** are installed and commissioned for:
 - (a) **connections points** under clause 1.3.1(b) (ii) in a safe manner only by a registered **metering provider**; and
 - (b) **connections points** under clause 1.3.1(b) (iii) in a safe manner by an appropriately qualified person.
- 2.6.3. The person responsible for the **metering installation** must install a **metering installation** in a position which allows safe and unimpeded access to any person whose obligation it is to test, adjust, maintain, repair, replace or collect **metering data** from the **metering installation**.
- 2.6.4. If the distribution or retail tariff payable for the supply of electricity in respect of a **connection point** of a **customer** changes, and the **metering installation** is thereafter incapable of appropriately measuring and recording the amount of electricity supplied to that **connection point**, the person responsible for the **metering installation** must provide, install, commission, test and maintain the

new **metering installation** to appropriately measure and record the amount of electricity supplied to the **customer's connection point**.

- 2.6.5. The cost of providing and installing a new **metering installation** under clause 2.6.4 shall, to the extent permitted by this industry code or an **applicable regulatory instrument**, be paid by the party that initiates the change.
- 2.6.6. A **meter** and **data logger** (where required) must be mounted on an appropriately constructed panel in accordance with clause 7.3.1(b)(4) of the **National Electricity Rules**.

2.7. Metering installations

- 2.7.1. Subject to clause 2.1.2, the person responsible for the **metering installation** must ensure that each **metering installation** incorporates all the relevant requirements of the **National Electricity Rules** and the **Metrology Procedure** including, but not limited to,:
- (a) the design and pattern approval requirements of Schedule S7.2 of the **National Electricity Rules**;
 - (b) the **minimum standards** of accuracy in accordance with Schedule S7.2 of the **National Electricity Rules** taking into account, among other things, the **annual electricity consumption level** at the **connection point**;
 - (c) display, settings and suitability in accordance with clause 7.3.1(a) and Schedules S7.2 5 and S7.4.1(e) of the **National Electricity Rules**; and
 - (d) the capability to store internally records of the amount of electricity supplied in accordance with clause 7.3.1(a)(6) of the **National Electricity Rules**.
- 2.7.2. The person responsible for the **metering installation** must ensure that when a **metering installation** is installed, it is checked in accordance with clause 2.7.1(c) of Part A of the **Metrology Procedure**.
- 2.7.3. A person bound by this industry code must not tamper with or calibrate a **meter** with the purpose of introducing bias in the **meter**.

2.8. Meter Testing and Maintenance

- 2.8.1. The person responsible for the **metering installation** must ensure that **metering installations** are maintained and tested for:
- (a) **connections points** under clause 1.3.1(b) (ii) in a safe manner only by a registered **metering provider**; and



- (b) **connections points** under clause 1.3.1(b) (iii) in a safe manner by an appropriately qualified person.
- 2.8.2. The person responsible for **metering installations** must carry out tests of **metering installations** in accordance with the relevant inspection and testing requirements of clause 7.6 and Schedule S7.3 of the **National Electricity Rules** and clause 2.6 of Part A of the **Metrology Procedure**.
- 2.8.3. The person responsible for the **metering installation** must keep records of tests under this clause 2.8 in accordance with clause 7.6.4 of the **National Electricity Rules**.
- 2.8.4. The person responsible for the **metering installation** must provide copies of the results from any testing of **meters**, or unmetered **connection points**, to the **retailer** on request.
- 2.8.5. The person responsible for the **metering installation** must conduct tests in respect of unmetered **connection points** in accordance with clauses 3.9.4 to 3.9.9 of Part A of the **Metrology Procedure**.
- 2.8.6. For the purpose of this clause 2.8, all references in the **Metrology Procedure** to:
- (a) affected **Rule Participants** is a reference to affected parties;
 - (b) a **responsible person** is a reference to the person responsible for the **metering installation**;
 - (c) the financially responsible market participant are references to the relevant **retailer**;
 - (d) an asset management strategy are references to a maintenance plan;
 - (e) the local network service provider are references to the **distributor**; and
 - (f) type 7 **metering installation** are references to an unmetered **connection point**.

2.9. Repair or Replacement of Defective Meters

- 2.9.1. Unless otherwise agreed by the **Commission**, if a test conducted in accordance with this industry code demonstrates that any **meter** is **defective**, the person responsible for the **metering installation** must repair or replace that **meter** in accordance with clause 7.11.2(a) of the **National Electricity Rules**.

2.10. Switching and Time Keeping

- 2.10.1. Unless otherwise agreed by the **Commission**, where tariffs for the sale of electricity to a **customer** are based on different rates according to the time of

day, the person responsible for the **metering installation** must install and maintain an **interval meter**, or a **meter** that:

- (a) includes a clock complying with **AS 1284.7**;
- (b) has a clock that is automatically adjusted on each occasion it is accessed electronically, and effectively remain within the time-keeping standards imposed by **AS 1284.7**; or
- (c) for multiple rate induction type **meters**, includes a time switch which has a tolerance of timekeeping of +/- 30 minutes.

2.10.2. Where tariffs for the sale of electricity are based on 30-minute demand integration period, then the start of each integration period will be on the hour, and on the half-hour.

2.11. Seals

2.11.1. The person responsible for the **metering installation** must:

- (a) in respect of new **meters** provide seals or other appropriate devices to detect interference; and
- (b) maintain a register of all relevant security fitting tools and seals.

2.12. Broken Seals

2.12.1. Following notification that a seal has been broken the person responsible for the **metering installation** must replace a broken seal on the earlier of:

- (a) the first occasion the **metering installation** is visited to take a reading; or
- (b) **70 business days**.

2.12.2. The costs of replacing seals which are broken are borne:

- (a) if the seal was broken by the **retailer**, by the **retailer**; or
- (b) otherwise by the person responsible for the **metering installation**.

2.12.3. If as a result of or in connection with the breaking of a seal, the relevant **metering installation** can no longer meet the relevant **minimum standards** of accuracy, the person responsible for the **metering installation** must:

- (a) test the **metering installation** in accordance with clause 2.8; or
- (b) replace the **metering installation** in accordance with clause 2.9.

3. METERING PROVISION SERVICES FOR ALL CONNECTION POINTS

3.1. *Application of Chapter 3*

- 3.1.1. This chapter applies to **metering installations** at all **connection points**.
- 3.1.2. In this chapter the person responsible for the **metering installation** may be the **responsible person** or the person responsible for the **metering installation** determined in accordance with clause 2.2.1.
- 3.1.3. The obligations on **responsible persons** in this chapter for **metering installations** at **connection points** are in addition to the obligations for **responsible persons** under the **National Electricity Rules** for those **connection points**.

3.2. *Installing meters of a higher standard*

- 3.2.1. The person responsible for the **metering installation** must not unreasonably withhold its consent to the request of a **customer** or a **customer's retailer** to install a **metering installation** of a type that is different from that already installed, or that the person responsible for the **metering installation** otherwise would install, provided that the **metering installation** satisfies any applicable technical requirements (including those reasonably required by the **distributor**).
- 3.2.2. The cost of providing and installing a new **metering installation** under clause 3.2.1 shall, to the extent permitted by this industry code or an **applicable regulatory instrument**, be paid by the party that initiates the change.

3.3. *Installation*

- 3.3.1. The person responsible for the **metering installation** must ensure that all wiring for a **metering installation** complies with **AS 3000** or, if **AS 3000** is not applicable, good industry practice. All wiring must be undertaken with at least 2.5mm² copper equivalent cross-sectioned area single insulated cable.
- 3.3.2. The person responsible for the **metering installation** must ensure that where **current transformers** or **voltage transformers** form part of the **metering installation**, the test blocks and potential fuses are installed so as to allow future modification to the **metering installation** without interruption to the **customer's** supply.
- 3.3.3. The person responsible for the **metering installation** must ensure that new metering panels meet the following requirements of **AS 3000**:

- (a) 'Construction of Switchboards', clause 2.22; and
 - (b) 'Material', clause 2.22.1.2.
- 3.3.4. The person responsible for the **metering installation** must not allow panels to be constructed of materials containing asbestos.
- 3.3.5. The person responsible for the **metering installation** must ensure that any new **metering installation** does not interfere with the **distributor's distribution system**.

3.4. Meter Testing and Maintenance Plan

- 3.4.1. Unless otherwise agreed by the **Commission**, the person responsible for the **metering installation** must annually prepare and submit to the **Commission** for approval a maintenance plan for **metering installations** for which it is responsible.
- 3.4.2. A maintenance plan prepared under clause 3.4.1 must be prepared in accordance with clause 2.6 of Part A of the **Metrology Procedure**.
- 3.4.3. The **Commission** will accept SA Power Networks' annual **Meter Testing and Maintenance Plan** approved by **AEMO**. The **AEMO** approved plan must be provided to the **Commission** by SA Power Networks within 2 weeks of receiving **AEMO's** approval.
- 3.4.4. The person responsible for the **metering installation** must, upon request by the **Commission**, provide the **Commission** with the results of any test conducted in accordance with this industry code or the **National Electricity Rules**.
- 3.4.5. A **retailer** or a **customer** may request that the person responsible for a **metering installation** make arrangements for the testing of a **metering installation**.
- 3.4.6. If the request for a test of a **metering installation** under clause 3.4.4 is reasonable the testing must be carried out:
- (a) in accordance with clause 2.8.2 for **connection points** under clause 1.3.1(b); or
 - (b) in accordance with clause 7.6 of the **National Electricity Rules** for **connection points** registered under the **National Electricity Rules**.
- 3.4.7. If, as a result of the test requested by a **retailer** or a **customer** under clause 3.4.5 the **metering installation** is found to be:
- (a) defective, the person responsible for the **metering installation** must bear the cost incurred in conducting the test; or



- (b) not defective, the person responsible for the **metering installation** may seek to recover the cost incurred in conducting the test.
- 3.4.8. The person responsible for the **metering installation** must, upon request, provide the **customer** with the results of the test conducted under clause 3.4.5 or clause 2.8.2 in accordance with **National Electricity Rules** clause 7.6.1 paragraphs (h) and (i).
- 3.4.9. If a test carried out under clause 3.4.5 or clause 2.8.2 requires the injection of current, then the person responsible for the **metering installation** must ensure that the subsequent bill issued to the **customer** is adjusted so that no material amount is payable by the **customer** in respect of electricity consumed during the test.
- 3.4.10. If a test carried out under clause 3.4.5 or clause 2.8.2 is based on actual **customer loads**, then no adjustment is required under this clause.

4. METERING DATA SERVICES FOR CONNECTION POINTS NOT IN THE NATIONAL ELECTRICITY MARKET

4.1. Application of Chapter 4

4.1.1. This chapter applies to *metering data services* for *metering installations* installed at *connection points* in accordance with clause 1.3.1(b).

4.2. Non-reversion in metering data services

4.2.1. where an *interval meter* is installed the person responsible for the *metering installation* must ensure that *interval energy data* is collected from that *interval meter* in accordance with clause 4.3 unless otherwise approved by the *Commission*.

4.3. Collection of Metering Data

4.3.1. The person responsible for the *metering installation* must collect data stored in a *metering installation* by reading the *meter* at the *customer's supply address* in accordance with this Chapter 4.

4.3.2. A *customer* may arrange with the person responsible for the *metering installation* or its *retailer* that the data stored in the *metering installation* be collected by the person responsible for the *metering installation*:

- (a) by inspecting the *metering installation*;
- (b) where the *metering installation* is capable of providing data by electronic means, by electronic means; or
- (c) where the *metering installation* is capable of providing data by any other means, by any other means.

4.3.3. The person responsible for the *metering installation* may charge a *customer* for the collection of *metering data* under clause 4.3.2 to the extent that its costs of collection are higher than they would otherwise be.

4.3.4. The person responsible for the *metering installation* must use its *best endeavours* to ensure that *interval energy data* or *accumulated energy data* is:

- (a) collected from all *metering installations* at least quarterly or, where a greater frequency has been agreed with a *customer* or a *customer's retailer*, at that greater frequency; and
- (b) collected from each manually read *metering installation* by means of an *actual meter reading* at least once in each 12 month period.



- 4.3.5. Where the person responsible:
- (a) is required under clause 4.3.4(a) to use its **best endeavours** to collect **interval energy data** or **accumulated energy data** from a **metering installation** at least quarterly; and
 - (b) has not obtained an **actual meter reading** in respect of that **metering installation** for three successive quarters by reason of the denial of access to the **metering installation** by the **customer**,
- then the person responsible must use its **best endeavours** to obtain an **actual meter reading** in respect of that **metering installation** for the subsequent quarter.
- 4.3.6. When **interval energy data** or **accumulated energy data** is not collected by a person responsible for the **metering installation** from a **metering installation** by way of an **actual meter reading** at the applicable meter reading frequency under clause 4.3.4(a), an **estimated read** must be obtained by the person responsible for the **metering installation**.
- 4.3.7. An **estimated read** obtained for the purposes of clause 4.3.5 must be provided to the **retailer** within 10 **business days** of the scheduled meter reading date under clause 4.3.4(a).
- 4.3.8. The person responsible for the **metering installation** must perform a **special meter read** at the request of a **customer** or a **customer's retailer**.
- 4.3.9. The person responsible for the **metering installation** must perform a final read at the request of a **customer** or a **customer's retailer**.
- 4.3.10. Where the **metering data** held in the **metering installation** is protected from direct or remote access by suitable password and security controls, such passwords and security controls must be used.
- 4.3.11. Passwords must be treated as confidential information in accordance with clause 5.4.
- 4.3.12. The original stored data in a **meter** must not be altered except when the **meter** is reset to zero as part of a repair or reprogramming.
- 4.3.13. If there is any discrepancy between:
- (a) the data stored in a **metering installation**, or where the **metering installation** is not capable of storing data, data collected from the **metering installation**; and
 - (b) **metering data** in respect of that **metering installation**;

the data contained in the **metering installation** is to be prima facie evidence of the amount of electricity supplied to the facilities of the relevant **connection point**.

- 4.3.14. For an unmetered **connection point**, if there is an inconsistency between the data held in the **metering installation** database and the **physical inventory**, the **physical inventory** is to be taken as prima facie evidence of the actual data.

4.4. Validation and Substitution of Metering Data

- 4.4.1. The person responsible for the **metering installation** must ensure that **metering data** collected from a **metering installation type 5** or **type 6** under clause 4.3:
- (a) is validated in accordance with clause 3.4.1 of Part A of the **Metrology Procedure**; and
 - (b) where necessary, is substituted in accordance with clause 3.5 of Part A of the **Metrology Procedure**.
- 4.4.2. The person responsible for the **metering installation** must ensure that **metering data** collected from a **metering installation type 1, 2, 3 or 4** under clause 4.3:
- (a) is validated in accordance with section 9 of Part B of the **Metrology Procedure**; and
 - (b) where necessary, is substituted in accordance with section 2 of Part B of the **Metrology Procedure**.
- 4.4.3. Where tests under clause 4.4.1(a) or clause 4.4.2(a) demonstrate that there has been a failure of the **metering installation** or that a measurement error exists, the **metering data** must be substituted in accordance with clause 4.4.1(b) or clause 4.4.2(b) and the person responsible for the **metering installation** must provide the substituted **metering data** to the **retailer** so that the **retailer** can meet its billing obligations.
- 4.4.4. The person responsible for the **metering installation** must maintain a separate record of the substitution made under clauses 4.4.1 and clause 4.4.2 for 7 years and provide access to the record at reasonable times to the relevant **customer**.
- 4.4.5. For the purposes of this clause 4.4, all references in the **Metrology Procedure** to the **responsible person** are references to the person responsible for the **metering installation**.



4.5. Calculation of Metering Data for Unmetered Connection Points

- 4.5.1. Where it has been determined that a **connection point** does not require a **meter** in accordance with clause 2.3, the person responsible for the **metering installation** must ensure that **metering data** for the unmetered **connection point** is calculated in accordance with the **distributor's** procedure which should be based on a methodology in the **Metrology Procedure**. If the unmetered **connection point** does not have a predictable load pattern, then the person responsible for that **metering data** must have regard to the methodology in the **Metrology Procedure** when calculating the **metering data** at such **connection points**
- 4.5.2. The person responsible for the **metering installation** must ensure that the **metering data** for an unmetered **connection point**, which is calculated in accordance with 4.5.1, is validated in accordance with the **distributor's** procedure which should be based on a methodology in the **Metrology Procedure**.
- 4.5.3. The person responsible for an unmetered **connection point** must ensure that the **metering data** is substituted in accordance with the **distributor's** procedure, which should be based on a methodology in the **Metrology Procedure**, where the **metering data** calculated for an unmetered **connection point** fails the validation test conducted in accordance with paragraph 4.5.2.

4.6. Access to Metering Installation

- 4.6.1. The person responsible for the **metering installation** must give a **customer** access to data stored in a **metering installation** used to measure and record the amount of electricity supplied to its **connection point**, either by inspecting the **metering installation** or, where available, by electronic access to the **metering installation**.
- 4.6.2. The person responsible for the **metering installation** must, on request from a **customer** or a **customer's retailer**, provide the **customer** with access to the **energy data** and the **metering data** in respect of the **metering installation** which measures and records the amount of electricity supplied to the **connection point** of the **customer**.

4.7. Storage of Metering Data

- 4.7.1. The person responsible for the **metering installation** must store **metering data** in respect of each **metering installation** and **metering data** in respect of each unmetered **connection point**, for a period of 7 years, in the form in which it was collected under clause 4.3 or calculated under clause 4.5.

4.8. Access to Metering Data

- 4.8.1. The person responsible for the **metering installation** must ensure that access is provided to **metering data** (whether actual or substituted under clause 4.4 at the frequency agreed under clause 4.3.4(a)).
- 4.8.2. The format of **metering data** provided under clause 4.8.1 must be in accordance with Schedule 4 reference 1.8 of Part A of the **Metrology Procedure**,
- 4.8.3. For the purposes of this clause 4.8, all references in the **Metrology Procedure** to:
- (a) a Financially Responsible Market Participant are references to a **retailer**;
 - (b) “each **metering installation** for which the **financially responsible Market Participant** has registered with **AEMO**” in **Metrology Procedure** clause 3.8.1 are references to each **metering installation** associated with a **customer’s supply address**; and
 - (c) type 7 **metering installations** are references to unmetered **connection points**.

5. METERING DATA SERVICES FOR ALL CONNECTION POINTS

5.1. Application of Chapter 5

- 5.1.1. This chapter applies to **metering installations** at all **connection points**.
- 5.1.2. In this chapter the person responsible for the **metering installation** may be the **responsible person** or the person responsible for the **metering installation** determined in accordance with clause 2.2.1.
- 5.1.3. The obligations in this chapter in regard to **metering installations** at **connection points** for **responsible persons** are in addition to the obligations for **responsible persons** under the **National Electricity Rules**.

5.2. Collection of Metering Data

- 5.2.1. If a substitution is made to **metering data**, the person responsible for the **metering installation** or the **retailer** must ensure that a bill issued to the relevant **customer** informs that **customer** that a substitution has been made.

5.3. Access to data

- 5.3.1. Where a **sample meter** has been installed at a **connection point** by the **distributor**, the person responsible for the **metering installation** must give a **customer** access to the data stored in that **sample meter** as **accumulated energy data** and not as **interval energy data**.
- 5.3.2. The person responsible for the **metering installation** must, on written request from a **customer**, provide facilities to enable the **customer** to access data stored in a **metering installation** by remote electronic means.
- 5.3.3. Where the person responsible for the **metering installation** has provided facilities to enable the **customer** to access data stored in a **metering installation** by remote electronic means, if remote electronic access to the **metering installation** is unavailable for a period of 5 consecutive **business days** due to the actions within the control of the person responsible for the **metering installation**, the person responsible for the **metering installation** must, if requested by the **customer**, obtain data locally from the **metering installation** and provide that data to the **customer** at the person responsible for the **metering installation's** cost.
- 5.3.4. For **connection points** at which the **annual electricity consumption level** is less than 160MWh per annum, the **energy data** or **metering data** provided to the **customer** or the **customer's retailer** must be provided within the timeframes

to enable a **retailer** to discharge its minimum obligations under the **National Energy Retail Law**.

5.4. Confidentiality

- 5.4.1. The **distributor**, a person responsible for the **metering installation** and **retailers** must keep **metering data** confidential and use reasonable endeavours to protect and preserve the confidential nature of the **metering data** and must comply with any **applicable regulatory instrument**.
- 5.4.2. The **distributor**, the person responsible for the **metering installation** and **retailers**:
- (a) must not disclose a **customer's metering data** to any person except as permitted by this industry code, the **National Electricity Rules** or the **Metrology Procedure**;
 - (b) must only use or reproduce a **customer's metering data** for the purpose for which it was collected under this industry code or another purpose contemplated by any other code, the **National Electricity Rules** or the **Metrology Procedure**;
 - (c) must not permit unauthorised persons to have access to a **customer's metering data**;
 - (d) must not disclose a **customer's metering data** to any person without the **explicit informed consent** of the **customer**; and
 - (e) must ensure that the **metering data** and other information obtained from a **customer** is treated in accordance with the **explicit informed consent** of the **customer** and in accordance with any **applicable regulatory instrument**.
- 5.4.3. This clause 5.4 does not prevent:
- (a) the disclosure, use or reproduction of **metering data** if the **metering data** is at the time generally and publicly available otherwise than as a result of breach of confidence by the **distributor**, a person responsible for the **metering installation** or a **retailer** or its **disclosees**;
 - (b) the disclosure of **metering data** by the **distributor**, a person responsible for the **metering installation** or a **retailer** or its **disclosees** to:
 - (i) its employees or the employees of its related bodies corporate subject to any **applicable regulatory instrument**;

- (ii) or its legal or other professional advisor, auditor or other consultant, requiring the **metering data** for the purposes of this industry code or any other code or for the purpose of advising the **distributor**, the person responsible for the **metering installation** or the **retailer** or **disclosee** in relation to those purposes;
- (c) the disclosure, use or reproduction of **metering data** with the **explicit informed consent** of the relevant **customer**;
- (d) the disclosure, use or reproduction of **metering data** to the extent required by law or by lawful requirement of:
 - (i) any government or governmental body, authority or agency having jurisdiction over the **distributor**, a person responsible for the **metering installation** or a **retailer** or its **related bodies corporate**;
 - (ii) any stock exchange having jurisdiction over the **distributor**, a person responsible for the **metering installation** or a **retailer** or its **related bodies corporate**; or
 - (iii) the **Commission**;
- (e) the disclosure, use or reproduction of **metering data** required in connection with legal proceedings, arbitration, expert determination or other dispute resolution mechanism under this industry code or any other code, the **National Electricity Rules** or the **Metrology Procedure**;
- (f) the disclosure, use or reproduction of **metering data** which is trivial in nature;
- (g) the disclosure use or reproduction of **metering data** required to protect the safety of personnel or equipment; or
- (h) the disclosure use or reproduction of **metering data** by or on behalf of the **distributor**, the person responsible for the **metering installation** or a **retailer** to the extent it is reasonably required in connection with the **distributor's**, the person responsible for the **metering installation's** or the **retailer's** financing arrangements, investment in the **distributor**, the person responsible for the **metering installation** or the **retailer** or disposal of the **distributor**, the person responsible for the **metering installation** or the **retailer**.

5.4.4. In the case of a disclosure under clause 5.4.3(b) and clause 5.4.3(h), the **distributor**, a person responsible for the **metering installation** or the **retailer** making the disclosure must inform the relevant **disclosee** of the confidentiality

of the **metering data** and use reasonable endeavours to ensure that the **disclosee** keeps the **metering data** confidential.



6. SCHEDULE: DEFINITIONS AND INTERPRETATION

6.1. Definitions

In this industry code:

“accumulation meter” means equipment capable of measuring and recording electricity supplied to a **connection point** in periods in excess of a **trading interval**;

“accumulated energy data” means the data that results from the measurement of the flow of electricity in a power conductor where the data represents a period in excess of a **trading interval**. The measurement is carried out at a **connection point**;

“actual meter reading” means the physical collection of **energy data** by way of a **scheduled meter reading** or a **special meter reading** and, in the case of an **interval meter**, includes the collection of **energy data** by remote means;

“annual electricity consumption level” has the meaning given to that term in the **Act**;

“applicable regulatory instrument” means any Act or regulatory instrument made under an Act, or regulatory instrument issued by the **Commission**, which applies to a **distributor**, a **retailer** or a **generator**;

“Act” means the *Electricity Act 1996*;

“AEMO”) means the Australian Energy Market Operator A.C.N. 072 010 327, the company which operates and administers the wholesale energy market in accordance with the **National Electricity Rules**;

“Australian Standard” or **“AS”** means a standard published by the Standards Association of Australia;

“business day” has the meaning given to that term in the **National Energy Retail Law**;

“child” means a person other than a **parent** who has or seeks supply from an **embedded network**, and **children** has a corresponding meaning;

“Commission” means the Essential Services Commission established under the *Essential Services Commission Act 2002*;

“connection point” means:

- (a) the same meaning given to that term in the **National Electricity Rules**;
- (b) the agreed point of supply established between an **off grid distribution system** and a **customer**; and
- (c) until a date notified by the **Commission**, for the purposes of this industry code, where a distribution network is operated pursuant to an exemption from holding a licence, the connection point is the agreed point of supply between the **embedded network** operator and a Registered Participant, Non-Registered Customer or **customer**;

“current transformer” has the meaning given to that term in **AS 1675**;

“customer” has the meaning given to that term in the **Act**;

“data logger” means a **metering installation** database or a device that collects electronic signals from a measurement element, and packages it in to 30 minute intervals (or sub-multiples) this device may contain data storage capability, be a separate item of equipment and/or be combined with the energy measuring components within one physical cycle;

“defective” means:

- (a) in relation to a new **meter**, that it is not meeting the **minimum standards**; and
- (b) in relation to an existing **meter**, that it is not meeting the **minimum standards** of accuracy that it was designed to meet;

“disclose” means a person to whom a **distributor** or a **retailer** has disclosed or wishes to disclose **metering data**;

“distributor” means a person holding a licence under the **Act** to operate a distribution network;

“distribution licence” means the licence issued to a **distributor** under the **Act** to operate a distribution network;

“distribution system” means a system of electric lines and equipment used in connection with the distribution of electricity, and includes connection assets;

“embedded network” means a **distribution system** to which an end-use **customer** is connected and where the energy supplied to that end-use **customer** (the **child**) has also been registered by a **meter** used to record the consumption of another end-use **customer** (the **parent**);

“energy data” means **interval energy data** or **accumulated energy data**;

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

“estimated read” means an estimate used in lieu of a **meter** reading;

“explicit informed consent” has the meaning given to that term in the **National Energy Retail Law**;

“generator” means a person holding a licence under the **Act** to generate electricity;

“guideline” means a guideline published by the **Commission**;

“interval energy data” means the data that results from the measurement of the flow of electricity in a power conductor where the data is prepared by a **data logger** into intervals which correspond to a **trading interval** or a sub-multiple of a **trading interval**;

“interval meter” means a **meter** that records **interval energy data**;

“load” means a **connection point** or defined set of **connection** points at which electrical power is delivered to a person or to another network or the amount of electrical power delivered at a defined instant at a **connection point**, or aggregated over a defined set of **connection points**;

“market load” has the meaning given to that term in the **National Electricity Rules**.



“meter” means equipment to measure, record and, in certain cases, read records of the amount of electricity (active energy and/or reactive energy) supplied through a **customer’s connection point**;

“metering data” means the data obtained from a **metering installation**, the processed data or substituted data;

“metering data services” means the collection and collation of **energy data** from the **meter** or **meter** and associated **data logger**, the processing of the **energy data** in the **metering installation** database, storage of the **energy data** in the **metering installation** database and the provision of access to the data for those parties that have rights of access to the data;

“metering installation” means a **meter** together with **current transformers** and **voltage transformers**, wiring and any computing or communications equipment designed to facilitate electronic access;

“metering installation type 1” means a **metering installation** installed at a **connection point** through which the **annual electricity consumption level** is greater than 1,000 GWh that meets the requirements specified for type 1 **metering installations** in the **National Electricity Rules**;

“metering installation type 2” means a **metering installation** installed at a **connection point** through which the **annual electricity consumption level** is equal to or greater than 100 GWh and less than or equal to 1,000 GWh that meets the requirements specified for type 2 **Metering installations** in the **National Electricity Rules**;

“metering installation type 3” means a **metering installation** installed at a **connection point** through which the **annual electricity consumption level** is equal to or greater than 750MWh and less than or equal to 100 GWh that meets the requirements specified for type 3 **Metering installations** in the **National Electricity Rules**;

“metering installation type 4” means a **metering installation** installed at a **connection point** through which the **annual electricity consumption level** is less than 750 MWh that meets the requirements specified for type 4 **Metering installations** in the **National Electricity Rules**;

“metering installation type 5” means a **metering installation** installed at a **connection point** through which the **annual electricity consumption level** is less than 160 MWh that meets the requirements specified in for type 5 **Metering installations** in the **National Electricity Rules**;

“metering installation type 6” means a **metering installation** installed at a **connection point** through which the **annual electricity consumption level** is less than 160 MWh that meets the requirements specified for type 6 **Metering installations** in the **National Electricity Rules**;

“metering installation type 7” means a **metering installation** installed at a **connection point** that meets the requirements specified for type 7 **Metering installations** in the **National Electricity Rules**;

“metering provider” has the meaning given to that term in the **National Electricity Rules**;

“meter provision services” means the supply, installation and maintenance of **metering installations**;

“metering services” means **meter provision services** and **metering data services**;

“Metrology Procedure” means the **Metrology Procedure**, Parts A and B, published by **AEMO** under the **National Electricity Rules**, as amended from time to time;

“minimum standards” means, in respect of relevant **meters**, the **minimum standards** referred to in clause 2.7 in this industry code;

“MSATS” means **AEMO’s** Market Settlement and Transfer Solution system;

“National Energy Retail Law” has the meaning given to that term in the *National Energy Retail Law (South Australia) Act 2011* as in force from time to time;

“National Energy Retail Regulations” means the Regulations made under Part 11 of the **National Energy Retail Law**;

“National Energy Retail Rules” means the Rules made under Part 10 of the **National Energy Retail Law**;

“National Electricity Rules” has the meaning given to that term in the *National Electricity Law* referred to in the *National Electricity (South Australia) Act 1996*;

“National Metering Identifier” or **“NMI”** means a **National Metering Identifier** as described in clause 7.3.1(d) of the **National Electricity Rules**;

“non-market generator” means a **generator** who has classified a generating unit as a “non-market generating” unit as defined under the **National Electricity Rules**;

“off grid distribution system” means either a **distribution system** that is not connected to the interconnected national electricity system as contemplated in the National Electricity Law or if the **distribution system** is connected to the interconnected national electricity system then it is exempt from the requirement of being a registered participant under clause 11(2)(b) of the National Electricity Law set out in the Schedule to the National Electricity (South Australia) Act 1996.

“parent” means a person in an **embedded network** where the energy that passes through the **parent’s meter** is apportioned to more than one end-use customer (**child**), and that apportionment is made through the use of one or more **children’s metering installations** and the **parent’s metering installations**;

“physical inventory” means a physical count of devices;

“rated current” has the meaning given to that term in **AS 1284.9**;

“related body corporate” means in relation to a body corporate, a body corporate that is related to the first mentioned body by virtue of the *Corporations Act 2000 (Cth)*;

“Responsible Person” has the meaning given to that term in the **National Electricity Rules**;

“retailer” means a person holding a licence under the *Act* or a retailer authorisation under the **National Energy Retail Law** (as the case may be) for the sale of electricity;

“sample meter” means an **interval meter** that has been installed at a **connection point** for the purpose of determining a controlled load profile under the **Metrology Procedure**;

“scheduled meter reading” means an **actual meter reading** on a cycle that equates to the end-use **customer’s** billing cycle, usually monthly or quarterly;



“special meter reading” means an **actual meter reading** performed outside of the usual reading cycle for the **meter**;

“supply address” means:

- a) the address for which a **customer** purchases electricity from a **retailer** where there is only one **connection point** at that address; or
- b) where there is more than one **connection point** at the address, each **connection point** through which the **customer** purchases electricity from the same **retailer**;

“trading interval” means a thirty minute period ending on the hour (EST) or on the half hour, and, where identified by a time means the thirty minute period ending at that time;

“voltage transformer” has the meaning given to that term in AS 1243;

6.2. Interpretation

6.2.1. In this industry code, unless the context otherwise requires:

- (a) headings and footnotes are for convenience or information only and do not affect the interpretation of this industry code or of any term or condition set out in this industry code;
- (b) words importing the singular include the plural and vice versa;
- (c) an expression importing a natural person includes any company, partnership, trust, joint venture, association, corporation or other body corporate and any governmental agency and vice versa;
- (d) a reference to a clause or appendix is to a clause or appendix of this industry code;
- (e) a reference to any statute includes all statutes varying, consolidating, re-enacting, extending or replacing them and a reference to a statute includes all regulations, proclamations, ordinances, by-laws and determinations issued under that statute;
- (f) a reference to a document or a provision of a document includes an amendment or supplement to, or replacement of or novation of, that document or that provision of that document;
- (g) a reference to a person includes that person’s executors, administrators, successors, substitutes (including, without limitation, persons taking by novation) and permitted assigns;
- (h) other parts of speech and grammatical forms of a word or phrase defined in this industry code have a corresponding meaning;
- (i) a period of time:
 - (i) which dates from a given day or the day of an act or event is to be calculated exclusive of that day; and

- (ii) which commences on a given day or the day or an act or event is to be calculated inclusive of that day.
- (j) a reference to:
- (i) time in the National Electricity Market is a reference to the time at the 150th meridian of longitude east of Greenwich in England, or Co-ordinated Universal Time, as required by the National Measurement Act (1960);
 - (ii) time, when not referring to the National Electricity Market, is a reference to Standard Time within the meaning of the *Daylight Saving Act 1971 (SA)* and not Summer Time within the meaning of that Act;
 - (iii) a day is a reference to a period commencing immediately after midnight and ending the following midnight; and
 - (iv) a month is a reference to a calendar month.
- (k) an event which is required under any term or condition set out in this industry code to occur on or by a stipulated day which is not a **business day**, may occur on or by the next **business day**.



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