

Appendix E

Reference Services

Amended proposed access arrangement

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Appendix E - Reference Services

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Appendix E - Reference Services

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1. Introduction

This document describes Western Power's *reference services*.

1.1 Definitions

In this Appendix (including the Annexures), where a word or phrase is *italicised* it has the definition given to the word or phrase below, in the *access arrangement* or in section 1.3 of the *Code*, unless the context otherwise requires.

"AA4 effective date" means the date in section 1.3.1 of the *access arrangement*.

"accumulated energy data" has the meaning given to it in the *Metering Code*.

"accumulation meter" has the meaning given to it in the *Metering Code*.

"accumulation meter (bi-directional)" means an *accumulation meter* capable of measuring the transfer of electricity into and out of the *Western Power Network*.

"accumulation meter (uni-directional)" means an *accumulation meter* capable of measuring the transfer of electricity into, or out of, the *Western Power Network* but not both.

"additional reference service (metering)" means a *reference service (metering)* that is additional to *standard metering services*.

"bi-directional point" has the meaning given to it in the *applications and queuing policy*.

"bi-directional service" means a *covered service* provided by Western Power at a *bi-directional point* under which the *user* may transfer electricity into and out of the *Western Power Network* at the *bi-directional point*.

"communications network" means a metrology telecommunications link provided by way of telecommunication network and other devices and processes supported by Western Power with the capability activated to communicate between the *meter* and Western Power for the upload of *energy data* from a remote locality.

"connection service" has the meaning given to it in the *Code* and also includes a right to connect *facilities and equipment* at a *bi-directional point*.

"electricity transfer application" has the meaning given to it in the *applications and queuing policy*.

"energy data" has the meaning given to it in the *Metering Code*.

"interval energy data" has the meaning given to it in the *Metering Code*.

"interval meter" has the meaning given to it in the *Metering Code*.

"interval meter (bi-directional)" means an *interval meter* capable of measuring the transfer of electricity into and out of the *Western Power Network*.

"interval meter (uni-directional)" means an *interval meter* capable of measuring the transfer of electricity into, or out of, the *Western Power Network* but not both.

"intra day period" means a period of no greater than twenty four consecutive hours ending at midnight (WST).

“manual read” means the derivation of *energy data* from a *meter* other than via a *communications network* by Western Power or by the customer as a customer meter read and includes *energy data* estimation or substitution in accordance with the *metering instruments*.

“market operator” means the entity conferred the functions in respect of the ‘Wholesale Electricity Market’ under the Wholesale Electricity Market Rules which, as at the *AA4 effective date*, is the Australian Energy Market Operator Limited.

“meter” has the meaning given to it in the *Metering Code*.

“Metering Code” means the *Electricity Industry (Metering) Code 2012*.

“metering installation” has the meaning given to it in the *Metering Code*.

“metering instruments” means the *Metering Code* and the documents made under Part 6 of the *Metering Code*.

“metering point” means for a *connection point* without a *meter*, the *connection point* and, for a *connection point* with a *meter*, the point at which that *meter* measures electricity production or consumption for the *connection point*.

“metering service” has the meaning given to it in the *Metering Code*.

“minimum meter” means:

- a. if throughput at the *connection point* is less than 50MWh per annum, an *accumulation meter*; or
- b. if throughput at the *connection point* is equal to or greater than 50MWh per annum an *interval meter*.

“MSLA” means the current model service level agreement approved by the *Authority* under the *Metering Code* (which as at the *AA4 effective date* is the version dated March 2006).

“non-residential premises” means premises that are not *residential premises*.

“permissible reference service (metering)” means a *metering service* that is available for a *user* to select as a component of the *reference service* (*exit service*, *entry service* or *bi-directional service*) on and after 1 July 2020 from the options set out in clause E.1.1 of Annexure 2.

“reference service (metering)” means the *metering service* selected from the *permissible reference service* (*metering*) options by the *user* as a component of the *reference service* (*exit service*, *entry service* or *bi-directional service*) on and after 1 July 2020.

“residential premises” means:

- a. premises where the electricity supply is solely for residential purposes;
- b. where the electricity supply is to premises used for both residential and other purposes, that part of the premises used solely for residential purposes if that part is independently supplied and separately metered; or
- c. premises used for both residential and other purposes where the circuit wiring is not separate provided that Western Power determines, as a *reasonable and prudent person*, that the consumption at the premises is, or will be, less than 100MWh per annum.

“service level agreement” has the meaning given to it in the *Metering Code*.

“small use customer” has the meaning given to ‘customer’ in the *Code of Conduct For The Supply Of Electricity To Small Use Customers 2018*.

“standard metering service” has the meaning given to it in the *MSLA* and is the *metering service* relevant to a *reference service* on and before 30 June 2020.

“standing data” has the meaning given to it in the *Metering Code*.

“system management” means the entity conferred the functions in respect of ‘System Management’ under the Wholesale Electricity Market Rules which, as at *AA4 effective date*, is the Australian Energy Market Operator Limited.

“transformer” has the meaning given to it in the *Metering Code*.

“voluntary/charitable organisation” means a consumer who is, or is to be, a *small use customer* and:

- a. who meets all of the following conditions:
 - (i) is a direct *small use customer* of the *user*;
 - (ii) is a voluntary, non-profit making organisation;
 - (iii) is endorsed as exempt from income tax under the *Income Tax Assessment Act 1997* (Commonwealth) Subdivision 50-B;
 - (iv) provides a public service, which is available to any member of the public without discrimination;
 - (v) is not a Commonwealth, State or local government department, instrumentality or agency; and
 - (vi) does not receive the major part of its funding from any organisation mentioned in subparagraph (v); or
- b. is a charitable or benevolent organisation providing residential accommodation other than for commercial gain.

“WA Electrical Requirements” has the meaning given to it in the *Electricity (Licensing) Regulations 1991*.

1.2 Interpretation

Unless the contrary intention is apparent:

- 1.1 a rule of interpretation in the *Code*; and
- 1.2 the *Interpretation Act 1984*,

apply to the interpretation of this Appendix (including the Annexures).

For the avoidance of doubt, a reference to each of the instruments referred to in the definitions and to an applicable price list includes any amendment or replacement of it that is for the time being in force, and includes all instruments made under it from time to time.

1.3 Metering Services

In accordance with section 5.28 of the *Code* and section 9.3 of the *access arrangement* (of which this Appendix forms a part), *metering services* will be provided in accordance with the *Metering Code* and the *MSLA*.

For *exit services* A1 to A17, *entry services* B1 and B2 and *bi-directional services* C1 to C14, the service includes a *reference service (metering)*.

Reference services (metering) are described in clause E.1.1 of Annexure 1.

Details of the *reference services (metering)* that are available to be selected by the *user* are set out in clause E.1.2 of Annexure 1.

Annexure 1 includes a designation of a *permissible reference service (metering)* for each *reference service* existing prior to the AA4 effective date as “transition”. These “transition” *reference services (metering)* are denoted with an asterisk (*) in clause E.1.2 of Annexure 1. Western Power will regard the designated “transition” *reference service (metering)* as having been selected by the *user* as a component of the corresponding *reference service (exit service, entry service or bi-directional service)* in Annexure 1 and of the service it receives under its *access contract* from the AA4 effective date.¹

The “transition” *reference service (metering)* services identified in clause E.1.2 of Annexure 1 are the *standard metering service* for the relevant *exit service, entry service or bi-directional service*.

There is an applicable *reference service (metering) reference tariff* payable by *users* as a component of the applicable *reference tariff* for each *reference service (exit service, entry service or bi-directional service)*.

The *reference service (metering) reference tariff* recovers the cost of the *standard metering service* for the relevant *exit service, entry service or bi-directional service*.

The *reference tariffs* (including the *reference service (metering) reference tariffs* for *standard metering services*) are published in the applicable *Price List* in Appendix F of the *access arrangement*. A charge is payable by *users* to Western Power for services received under *access contracts* based on applying these *reference tariffs*.

Users who select an *additional reference service (metering)* for the relevant *exit service, entry service or bi-directional service*, may be required to pay an additional charge for the capital and non-capital costs that are incremental to the related *standard metering service*.

There is no charge to *users* in addition to the *reference service (metering) reference tariff* for the following *metering services* for so long as that is consistent with the *MSLA*:

- a. upgrade of the *meter* to align with the requirements of the Metering Code - as a result of throughput at the *connection point* changing;
{Note: if the *user* elects to upgrade the *meter* this is a “meter change” as defined in the *MSLA* and if the *user* elects to reconfigure the *meter* this is a “meter reconfigure” as defined in the *MSLA*. Charges in addition to the *reference service (metering) reference tariff* are payable for a “meter change” and a “meter reconfiguration” in accordance with the Metering Code and *MSLA*.}
- b. *customer meter* reading (including a card read *meter* reading);
- c. historical *interval energy data* from *interval meters* for a period of up to 12 months in accordance with the requirements of clause A4.2 of the *Electricity Industry (Customer Transfer) Code 2016*; and
- d. the provision of *standing data* in accordance with the *Metering Code*.

¹ Unless the *user* has entered into an agreement with Western Power prior to the AA4 effective date to obtain extended metering services as defined under the *MSLA*. In such cases, the *user* will be allocated the nearest equivalent *reference service (metering)*.

The non-price terms and conditions under which *reference services (metering)* are provided are set out in the *MSLA*.

1.4 Eligibility criteria

For each *reference service*, eligibility criteria are stated. These are the conditions which must be satisfied in order to receive and continue to receive the *reference service*. They are not, and should not be read as, conditions a *user* is entitled to from Western Power.

1.5 Provision of reference services

The *access arrangement* and this Appendix E have been approved for the purposes of the *Code* and do not represent an obligation to provide *reference services* without a related contract between Western Power and a *user*.

1.6 Transitional

The reference number for a *reference service* is the number and letter used to describe that *reference service* (being A1 to A17, B1 to B3, C1 to C15, D1 to D9 and M1 to M16).

Reference services (A1 to A11, B1 to B2 and C1 to C4) described in parts 2, 3 and 4 of this Appendix E – Reference Services are materially the same (as that term is used in clause 7.1(c) of *Standard Access Contract* (termed the Electricity Transfer Access Contract)) as the *reference services* (A1 to A11, B1 to B2 and C1 to C4) described in parts 2, 3 and 4 of Appendix E of the previous *access arrangement* which has the same reference number as that AA4 *reference service*.

2. Reference Services (Exit Services)

Western Power offers 17 *exit services* as *reference services*.

Reference Service Name:	Reference Service A1 – Anytime Energy (Residential) Exit Service
Reference Service Description:	An <i>exit service</i> combined with a <i>connection service</i> and a <i>reference service (metering)</i> at an <i>exit point</i> on the low voltage (415 volts or less) <i>distribution system</i> .
Eligibility Criteria:	<p>Users are eligible to use this <i>service</i> if:</p> <ol style="list-style-type: none"> 1. The <i>exit point</i> is located at <i>residential premises</i> or premises occupied by a <i>voluntary/charitable organisation</i>; and 2. The <i>consumer’s facilities and equipment</i> comply with the <i>technical rules</i>, the <i>WA Electrical Requirements</i> and AS 3000; and 3. Each of the following does not apply under an agreement with Western Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the <i>charge</i> is different to the Applicable Reference Tariff for this <i>service</i>; or b. The <i>user</i> is to receive delivered electricity at a <i>service standard</i> different to the Applicable Service Standard Benchmarks for this <i>service</i>.
Applicable Reference Tariff:	“RT1” in the applicable <i>Price List</i> published in Appendix F of the <i>access arrangement</i> .
Applicable Standard Access Contract:	“Electricity Transfer Access Contract” published in Appendix A of the <i>access arrangement</i> .
Applicable Service Standard Benchmarks:	As set out in section 4.2 of the <i>access arrangement</i> .

Reference Service Name:	Reference Service A2 – Anytime Energy (Business) Exit Service
Reference Service Description:	An <i>exit service</i> combined with a <i>connection service</i> and a <i>reference service (metering)</i> at an <i>exit point</i> on the low voltage (415 volts or less) <i>distribution system</i> .
Eligibility Criteria:	<p><i>Users</i> are eligible to use this <i>service</i> if:</p> <ol style="list-style-type: none"> 1. The <i>exit point</i> is located at <i>non-residential premises</i>; and 2. The maximum demand at the <i>exit point</i> is: <ol style="list-style-type: none"> a. less than 1,500 kVA based on historic metering data; or b. Western Power determines, as a <i>reasonable and prudent person</i>, that the <i>user's</i> forecast maximum demand will be less than 1,500 kVA; and 3. The <i>meter</i> is configured to measure the transfer of electricity out of the <i>Western Power Network</i>; and 4. The <i>consumer's facilities and equipment</i> comply with the <i>technical rules</i>, the <i>WA Electrical Requirements</i> and AS 3000; and 5. Each of the following does not apply under an agreement with Western Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the <i>charge</i> is different to the Applicable Reference Tariff for this <i>service</i>; or b. The <i>user</i> is to receive delivered electricity at a <i>service standard</i> different to the Applicable Service Standard Benchmarks for this <i>service</i>.
Applicable Reference Tariff:	"RT2" in the applicable <i>Price List</i> published in Appendix F of the <i>access arrangement</i> .
Applicable Standard Access Contract:	"Electricity Transfer Access Contract" published in Appendix A of the <i>access arrangement</i> .
Applicable Service Standard Benchmarks:	As set out in section 4.2 of the <i>access arrangement</i> .

Reference Service Name:	Reference Service A3 – Time of Use Energy (Residential) Exit Service
Reference Service Description:	An <i>exit service</i> combined with a <i>connection service</i> and a <i>reference service (metering)</i> at an <i>exit point</i> on the low voltage (415 volts or less) <i>distribution system</i> .
Eligibility Criteria:	<p><i>Users</i> are eligible to use this <i>service</i> if:</p> <ol style="list-style-type: none"> 1. The <i>exit point</i> is located at <i>residential premises</i> or premises occupied by a <i>voluntary/charitable organisation</i>; and 2. The <i>meter</i> is configured to measure the transfer of electricity out of the <i>Western Power Network</i>, and if it is an <i>accumulation meter</i>, it is configured for time bands set out in the <i>price list</i> for RT3; and 3. This A3 – Time of Use Energy (Residential) Exit Service: <ol style="list-style-type: none"> a. was provided at the <i>connection point</i> as at the <i>AA4 effective date</i>; and b. has continued to be provided at the <i>connection point</i> from the <i>AA4 effective date</i>; and 4. The <i>consumer's facilities and equipment</i> comply with the <i>technical rules</i>, the <i>WA Electrical Requirements</i> and AS 3000; and 5. Each of the following does not apply under an agreement with Western Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the <i>charge</i> is different to the Applicable Reference Tariff for this <i>service</i>; or b. The <i>user</i> is to receive delivered electricity at a <i>service standard</i> different to the Applicable Service Standard Benchmarks for this <i>service</i>.
Applicable Reference Tariff:	"RT3" in the applicable <i>Price List</i> published in Appendix F of the <i>access arrangement</i> .
Applicable Standard Access Contract:	"Electricity Transfer Access Contract" published in Appendix A of the <i>access arrangement</i> .
Applicable Service Standard Benchmarks:	As set out in section 4.2 of the <i>access arrangement</i> .

Reference Service Name:	Reference Service A4 – Time of Use Energy (Business) Exit Service
Reference Service Description:	An <i>exit service</i> combined with a <i>connection service</i> and a <i>reference service (metering)</i> at an <i>exit point</i> on the low voltage (415 volts or less) <i>distribution system</i> .
Eligibility Criteria:	<p><i>Users</i> are eligible to use this <i>service</i> if:</p> <ol style="list-style-type: none"> 1. The <i>exit point</i> is located at <i>non-residential premises</i>; and 2. The maximum demand at the <i>exit point</i> is: <ol style="list-style-type: none"> a. less than 1,500 kVA based on historic metering data; or b. Western Power determines, as a reasonable and prudent person, that the <i>user's</i> forecast maximum demand will be less than 1,500 kVA; and 3. The <i>meter</i> is configured to measure the transfer of electricity out of the <i>Western Power Network</i> , and if it is an <i>accumulation meter</i>, it is configured for the time bands set out in the <i>price list</i> for RT4; and 4. This A4 – Time of Use Energy (Business) Exit Service: <ol style="list-style-type: none"> a. was provided at the <i>connection point</i> as at the <i>AA4 effective date</i>; and b. has continued to be provided at the <i>connection point</i> from the <i>AA4 effective date</i>; and 5. The <i>consumer's facilities and equipment</i> comply with the <i>technical rules</i>, the <i>WA Electrical Requirements</i> and AS 3000; and 6. Each of the following does not apply under an agreement with Western Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the <i>charge</i> is different to the Applicable Reference Tariff for this <i>service</i>; or b. The <i>user</i> is to receive delivered electricity at a <i>service standard</i> different to the Applicable Service Standard Benchmarks for this <i>service</i>.
Applicable Reference Tariff:	"RT4" in the applicable <i>Price List</i> published in Appendix F of the <i>access arrangement</i> .
Applicable Standard Access Contract:	"Electricity Transfer Access Contract" published in Appendix A of the <i>access arrangement</i> .
Applicable Service Standard Benchmarks:	As set out in section 4.2 of the <i>access arrangement</i> .

Reference Service Name:	Reference Service A5 – High Voltage Metered Demand Exit Service
Reference Service Description:	An <i>exit service</i> combined with a <i>connection service</i> and a <i>reference service (metering)</i> at an <i>exit point</i> on the high voltage (6.6 kV or higher) <i>distribution system</i> .
Eligibility Criteria:	<p><i>Users</i> are eligible to use this <i>service</i> if:</p> <ol style="list-style-type: none"> 1. The maximum demand at the <i>exit point</i> is: <ol style="list-style-type: none"> a. less than 1,500 kVA based on historic metering data; or b. Western Power determines, as a <i>reasonable and prudent person</i>, that the <i>user's</i> forecast maximum demand will be less than 1,500 kVA; and 2. The <i>meter</i> is configured to measure the transfer of electricity out of the <i>Western Power Network</i>; and 3. The <i>consumer's facilities and equipment</i> comply with the <i>technical rules</i>, the <i>WA Electrical Requirements</i> and AS 3000; and 4. Each of the following does not apply under an agreement with Western Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the <i>charge</i> is different to the Applicable Reference Tariff for this <i>service</i>; or b. The <i>user</i> is to receive delivered electricity at a <i>service standard</i> different to the Applicable Service Standard Benchmarks for this <i>service</i>.
Applicable Reference Tariff:	"RT5" in the <i>Price List</i> published in Appendix F of the <i>access arrangement</i> .
Applicable Standard Access Contract:	"Electricity Transfer Access Contract" published in Appendix A of the <i>access arrangement</i> .
Applicable Service Standard Benchmarks:	As set out in section 4.2 of the <i>access arrangement</i> .

Reference Service Name:	Reference Service A6 – Low Voltage Metered Demand Exit Service
Reference Service Description:	An <i>exit service</i> combined with a <i>connection service</i> and a <i>reference service (metering)</i> at an <i>exit point</i> on the low voltage (415 volts or less) <i>distribution system</i> .
Eligibility Criteria:	<p><i>Users</i> are eligible to use this <i>service</i> if:</p> <ol style="list-style-type: none"> 1. The maximum demand at the <i>exit point</i> is: <ol style="list-style-type: none"> a. less than 1,500 kVA based on historic metering data; or b. Western Power determines, as a reasonable and prudent person, that the <i>user's</i> forecast maximum demand will be less than 1,500 kVA; and 2. The <i>meter</i> is configured to measure the transfer of electricity out of the <i>Western Power Network</i>; and 3. The <i>consumer's facilities and equipment</i> comply with the <i>technical rules</i>, the <i>WA Electrical Requirements</i> and AS 3000; and 4. Each of the following does not apply under an agreement with Western Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the <i>charge</i> is different to the Applicable Reference Tariff for this <i>service</i>; or b. The <i>user</i> is to receive delivered electricity at a <i>service standard</i> different to the Applicable Service Standard Benchmarks for this <i>service</i>.
Applicable Reference Tariff:	"RT6" in the applicable <i>Price List</i> published in Appendix F of the <i>access arrangement</i> .
Applicable Standard Access Contract:	"Electricity Transfer Access Contract" published in Appendix A of the <i>access arrangement</i> .
Applicable Service Standard Benchmarks:	As set out in section 4.2 of the <i>access arrangement</i> .

Reference Service Name:	Reference Service A7 – High Voltage Contract Maximum Demand Exit Service
Reference Service Description:	An <i>exit service</i> combined with a <i>connection service</i> and a <i>reference service (metering)</i> at an <i>exit point</i> on the high voltage (6.6 kV or higher) <i>distribution system</i> .
Eligibility Criteria:	<p><i>Users</i> are eligible to use this <i>service</i> if:</p> <ol style="list-style-type: none"> 1. The contracted maximum demand at the <i>exit point</i> is greater than 1,000 kVA; and 2. The <i>meter</i> is configured to measure the transfer of electricity out of the <i>Western Power Network</i>; and 3. The <i>consumer’s facilities and equipment</i> comply with the <i>technical rules</i>, the <i>WA Electrical Requirements</i> and AS 3000; and 4. Each of the following does not apply under an agreement with Western Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the <i>charge</i> is different to the Applicable Reference Tariff for this <i>service</i>; or b. The <i>user</i> is to receive delivered electricity at a <i>service standard</i> different to the Applicable Service Standard Benchmarks for this <i>service</i>.
Applicable Reference Tariff:	“RT7” in the applicable <i>Price List</i> published in Appendix F of the <i>access arrangement</i> .
Applicable Standard Access Contract:	“Electricity Transfer Access Contract” published in Appendix A of the <i>access arrangement</i> .
Applicable Service Standard Benchmarks:	As set out in section 4.2 of the <i>access arrangement</i> .

Reference Service Name:	Reference Service A8 – Low Voltage Contract Maximum Demand Exit Service
Reference Service Description:	An <i>exit service</i> combined with a <i>connection service</i> and a <i>reference service (metering)</i> at an <i>exit point</i> on the low voltage (415 volts or less) <i>distribution system</i> .
Eligibility Criteria:	<p><i>Users</i> are eligible to use this <i>service</i> if:</p> <ol style="list-style-type: none"> 1. The contracted maximum demand at the <i>exit point</i> is greater than 1,000 kVA; and 2. The <i>meter</i> is configured to measure the transfer of electricity out of the <i>Western Power Network</i>; and 3. The <i>consumer’s facilities and equipment</i> comply with the <i>technical rules</i>, the <i>WA Electrical Requirements</i> and AS 3000; and 4. Each of the following does not apply under an agreement with Western Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the <i>charge</i> is different to the Applicable Reference Tariff for this <i>service</i>; or b. The <i>user</i> is to receive delivered electricity at a <i>service standard</i> different to the Applicable Service Standard Benchmarks for this <i>service</i>.
Applicable Reference Tariff:	“RT8” in the applicable <i>Price List</i> published in Appendix F of the <i>access arrangement</i> .
Applicable Standard Access Contract:	“Electricity Transfer Access Contract” published in Appendix A of the <i>access arrangement</i> .
Applicable Service Standard Benchmarks:	As set out in section 4.2 of the <i>access arrangement</i> .

Reference Service Name:	Reference Service A9 – Streetlighting Exit Service
Reference Service Description:	<p>An <i>exit service</i> combined with a <i>connection service</i> and a <i>reference service (metering)</i>, at an <i>exit point</i> on the low voltage (415 volts or less) <i>distribution system</i> for the purpose of public street lighting, plus the service of the provision and maintenance of the streetlight.</p> <p>These street lighting assets are designed for the environment they will operate in with input from the <i>user’s</i> customer of this <i>service</i>. The streetlighting design occurs in accordance with the applicable streetlighting design standards (including AS/NZS 1158 and AS/NZS 60598) and regulatory requirements at the time of installation.</p> <p>Western Power will maintain the street lighting assets to ensure that the street lighting exit service continues to be provided to design levels. Western Power will:</p> <ul style="list-style-type: none"> • Inspect all streetlight poles for structural and electrical integrity consistent with good industry practice and relevant standards; • Replace and reinforce streetlight poles consistent with good industry practice and relevant standards. • Repair streetlight infrastructure including where damage occurs by third parties; • Provide emergency response to incidents involving streetlights; • Replace streetlight lamps, luminaires, control equipment and supply wiring upon failure, damage or at the end of their serviceable life; • Replace and repair underground streetlight supply cables and overhead conductors; • Replace lamps and luminaires where upon investigation the lumen output no longer meets design levels. • Provide a call centre and online facility to receive streetlight fault information from the public and Local Governments. • Maintain an inventory of street light assets to which the service applies including the date of installation of each asset, the type of asset, rated power and the location of the asset. • Respond to questions from a Local Government about in-service inventory within 20 working days.
Eligibility Criteria:	<p><i>Users</i> are eligible to use this <i>service</i> if:</p> <ol style="list-style-type: none"> 1. The streetlight is a Western Power streetlight; and 2. Each of the following does not apply under an agreement with Western Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the <i>charge</i> is different to the Applicable Reference Tariff for this <i>service</i>; or b. The <i>user</i> is to receive delivered electricity at a <i>service standard</i> different to the Applicable Service Standard Benchmarks for this <i>service</i>.
Applicable Reference Tariff:	“RT9” in the applicable <i>Price List</i> published in Appendix F of the <i>access arrangement</i> .
Applicable Standard Access Contract:	“Electricity Transfer Access Contract” published in Appendix A of the <i>access arrangement</i> .
Applicable Service Standard Benchmarks:	As set out in sections 4.2 and 4.4 of the <i>access arrangement</i> .

Reference Service Name:	Reference Service A10 –Unmetered Supplies Exit Service
Reference Service Description:	An <i>exit service</i> combined with a <i>connection service</i> and a <i>reference service (metering)</i> at an <i>exit point</i> on the low voltage (415 volts or less) <i>distribution system</i> .
Eligibility Criteria:	<p><i>Users</i> are eligible to use this <i>service</i> if:</p> <ol style="list-style-type: none"> 1. The <i>exit point</i> is located on public land; and 2. The maximum <i>load</i> at the <i>exit point</i> is not subject to <i>user</i> or <i>consumer</i> controlled variations in duration of usage, except in the case of streetlights with smart control systems ; and 3. Western Power, as a <i>reasonable and prudent person</i>, forecasts the maximum <i>load</i> at the <i>exit point</i> to be less than 1 kW single-phase except for streetlights, traffic lights, rail crossings, and pedestrian lighting where the <i>consumer</i> is a road or local government authority, then the maximum <i>load</i> at the <i>exit point</i> is less than 4.8 kW single phase; and 4. The installation of a <i>meter</i> is not practicable due to the nature or location of the <i>exit point</i> and/or <i>consumer’s facilities and equipment</i>; and 5. The <i>consumer’s facilities and equipment</i> comply with the <i>technical rules</i>, the <i>WA Electrical Requirements</i> and AS 3000; and 6. Each of the following does not apply under an agreement with Western Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the <i>charge</i> is different to the Applicable Reference Tariff for this <i>service</i>; or b. The <i>user</i> is to receive delivered electricity at a <i>service standard</i> different to the Applicable Service Standard Benchmarks for this <i>service</i>.
Applicable Reference Tariff:	“RT10” in the applicable <i>Price List</i> published in Appendix F of the <i>access arrangement</i> .
Applicable Standard Access Contract:	“Electricity Transfer Access Contract” published in Appendix A of the <i>access arrangement</i> .
Applicable Service Standard Benchmarks:	As set out in section 4.2 of the <i>access arrangement</i> .

Reference Service Name:	Reference Service A11 – Transmission Exit Service
Reference Service Description:	An <i>exit service</i> combined with a <i>connection service</i> and a <i>reference service (metering)</i> at an <i>exit point</i> on the <i>transmission system</i> .
Eligibility Criteria:	<p><i>Users</i> are eligible to use this <i>service</i> if:</p> <ol style="list-style-type: none"> 1. The <i>meter</i> is configured to measure the transfer of electricity out of the <i>Western Power Network</i>; and 2. The <i>consumer’s facilities and equipment</i> comply with the <i>technical rules</i>, the <i>WA Electrical Requirements</i> and AS 3000; and 3. Each of the following does not apply under an agreement with Western Power: <ol style="list-style-type: none"> a. The tariff that determines the <i>charge</i> is different to the Applicable Reference Tariff for this <i>service</i>; or b. The <i>user</i> is to receive delivered electricity at a <i>service standard</i> different to the Applicable Service Standard Benchmarks for this <i>service</i>.
Applicable Reference Tariff:	“TRT1” in the applicable <i>Price List</i> published in Appendix F of the <i>access arrangement</i> .
Applicable Standard Access Contract:	“Electricity Transfer Access Contract” published in Appendix A of the <i>access arrangement</i> .
Applicable Service Standard Benchmarks:	As set out in section 4.3 of the <i>access arrangement</i> .

Reference Service Name:	Reference Service A12 – 3 Part Time of Use Energy (Residential) Exit Service
Reference Service Description:	An <i>exit service</i> combined with a <i>connection service</i> and a <i>reference service (metering)</i> at an <i>exit point</i> on the low voltage (415 volts or less) <i>distribution system</i> .
Eligibility Criteria:	<p><i>Users</i> are eligible to use this <i>service</i> if:</p> <ol style="list-style-type: none"> 1. The <i>exit point</i> is located at the <i>residential premises</i> or premises occupied by a <i>voluntary/charitable organisation</i>; and 2. The <i>meter</i> is configured to measure the transfer of electricity out of the <i>Western Power Network</i> and if it is an <i>accumulation meter</i>, it is configured for time bands set out in the <i>price list</i> for RT17; and 3. The <i>consumer’s facilities and equipment</i> comply with the <i>technical rules</i>, the <i>WA Electrical Requirements</i> and AS 3000; and 4. Each of the following does not apply under an agreement with Western Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the <i>charge</i> is different to the Applicable Reference Tariff for this <i>service</i>; or b. The <i>user</i> is to receive delivered electricity at a <i>service standard</i> different to the Applicable Service Standard Benchmarks for this <i>service</i>.
Applicable Reference Tariff:	“RT17” in the applicable <i>Price List</i> published in Appendix F of the <i>access arrangement</i> .
Applicable Standard Access Contract:	“Electricity Transfer Access Contract” published in Appendix A of the <i>access arrangement</i> .
Applicable Service Standard Benchmarks:	As set out in section 4.2 of the <i>access arrangement</i> .

Reference Service Name:	Reference Service A13 – 3 Part Time of Use Energy (Business) Exit Service
Reference Service Description:	An <i>exit service</i> combined with a <i>connection service</i> and a <i>reference service (metering)</i> at an <i>exit point</i> on the low voltage (415 volts or less) <i>distribution system</i> .
Eligibility Criteria:	<p><i>Users</i> are eligible to use this <i>service</i> if:</p> <ol style="list-style-type: none"> 1. The <i>exit point</i> is located at <i>non-residential</i>; and 2. The maximum demand at the <i>exit point</i> is: <ol style="list-style-type: none"> a. less than 1,500 kVA based on historic metering data; or b. Western Power determines, as a <i>reasonable and prudent person</i>, that the <i>user's</i> forecast maximum demand will be less than 1,500 kVA; and 3. The <i>meter</i> is configured to measure the transfer of electricity out of the <i>Western Power Network</i> and if it is an <i>accumulation meter</i>, it is configured for time bands set out in the <i>price list</i> for RT18; and 4. The <i>consumer's facilities and equipment</i> comply with the <i>technical rules</i>, the <i>WA Electrical Requirements</i> and AS 3000; and 5. Each of the following does not apply under an agreement with Western Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the <i>charge</i> is different to the Applicable Reference Tariff for this <i>service</i>; or b. The <i>user</i> is to receive delivered electricity at a <i>service standard</i> different to the Applicable Service Standard Benchmarks for this <i>service</i>.
Applicable Reference Tariff:	"RT18" in the applicable <i>Price List</i> published in Appendix F of the <i>access arrangement</i> .
Applicable Standard Access Contract:	"Electricity Transfer Access Contract" published in Appendix A of the <i>access arrangement</i> .
Applicable Service Standard Benchmarks:	As set out in section 4.2 of the <i>access arrangement</i> .

Reference Service Name:	Reference Service A14 – 3 Part Time of Use Demand (Residential) Exit Service
Reference Service Description:	An <i>exit service</i> combined with a <i>connection service</i> and a <i>reference service (metering)</i> at an <i>exit point</i> on the low voltage (415 volts or less) <i>distribution system</i> .
Eligibility Criteria:	<p><i>Users</i> are eligible to use this <i>service</i> if:</p> <ol style="list-style-type: none"> 1. The <i>exit point</i> is located at the <i>residential premises</i> or premises occupied by a <i>voluntary/charitable organisation</i>; and 2. The <i>meter</i> is configured to measure the transfer of electricity out of the <i>Western Power Network</i> and if it is an <i>accumulation meter</i>, it is configured for time bands set out in the <i>price list</i> for RT19; and 3. The <i>consumer’s facilities and equipment</i> comply with the <i>technical rules</i>, the <i>WA Electrical Requirements</i> and AS 3000; and 4. Each of the following does not apply under an agreement with Western Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the <i>charge</i> is different to the Applicable Reference Tariff for this <i>service</i>; or b. The <i>user</i> is to receive delivered electricity at a <i>service standard</i> different to the Applicable Service Standard Benchmarks for this <i>service</i>.
Applicable Reference Tariff:	“RT19” in the applicable <i>Price List</i> published in Appendix F of the <i>access arrangement</i> .
Applicable Standard Access Contract:	“Electricity Transfer Access Contract” published in Appendix A of the <i>access arrangement</i> .
Applicable Service Standard Benchmarks:	As set out in section 4.2 of the <i>access arrangement</i> .

Reference Service Name:	Reference Service A15 – 3 Part Time of Use Demand (Business) Exit Service
Reference Service Description:	An <i>exit service</i> combined with a <i>connection service</i> and a <i>reference service (metering)</i> at an <i>exit point</i> on the low voltage (415 volts or less) <i>distribution system</i> .
Eligibility Criteria:	<p><i>Users</i> are eligible to use this <i>service</i> if:</p> <ol style="list-style-type: none"> 1. The <i>exit point</i> is located at <i>non-residential premises</i>; and 2. The maximum demand at the <i>exit point</i> is: <ol style="list-style-type: none"> a. less than 1,500 kVA based on historic metering data; or b. Western Power determines, as a <i>reasonable and prudent person</i>, that the <i>user's</i> forecast maximum demand will be less than 1,500 kVA; and 3. The <i>meter</i> is configured to measure the transfer of electricity out of the <i>Western Power Network</i> and if it is an <i>accumulation meter</i>, it is configured for time bands set out in the <i>price list</i> for RT20; and 4. The <i>consumer's facilities and equipment</i> comply with the <i>technical rules</i>, the <i>WA Electrical Requirements</i> and AS 3000; and 5. Each of the following does not apply under an agreement with Western Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the <i>charge</i> is different to the Applicable Reference Tariff for this <i>service</i>; or b. The <i>user</i> is to receive delivered electricity at a <i>service standard</i> different to the Applicable Service Standard Benchmarks for this <i>service</i>.
Applicable Reference Tariff:	"RT20" in the applicable <i>Price List</i> published in Appendix F of the <i>access arrangement</i> .
Applicable Standard Access Contract:	"Electricity Transfer Access Contract" published in Appendix A of the <i>access arrangement</i> .
Applicable Service Standard Benchmarks:	As set out in section 4.2 of the <i>access arrangement</i> .

Reference Service Name:	Reference Service A16 – Multi Part Time of Use Energy (Residential) Exit Service
Reference Service Description:	An <i>exit service</i> combined with a <i>connection service</i> and a <i>reference service (metering)</i> at an <i>exit point</i> on the low voltage (415 volts or less) <i>distribution system</i> .
Eligibility Criteria:	<p><i>Users</i> are eligible to use this <i>service</i> if:</p> <ol style="list-style-type: none"> 1. The <i>exit point</i> is located at the <i>residential premises</i> or premises occupied by a <i>voluntary/charitable organisation</i>; and 2. The <i>meter</i> is configured to measure the transfer of electricity out of the <i>Western Power Network</i> and if it is an <i>accumulation meter</i>, it is configured for time bands set out in the <i>price list</i> for RT21; and 3. The <i>consumer’s facilities and equipment</i> comply with the <i>technical rules</i>, the <i>WA Electrical Requirements</i> and AS 3000; and 4. Each of the following does not apply under an agreement with Western Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the <i>charge</i> is different to the Applicable Reference Tariff for this <i>service</i>; or b. The <i>user</i> is to receive delivered electricity at a <i>service standard</i> different to the Applicable Service Standard Benchmarks for this <i>service</i>.
Applicable Reference Tariff:	“RT21” in the applicable <i>Price List</i> published in Appendix F of the <i>access arrangement</i> .
Applicable Standard Access Contract:	“Electricity Transfer Access Contract” published in Appendix A of the <i>access arrangement</i> .
Applicable Service Standard Benchmarks:	As set out in section 4.2 of the <i>access arrangement</i> .

Reference Service Name:	Reference Service A17 – Multi Part Time of Use Energy (Business) Exit Service
Reference Service Description:	An <i>exit service</i> combined with a <i>connection service</i> and a <i>reference service (metering)</i> at an <i>exit point</i> on the low voltage (415 volts or less) <i>distribution system</i> .
Eligibility Criteria:	<p><i>Users</i> are eligible to use this <i>service</i> if:</p> <ol style="list-style-type: none"> 1. The <i>exit point</i> is located at <i>non-residential premises</i>; and 2. The maximum demand at the <i>exit point</i> is: <ol style="list-style-type: none"> a. less than 1,500 kVA based on historic metering data; or b. Western Power determines, as a <i>reasonable and prudent person</i>, that the <i>user's</i> forecast maximum demand will be less than 1,500 kVA; and 3. The <i>meter</i> is configured to measure the transfer of electricity out of the <i>Western Power Network</i> and if it is an <i>accumulation meter</i>, it is configured for time bands set out in the <i>price list</i> for RT22; and 4. The <i>consumer's facilities and equipment</i> comply with the <i>technical rules</i>, the <i>WA Electrical Requirements</i> and AS 3000; and 5. Each of the following does not apply under an agreement with Western Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the <i>charge</i> is different to the Applicable Reference Tariff for this <i>service</i>; or b. The <i>user</i> is to receive delivered electricity at a <i>service standard</i> different to the Applicable Service Standard Benchmarks for this <i>service</i>.
Applicable Reference Tariff:	"RT22" in the applicable <i>Price List</i> published in Appendix F of the <i>access arrangement</i> .
Applicable Standard Access Contract:	"Electricity Transfer Access Contract" published in Appendix A of the <i>access arrangement</i> .
Applicable Service Standard Benchmarks:	As set out in section 4.2 of the <i>access arrangement</i> .

3. Reference Services (Entry Services)

Western Power offers 3 *entry services* as *reference services*.

Reference Service Name:	Reference Service B1 – Distribution Entry Service
Reference Service Description:	An <i>entry service</i> combined with a <i>connection service</i> and a <i>reference service (metering)</i> on the <i>distribution system</i> .
Eligibility Criteria:	<p><i>Users</i> are eligible to use this <i>service</i> if:</p> <ol style="list-style-type: none"> 1. The <i>meter</i> is configured to measure the transfer of electricity into the <i>Western Power Network</i>; and 2. The <i>generator’s facilities and equipment</i> comply with the <i>technical rules</i>, the <i>WA Electrical Requirements</i> and AS 3000; and 3. Each of the following does not apply under an agreement with Western Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the <i>charge</i> is different to the <i>Applicable Reference Tariff</i> for this <i>service</i>; or b. The <i>user</i> is to receive delivered electricity at a <i>service standard</i> different to the <i>Applicable Service Standard Benchmarks</i> for this <i>service</i>.
Applicable Reference Tariff:	“RT11” in the applicable <i>Price List</i> published in Appendix F of the <i>access arrangement</i> .
Applicable Standard Access Contract:	“Electricity Transfer Access Contract” published in Appendix A of the <i>access arrangement</i> .
Applicable Service Standard Benchmarks:	As set out in section 4.2 of the <i>access arrangement</i> .

Reference Service Name:	Reference Service B2 – Transmission Entry Service
Reference Service Description:	An <i>entry service</i> combined with a <i>connection service</i> and a <i>reference service (metering)</i> at an <i>entry point</i> on the <i>transmission system</i> .
Eligibility Criteria:	<p><i>Users</i> are eligible to use this <i>service</i> if:</p> <ol style="list-style-type: none"> 1. The <i>meter</i> is configured to measure the transfer of electricity into the <i>Western Power Network</i>; and 2. The <i>generator’s facilities and equipment</i> comply with the <i>technical rules</i>, the <i>WA Electrical Requirements</i> and AS 3000; and 3. Each of the following does not apply under an agreement with Western Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the <i>charge</i> is different to the Applicable Reference Tariff for this <i>service</i>; or b. The <i>user</i> is to receive delivered electricity at a <i>service standard</i> different to the Applicable Service Standard Benchmarks for this <i>service</i>.
Applicable Reference Tariff:	“TRT2” in the applicable <i>Price List</i> published in Appendix F of the <i>access arrangement</i> .
Applicable Standard Access Contract:	“Electricity Transfer Access Contract” published in Appendix A of the <i>access arrangement</i> .
Applicable Service Standard Benchmarks:	As set out in Section 4.3 of the <i>access arrangement</i> .

Reference Service Name:	Reference Service B3 – Entry Service Facilitating a Distributed Generation or Other Non-Network Solution
Reference Service Description:	<p>An <i>entry service</i> provided on the same basis as <i>entry service</i> B1 in circumstances where this <i>service</i> provides for <i>facilities and equipment</i> connected behind a <i>connection point</i> (including distributed <i>generating plant</i> and other non-network solutions) that results in Western Power’s capital-related costs or non-capital costs reducing as a result of the entry point for the distributed generating plant or other non-network solution being located in that particular part of the covered network.</p> <p>{Note: a ‘thin connection’ that involves the export of electricity onto the <i>Western Power Network</i> or the provision of another network support service may be eligible for this reference service.}</p>
Eligibility Criteria:	<p><i>Users</i> are eligible to use this <i>service</i> if:</p> <ol style="list-style-type: none"> 1. All of the <i>eligibility criteria</i> for <i>entry service</i> B1 are met.
Applicable Reference Tariff:	“RT23” in the applicable <i>Price List</i> published in Appendix F of the <i>access arrangement</i> .
Applicable Standard Access Contract:	“Electricity Transfer Access Contract” published in Appendix A of the <i>access arrangement</i> .
Applicable Service Standard Benchmarks:	As set out in Section 4.3 of the <i>access arrangement</i> .

4. Reference Services (Bi-directional Services)

Western Power offers 15 *bi-directional services as reference services*.

Reference Service Name:	Reference Service C1 – Anytime Energy (Residential) Bi-directional Service
Reference Service Description:	A <i>bi-directional service</i> combined with a <i>connection service</i> and a <i>reference service (metering)</i> at a <i>bi-directional point</i> on the low voltage (415 volts or less) <i>distribution system</i> .
Eligibility Criteria:	<p>Users are eligible to use this <i>service</i> if:</p> <ol style="list-style-type: none"> 1. The <i>bi-directional point</i> is located at a <i>residential premises</i> or premises occupied by a <i>voluntary/charitable organisation</i> with an inverter system rated up to 10 kVA for single phase connections and 30 kVA for three phase connections; and 2. The <i>meter</i> is configured to measure the transfer of electricity into and out of the <i>Western Power Network</i>; and 3. The <i>consumer's</i> inverter system complies with the requirements of AS 4777 and the <i>technical rules</i>; and 4. The <i>consumer's facilities and equipment</i> comply with the <i>technical rules</i>, the <i>WA Electrical Requirements</i> and AS 3000; and 5. Each of the following does not apply under an agreement with Western Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the <i>charge</i> is different to the Applicable Reference Tariff for this <i>service</i>; or b. The <i>user</i> is to receive delivered electricity at a <i>service standard</i> different to the Applicable Service Standard Benchmarks for this <i>service</i>.
Applicable Reference Tariff:	"RT13" in the applicable <i>Price List</i> published in Appendix F of the <i>access arrangement</i> .
Applicable Standard Access Contract:	"Electricity Transfer Access Contract" published in Appendix A of the <i>access arrangement</i> .
Applicable Service Standard Benchmarks:	As set out in Section 4.2 of the <i>access arrangement</i> .

Reference Service Name:	Reference Service C2 – Anytime Energy (Business) Bi-directional Service
Reference Service Description:	A <i>bi-directional service</i> combined with a <i>connection service</i> and a <i>reference service (metering)</i> at a <i>bi-directional point</i> on the low voltage (415 volts or less) <i>distribution system</i> .
Eligibility Criteria:	<p><i>Users</i> are eligible to use this <i>service</i> if:</p> <ol style="list-style-type: none"> 1. The <i>bi-directional point</i> is located at <i>non-residential premises</i> with an inverter system rated up to a total of 1 MVA for single or three-phase connections; and 2. The <i>meter</i> is configured to measure the transfer of electricity into and out of the <i>Western Power Network</i>; and 3. The <i>consumer's</i> inverter system complies with the requirements of AS 4777 and the <i>technical rules</i>, and satisfies a technical assessment by Western Power for installations larger than 30kVA; and 4. The <i>consumer's facilities and equipment</i> comply with the <i>technical rules</i>, the <i>WA Electrical Requirements</i> and AS 3000; and 5. Each of the following does not apply under an agreement with Western Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the <i>charge</i> is different to the Applicable Reference Tariff for this <i>service</i>; or b. The <i>user</i> is to receive delivered electricity at a <i>service standard</i> different to the Applicable Service Standard Benchmarks for this <i>service</i>.
Applicable Reference Tariff:	"RT14" in the applicable <i>Price List</i> published in Appendix F of the <i>access arrangement</i> .
Applicable Standard Access Contract:	"Electricity Transfer Access Contract" published in Appendix A of the <i>access arrangement</i> .
Applicable Service Standard Benchmarks:	As set out in section 4.2 of the <i>access arrangement</i> .

Reference Service Name:	Reference Service C3 – Time of Use Energy (Residential) Bi-directional Service
Reference Service Description:	A <i>bi-directional service</i> combined with a <i>connection service</i> and a <i>reference service (metering)</i> at a <i>bi-directional point</i> on the low voltage (415 volts or less) <i>distribution system</i> .
Eligibility Criteria:	<p><i>Users</i> are eligible to use this <i>service</i> if:</p> <ol style="list-style-type: none"> 1. The <i>bi-directional point</i> is located at a <i>residential premises</i> or premises occupied by a <i>voluntary/charitable organisation</i> with an inverter system rated up to 10 kVA for single phase connections and 30 kVA for three phase connections; and 2. The <i>meter</i> is configured to measure the transfer of electricity into and out of the <i>Western Power Network</i> for the time bands set out in the <i>price list</i> for RT15; and 3. This C3 – Time of Use Energy (Residential) – Bi-Directional Service: <ol style="list-style-type: none"> a. was provided at the <i>connection point</i> as at the <i>AA4 effective date</i>; and b. has continued to be provided at the <i>connection point</i> from the <i>AA4 effective date</i>; and 4. The <i>consumer’s</i> inverter system complies with the requirements of AS 4777 and the <i>technical rules</i>; and 5. The <i>consumer’s facilities and equipment</i> comply with the <i>technical rules</i>, the <i>WA Electrical Requirements</i> and AS 3000; and 6. Each of the following does not apply under an agreement with Western Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the <i>charge</i> is different to the Applicable Reference Tariff for this <i>service</i>; or b. The <i>user</i> is to receive delivered electricity at a <i>service standard</i> different to the Applicable Service Standard Benchmarks for this <i>service</i>.
Applicable Reference Tariff:	“RT15” in the applicable <i>Price List</i> published in Appendix F of the <i>access arrangement</i> .
Applicable Standard Access Contract:	“Electricity Transfer Access Contract” published in Appendix A of the <i>access arrangement</i> .
Applicable Service Standard Benchmarks:	As set out in section 4.2 of the <i>access arrangement</i> .

Reference Service Name:	Reference Service C4 – Time of Use Energy (Business) Bi-directional Service
Reference Service Description:	A <i>bi-directional service</i> combined with a <i>connection service</i> and a <i>reference service (metering)</i> at a <i>bi-directional point</i> on the low voltage (415 volts or less) <i>distribution system</i> .
Eligibility Criteria:	<p><i>Users</i> are eligible to use this <i>service</i> if:</p> <ol style="list-style-type: none"> 1. The <i>bi-directional point</i> is located at <i>non-residential premises</i> with an inverter system rated up to a total of 1 MVA for single or three-phase connections; and 2. The <i>meter</i> is configured to measure the transfer of electricity into and out of the <i>Western Power Network</i> for the time bands set out in the <i>price list</i> for RT16; and 3. This C4 – Time of Use Energy (Business) – Bi-directional Service: <ol style="list-style-type: none"> a. was provided at the <i>connection point</i> as at the <i>AA4 effective date</i>; and b. has continued to be provided at the <i>connection point</i> from the <i>AA4 effective date</i>; and 4. The <i>consumer's</i> inverter system complies with the requirements of AS 4777 and the <i>technical rules</i>, and satisfies a technical assessment by Western Power for installations larger than 30kVA; and 5. The <i>consumer's facilities and equipment</i> comply with the <i>technical rules</i>, the <i>WA Electrical Requirements</i> and AS 3000; and 6. Each of the following does not apply under an agreement with Western Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the <i>charge</i> is different to the Applicable Reference Tariff for this <i>service</i>; or b. The <i>user</i> is to receive delivered electricity at a <i>service standard</i> different to the Applicable Service Standard Benchmarks for this <i>service</i>.
Applicable Reference Tariff:	"RT16" in the applicable <i>Price List</i> published in Appendix F of the <i>access arrangement</i> .
Applicable Standard Access Contract:	"Electricity Transfer Access Contract" published in Appendix A of the <i>access arrangement</i> .
Applicable Service Standard Benchmarks:	As set out in section 4.2 of the <i>access arrangement</i> .

Reference Service Name:	Reference Service C5 – High Voltage Metered Demand Bi-directional Service
Reference Service Description:	A <i>bi-directional service</i> combined with a <i>connection service</i> and a <i>reference service (metering)</i> at a <i>bi-directional point</i> on the high voltage (6.6 kV or higher) <i>distribution system</i> .
Eligibility Criteria:	<p>Users are eligible to use this <i>service</i> if:</p> <ol style="list-style-type: none"> 1. The <i>bi-directional point</i> is located at <i>non-residential premises</i>; and 2. The maximum demand at the <i>bi-directional point</i> is: <ol style="list-style-type: none"> a. less than 1,500 kVA based on historic metering data; or b. Western Power determines, as a <i>reasonable and prudent person</i>, that the <i>user's</i> forecast maximum demand will be less than 1,500 kVA; and 3. The <i>meter</i> is configured to measure the transfer of electricity into and out of the <i>Western Power Network</i>; and 4. The <i>consumer's facilities and equipment</i> comply with the <i>technical rules</i>, the <i>WA Electrical Requirements</i> and AS 3000; and 5. The premises have an inverter system rated up to a total of 1 MVA for single or three-phase connections; and 6. The <i>consumer's</i> inverter system complies with the requirements of AS 4777 and the <i>technical rules</i>, and satisfies a technical assessment by Western Power for installations larger than 30kVA; and 7. Each of the following does not apply under an agreement with Western Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the <i>charge</i> is different to the Applicable Reference Tariff for this <i>service</i>; or b. The <i>user</i> is to receive delivered electricity at a <i>service standard</i> different to the Applicable Service Standard Benchmarks for this <i>service</i>.
Applicable Reference Tariff:	"RT5" in the Price List published in Appendix F of the <i>access arrangement</i> .
Applicable Standard Access Contract:	"Electricity Transfer Access Contract" published in Appendix A of the <i>access arrangement</i> .
Applicable Service Standard Benchmarks:	As set out in section 4.2 of the <i>access arrangement</i> .

Reference Service Name:	Reference Service C6 – Low Voltage Metered Demand Bi-directional Service
Reference Service Description:	A <i>bi-directional service</i> combined with a <i>connection service</i> and a <i>reference service (metering)</i> at a <i>bi-directional point</i> on the low voltage (415 volts or less) <i>distribution system</i> .
Eligibility Criteria:	<p><i>Users</i> are eligible to use this <i>service</i> if:</p> <ol style="list-style-type: none"> 1. The <i>bi-directional point</i> is located at <i>non-residential premises</i>; and 2. The maximum demand at the <i>bi-directional point</i> is: <ol style="list-style-type: none"> a. less than 1,500 kVA based on historic metering data; or b. Western Power determines, as a <i>reasonable and prudent person</i>, that the <i>user's</i> forecast maximum demand will be less than 1,500 kVA; and 3. The <i>meter</i> is configured to measure the transfer of electricity into and out of the <i>Western Power Network</i>; and 4. The <i>consumer's facilities and equipment</i> comply with the <i>technical rules</i>, the <i>WA Electrical Requirements</i> and AS 3000; and 5. The premises have an inverter system rated up to a total of 1 MVA for single or three-phase connections; and 6. The <i>consumer's</i> inverter system complies with the requirements of AS 4777 and the <i>technical rules</i>, and satisfies a technical assessment by Western Power for installations larger than 30kVA; and 7. Each of the following does not apply under an agreement with Western Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the <i>charge</i> is different to the Applicable Reference Tariff for this <i>service</i>; or b. The <i>user</i> is to receive delivered electricity at a <i>service standard</i> different to the Applicable Service Standard Benchmarks for this <i>service</i>.
Applicable Reference Tariff:	"RT6" in the applicable Price List published in Appendix F of the <i>access arrangement</i> .
Applicable Standard Access Contract:	"Electricity Transfer Access Contract" published in Appendix A of the <i>access arrangement</i> .
Applicable Service Standard Benchmarks:	As set out in section 4.2 of the <i>access arrangement</i> .

Reference Service Name:	Reference Service C7 – High Voltage Contract Maximum Demand Bi-directional Service
Reference Service Description:	A <i>bi-directional service</i> combined with a <i>connection service</i> and a <i>reference service (metering)</i> at a <i>bi-directional point</i> on the high voltage (6.6 kV or higher) <i>distribution system</i> .
Eligibility Criteria:	<p>Users are eligible to use this <i>service</i> if:</p> <ol style="list-style-type: none"> 1. The <i>bi-directional point</i> is located at <i>non-residential premises</i>; and 2. The contracted maximum demand at the <i>bi-directional point</i> is greater than 1,000 kVA; and 3. The <i>meter</i> is configured to measure the transfer of electricity into and out of the <i>Western Power Network</i>; and 4. The <i>consumer's facilities and equipment</i> comply with the <i>technical rules</i>, the <i>WA Electrical Requirements</i> and AS 3000; and 5. The premises have an inverter system rated up to a total of 1 MVA for single or three-phase connections; and 6. The <i>consumer's</i> inverter system complies with the requirements of AS 4777 and the <i>technical rules</i>, and satisfies a technical assessment by Western Power for installations larger than 30kVA; and 7. Each of the following does not apply under an agreement with Western Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the <i>charge</i> is different to the Applicable Reference Tariff for this <i>service</i>; or b. The <i>user</i> is to receive delivered electricity at a <i>service standard</i> different to the Applicable Service Standard Benchmarks for this <i>service</i>.
Applicable Reference Tariff:	"RT7" in the applicable <i>Price List</i> published in Appendix F of the <i>access arrangement</i> .
Applicable Standard Access Contract:	"Electricity Transfer Access Contract" published in Appendix A of the <i>access arrangement</i> .
Applicable Service Standard Benchmarks:	As set out in section 4.2 of the <i>access arrangement</i> .

Reference Service Name:	Reference Service C8 – Low Voltage Contract Maximum Demand Bi-directional Service
Reference Service Description:	A <i>bi-directional service</i> combined with a <i>connection service</i> and a <i>reference service (metering)</i> at a <i>bi-directional point</i> on the low voltage (415 volts or less) <i>distribution system</i> .
Eligibility Criteria:	<p><i>Users</i> are eligible to use this <i>service</i> if:</p> <ol style="list-style-type: none"> 1. The <i>bi-directional point</i> is located at <i>non-residential premises</i>; and 2. The contracted maximum demand at the <i>bi-directional point</i> is greater than 1,000 kVA; and 3. The <i>meter</i> is configured to measure the transfer of electricity into and out of the <i>Western Power Network</i>; and 4. The <i>consumer's facilities and equipment</i> comply with the <i>technical rules</i>, the <i>WA Electrical Requirements</i> and AS 3000; and 5. The premises have an inverter system rated up to a total of 1 MVA for single or three-phase connections; and 6. The <i>consumer's</i> inverter system complies with the requirements of AS 4777 and the <i>technical rules</i>, and satisfies a technical assessment by Western Power for installations larger than 30kVA; and 7. Each of the following does not apply under an agreement with Western Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the <i>charge</i> is different to the Applicable Reference Tariff for this <i>service</i>; or b. The <i>user</i> is to receive delivered electricity at a <i>service standard</i> different to the Applicable Service Standard Benchmarks for this <i>service</i>.
Applicable Reference Tariff:	"RT8" in the applicable <i>Price List</i> published in Appendix F of the <i>access arrangement</i> .
Applicable Standard Access Contract:	"Electricity Transfer Access Contract" published in Appendix A of the <i>access arrangement</i> .
Applicable Service Standard Benchmarks:	As set out in section 4.2 of the <i>access arrangement</i> .

Reference Service Name:	Reference Service C9 – 3 Part Time of Use Energy (Residential) Bi-directional Service
Reference Service Description:	A <i>bi-directional service</i> combined with a <i>connection service</i> and a <i>reference service (metering)</i> at a <i>bi-directional point</i> on the low voltage (415 volts or less) <i>distribution system</i> .
Eligibility Criteria:	<p>Users are eligible to use this <i>service</i> if:</p> <ol style="list-style-type: none"> 1. The <i>bi-directional point</i> is located at a <i>residential premises</i> or premises occupied by a <i>voluntary/charitable organisation</i> with an inverter system rated up to 10 kVA for single phase connections and 30 kVA for three phase connections; and 2. The <i>meter</i> is configured to measure the transfer of electricity into and out of the <i>Western Power Network</i> for the time bands set out in the <i>price list</i> for RT17; and 3. The <i>consumer’s</i> inverter system complies with the requirements of AS 4777 and the <i>technical rules</i>; and 4. The <i>consumer’s facilities and equipment</i> comply with the <i>technical rules</i>, the <i>WA Electrical Requirements</i> and AS 3000; and 5. Each of the following does not apply under an agreement with Western Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the <i>charge</i> is different to the Applicable Reference Tariff for this <i>service</i>; or b. The <i>user</i> is to receive delivered electricity at a <i>service standard</i> different to the Applicable Service Standard Benchmarks for this <i>service</i>.
Applicable Reference Tariff:	“RT17” in the applicable <i>Price List</i> published in Appendix F of the <i>access arrangement</i> .
Applicable Standard Access Contract:	“Electricity Transfer Access Contract” published in Appendix A of the <i>access arrangement</i> .
Applicable Service Standard Benchmarks:	As set out in section 4.2 of the <i>access arrangement</i> .

Reference Service Name:	Reference Service C10 – 3 Part Time of Use Energy (Business) Bi-directional Service
Reference Service Description:	A <i>bi-directional service</i> combined with a <i>connection service</i> and a <i>reference service (metering)</i> at a <i>bi-directional point</i> on the low voltage (415 volts or less) <i>distribution system</i> .
Eligibility Criteria:	<p><i>Users</i> are eligible to use this <i>service</i> if:</p> <ol style="list-style-type: none"> 1. The <i>bi-directional point</i> is located at <i>non-residential premises</i> with an inverter system rated up to a total of 1 MVA for single or three-phase connections; and 2. The <i>meter</i> is configured to measure the transfer of electricity into and out of the <i>Western Power Network</i> for the time bands set out in the <i>price list</i> for RT18; and 3. The <i>consumer’s</i> inverter system complies with the requirements of AS 4777 and the <i>technical rules</i>, and satisfies a technical assessment by Western Power for installations larger than 30kVA; and 4. The <i>consumer’s facilities and equipment</i> comply with the <i>technical rules</i>, the <i>WA Electrical Requirements</i> and AS 3000; and 5. Each of the following does not apply under an agreement with Western Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the <i>charge</i> is different to the Applicable Reference Tariff for this <i>service</i>; or b. The <i>user</i> is to receive delivered electricity at a <i>service standard</i> different to the Applicable Service Standard Benchmarks for this <i>service</i>.
Applicable Reference Tariff:	“RT18” in the applicable <i>Price List</i> published in Appendix F of the <i>access arrangement</i> .
Applicable Standard Access Contract:	“Electricity Transfer Access Contract” published in Appendix A of the <i>access arrangement</i> .
Applicable Service Standard Benchmarks:	As set out in section 4.2 of the <i>access arrangement</i> .

Reference Service Name:	Reference Service C11 – 3 Part Time of Use Demand (Residential) Bi-directional Service
Reference Service Description:	A <i>bi-directional service</i> combined with a <i>connection service</i> and a <i>reference service (metering)</i> at a <i>bi-directional point</i> on the low voltage (415 volts or less) <i>distribution system</i> .
Eligibility Criteria:	<p>Users are eligible to use this <i>service</i> if:</p> <ol style="list-style-type: none"> 1. The <i>bi-directional point</i> is located at a <i>residential premises</i> or premises occupied by a <i>voluntary/charitable organisation</i> with an inverter system rated up to 10 kVA for single phase connections and 30 kVA for three phase connections; and 2. The <i>meter</i> is configured to measure the transfer of electricity into and out of the <i>Western Power Network</i> for the time bands set out in the <i>price list</i> for RT19; and 3. The <i>consumer's</i> inverter system complies with the requirements of AS 4777 and the <i>technical rules</i>; and 4. The <i>consumer's facilities and equipment</i> comply with the <i>technical rules</i>, the <i>WA Electrical Requirements</i> and AS 3000; and 5. Each of the following does not apply under an agreement with Western Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the <i>charge</i> is different to the Applicable Reference Tariff for this <i>service</i>; or b. The <i>user</i> is to receive delivered electricity at a <i>service standard</i> different to the Applicable Service Standard Benchmarks for this <i>service</i>.
Applicable Reference Tariff:	"RT19" in the applicable <i>Price List</i> published in Appendix F of the <i>access arrangement</i> .
Applicable Standard Access Contract:	"Electricity Transfer Access Contract" published in Appendix A of the <i>access arrangement</i> .
Applicable Service Standard Benchmarks:	As set out in section 4.2 of the <i>access arrangement</i> .

Reference Service Name:	Reference Service C12 – 3 Part Time of Use Demand (Business) Bi-directional Service
Reference Service Description:	A <i>bi-directional service</i> combined with a <i>connection service</i> and a <i>reference service (metering)</i> at a <i>bi-directional point</i> on the low voltage (415 volts or less) <i>distribution system</i> .
Eligibility Criteria:	<p>Users are eligible to use this <i>service</i> if:</p> <ol style="list-style-type: none"> 1. The <i>bi-directional point</i> is located at <i>non-residential premises</i> with an inverter system rated up to a total of 1 MVA for single or three-phase connections; and 2. The <i>meter</i> is configured to measure the transfer of electricity into and out of the <i>Western Power Network</i> for the time bands set out in the <i>price list</i> for RT20; and 3. The <i>consumer’s</i> inverter system complies with the requirements of AS 4777 and the <i>technical rules</i>, and satisfies a technical assessment by Western Power for installations larger than 30kVA; and 4. The <i>consumer’s facilities and equipment</i> comply with the <i>technical rules</i>, the <i>WA Electrical Requirements</i> and AS 3000; and 5. Each of the following does not apply under an agreement with Western Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the <i>charge</i> is different to the Applicable Reference Tariff for this <i>service</i>; or b. The <i>user</i> is to receive delivered electricity at a <i>service standard</i> different to the Applicable Service Standard Benchmarks for this <i>service</i>.
Applicable Reference Tariff:	“RT20” in the applicable <i>Price List</i> published in Appendix F of the <i>access arrangement</i> .
Applicable Standard Access Contract:	“Electricity Transfer Access Contract” published in Appendix A of the <i>access arrangement</i> .
Applicable Service Standard Benchmarks:	As set out in section 4.2 of the <i>access arrangement</i> .

Reference Service Name:	Reference Service C13 – Multi Part Time of Use Demand (Residential) Bi-directional Service
Reference Service Description:	A <i>bi-directional service</i> combined with a <i>connection service</i> and a <i>reference service (metering)</i> at a <i>bi-directional point</i> on the low voltage (415 volts or less) <i>distribution system</i> .
Eligibility Criteria:	<p>Users are eligible to use this <i>service</i> if:</p> <ol style="list-style-type: none"> 1. The <i>bi-directional point</i> is located at a <i>residential premises</i> or premises occupied by a <i>voluntary/charitable organisation</i> with an inverter system rated up to 10 kVA for single phase connections and 30 kVA for three phase connections; and 2. The <i>meter</i> is configured to measure the transfer of electricity into and out of the <i>Western Power Network</i> for the time bands set out in the <i>price list</i> for RT21; and 3. The <i>consumer's</i> inverter system complies with the requirements of AS 4777 and the <i>technical rules</i>; and 4. The <i>consumer's facilities and equipment</i> comply with the <i>technical rules</i>, the <i>WA Electrical Requirements</i> and AS 3000; and 5. Each of the following does not apply under an agreement with Western Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the <i>charge</i> is different to the Applicable Reference Tariff for this <i>service</i>; or b. The <i>user</i> is to receive delivered electricity at a <i>service standard</i> different to the Applicable Service Standard Benchmarks for this <i>service</i>.
Applicable Reference Tariff:	"RT21" in the applicable <i>Price List</i> published in Appendix F of the <i>access arrangement</i> .
Applicable Standard Access Contract:	"Electricity Transfer Access Contract" published in Appendix A of the <i>access arrangement</i> .
Applicable Service Standard Benchmarks:	As set out in section 4.2 of the <i>access arrangement</i> .

Reference Service Name:	Reference Service C14 – Multi Part Time of Use Demand (Business) Bi-directional Service
Reference Service Description:	A <i>bi-directional service</i> combined with a <i>connection service</i> and a <i>reference service (metering)</i> at a <i>bi-directional point</i> on the low voltage (415 volts or less) <i>distribution system</i> .
Eligibility Criteria:	<p><i>Users</i> are eligible to use this <i>service</i> if:</p> <ol style="list-style-type: none"> 1. The <i>bi-directional point</i> is located at <i>non-residential premises</i> with an inverter system rated up to a total of 1 MVA for single or three-phase connections; and 2. The <i>meter</i> is configured to measure the transfer of electricity into and out of the <i>Western Power Network</i> for the time bands set out in the <i>price list</i> for RT22; and 3. The <i>consumer's</i> inverter system complies with the requirements of AS 4777 and the <i>technical rules</i>, and satisfies a technical assessment by Western Power for installations larger than 30kVA; and 4. The <i>consumer's facilities and equipment</i> comply with the <i>technical rules</i>, the <i>WA Electrical Requirements</i> and AS 3000; and 5. Each of the following does not apply under an agreement with Western Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the <i>charge</i> is different to the Applicable Reference Tariff for this <i>service</i>; or b. The <i>user</i> is to receive delivered electricity at a <i>service standard</i> different to the Applicable Service Standard Benchmarks for this <i>service</i>.
Applicable Reference Tariff:	"RT22" in the applicable <i>Price List</i> published in Appendix F of the <i>access arrangement</i> .
Applicable Standard Access Contract:	"Electricity Transfer Access Contract" published in Appendix A of the <i>access arrangement</i> .
Applicable Service Standard Benchmarks:	As set out in section 4.2 of the <i>access arrangement</i> .

Reference Service Name:	Reference Service C15 – Bi-directional Service Facilitating a Distributed Generation or Other Non-Network Solution
Reference Service Description:	<p>A <i>bi-directional service</i> provided on the same basis as <i>bi-directional services</i> C1 to C14 (selected by the <i>user</i>) in circumstances where this <i>service</i> provides for <i>facilities and equipment</i> connected behind a <i>connection point</i> (including distributed <i>generating plant</i> and other non-network solutions) that results in Western Power’s capital-related costs or non-capital costs reducing as a result of the entry point for the distributed generating plant or other non-network solution being located in that particular part of the covered network.</p> <p>{Note: a ‘thin connection’ that involves the export of electricity onto the <i>Western Power Network</i> or the provision of another network support service may be eligible for this reference service.}</p>
Eligibility Criteria:	<p><i>Users</i> are eligible to use this <i>service</i> if:</p> <ol style="list-style-type: none"> 1. All of the eligibility criteria for bi-directional services C1 or C14 (as applicable) are met.
Applicable Reference Tariff:	“RT24” in the applicable <i>Price List</i> published in Appendix F of the <i>access arrangement</i> .
Applicable Standard Access Contract:	“Electricity Transfer Access Contract” published in Appendix A of the <i>access arrangement</i> .
Applicable Service Standard Benchmarks:	As set out in Section 4.2 of the <i>access arrangement</i> .

5. Reference Services (ancillary)

Western Power offers 9 services at a connection point as a reference service (ancillary).

Reference Service Name:	Reference Service D1 – Supply Abolishment Service
Reference Service Description:	A service ancillary to an exit service, entry service or bi-directional service to permanently disconnect electricity supply, remove the meter and abolish the connection point.
Eligibility Criteria:	<p>Users are eligible to use this service if:</p> <ol style="list-style-type: none"> 1. The user has submitted an <i>electricity transfer application</i> to abolish an existing connection point in accordance with the <i>Applications and Queuing Policy</i> and in accordance with the provisions of its <i>access contract</i>; and 2. The user has an <i>exit service, entry service or bi-directional service</i> at the connection point; and 3. The user has an <i>access contract</i> and the Supply Abolishment Service is required at a connection point specified in that <i>access contract</i>; and 4. The <i>consumer's facilities and equipment</i> can be safely disconnected in accordance with good Electricity Industry practice.
Applicable Reference Tariff:	"RT25" in the applicable <i>Price List</i> published in Appendix F of the <i>access arrangement</i> .
Applicable Standard Access Contract:	"Electricity Transfer Access Contract" published in Appendix A of the <i>access arrangement</i> .
Applicable Service Standard Benchmarks:	As set out in section 4.5 of the <i>access arrangement</i> .

Reference Service Name:	Reference Service D2 –Capacity Allocation Swap (Nominator) (Business) Service
Reference Service Description:	<p>A service ancillary to:</p> <ul style="list-style-type: none"> • <i>exit services</i> A5, A6, A7, A8 and A11; • <i>entry services</i> B1 and B2; and • <i>bi-directional services</i> C5, C6, C7 and C8, <p>under which a <i>user</i> nominates a decrease to its contracted capacity at one or more <i>connection point</i> under its <i>access contract</i> and nominates a corresponding increase in contracted capacity at one or more <i>connection points</i> under its own <i>access contracts</i> or <i>connection points</i> under another <i>user’s access contract</i> for one or more <i>intra day periods</i> for a clearly specified period of time nominated by the <i>user</i> following which the contracted capacity under the <i>user’s access contract</i> is reinstated.</p>
Eligibility Criteria:	<p><i>Users</i> are eligible to use this <i>service</i> if:</p> <ol style="list-style-type: none"> 1. The <i>user</i> has submitted an <i>electricity transfer application</i> to decrease its contracted capacity at one or more <i>connection points</i> and that application is approved; and 2. Western Power receives a corresponding <i>electricity transfer application</i> to increase contracted capacity at one or more <i>connection points</i> pursuant to <i>reference service D3</i> and that application is approved; and 3. All of the <i>eligibility criteria</i> for the <i>reference services</i> at the <i>connection points</i> are met; and 4. The increase and decrease of contracted capacity relates to either contracted maximum demand (CMD) or declared sent out capacity (DSOC) (not both); and 5. The <i>user</i> has an <i>access contract</i> and the Capacity Allocation Swap Service is required at a <i>connection point</i> specified in that <i>access contract</i>. 6. The <i>Western Power Network</i> has the technical capability to give effect to the decrease of contracted capacity; and 7. The service does not include any material modification of the <i>facilities and equipment</i> connected at an existing <i>connection point</i>; and 8. No further augmentation of the <i>Western Power Network</i> is required to facilitate the capacity allocation arrangements; and 9. An operating document setting out the practical, technical and other operational details of the capacity allocation (swap) arrangements has been agreed between the <i>user(s)</i> at the relevant <i>connection points</i> and Western Power; and 10. The provision of the <i>service</i> does not result in the <i>user/s</i>, Western Power, <i>system management</i> or the <i>market operator</i> being unable to comply with their obligations under the Wholesale Electricity Market Rules.
Applicable Reference Tariff:	Any applicable lodgement fees payable in accordance with the <i>Applications and Queuing Policy</i> .
Applicable Standard Access Contract:	“Electricity Transfer Access Contract” published in Appendix A of the <i>access arrangement</i> .
Applicable Service Standard Benchmarks:	<p>The service standard benchmarks (set out in Section 4.2 of the <i>access arrangement</i>) that apply to:</p> <ol style="list-style-type: none"> 1. <i>exit services</i> A5, A6, A7, A8 and A11; 2. <i>entry services</i> B1 and B2; and 3. <i>bi-directional services</i> C5, C6, C7 and C8 <p>(as applicable).</p>

Reference Service Name:	Reference Service D3 –Capacity Allocation Swap (Nominee) (Business) Service
Reference Service Description:	<p>A service ancillary to:</p> <ul style="list-style-type: none"> • exit services A5, A6, A7, A8 and A11; • entry services B1 and B2; and • bi-directional services C5, C6, C7 and C8, <p>under which a <i>user</i> nominates an increase to its contracted capacity at one or more <i>connection point</i> under its <i>access contract</i> and nominates a corresponding decrease in contracted capacity at one or more <i>connection points</i> under its own <i>access contracts</i> or <i>connection points</i> under another <i>user's access contract</i> for one or more <i>intra day period</i> for a clearly specified period of time nominated by the <i>user</i> following which the contracted capacity under the <i>user's access contract</i> is reinstated.</p>
Eligibility Criteria:	<p><i>Users</i> are eligible to use this <i>service</i> if:</p> <ol style="list-style-type: none"> 1. The <i>user</i> has submitted an <i>electricity transfer application</i> to increase its contracted capacity at one or more <i>connection points</i> and that application is approved; and 2. Western Power receives a corresponding <i>electricity transfer application</i> to decrease contracted capacity at one or more <i>connection points</i> pursuant to <i>reference service D2</i> and that application is approved; and 3. All of the <i>eligibility criteria</i> for the <i>reference services</i> at the <i>connection points</i> are met; and 4. The increase and decrease of contracted capacity relates to either CMD or DSOC (not both); and 5. The <i>user</i> has an <i>access contract</i> and the Capacity Allocation Swap Service is required at a <i>connection point</i> specified in that <i>access contract</i>. 6. The <i>Western Power Network</i> has the technical capability to give effect to the increase of contracted capacity; and 7. The service does not include any material modification of the <i>facilities and equipment</i> connected at an existing <i>connection point</i>; and 8. No further augmentation of the <i>Western Power Network</i> is required to facilitate the capacity allocation arrangements; and 9. An operating document setting out the practical, technical and other operational details of the capacity allocation (swap) arrangements has been agreed between the <i>user(s)</i> at the relevant <i>connection points</i> and Western Power; and 10. The provision of the <i>service</i> does not result in the <i>user/s</i>, Western Power, <i>system management</i> or the <i>market operator</i> being unable to comply with their obligations under the Wholesale Electricity Market Rules.
Applicable Reference Tariff:	Any applicable lodgement fees payable in accordance with the <i>Applications and Queuing Policy</i> .
Applicable Standard Access Contract:	"Electricity Transfer Access Contract" published in Appendix A of the <i>access arrangement</i> .
Applicable Service Standard Benchmarks:	<p>The service standard benchmarks (set out in Section 4.2 of the <i>access arrangement</i>) that apply to:</p> <ol style="list-style-type: none"> 1. exit services A5, A6, A7, A8 and A11; 2. entry services B1 and B2; and 3. bi-directional services C5, C6, C7 and C8, <p>(as applicable).</p>

Reference Service Name:	Reference Service D4 –Capacity Allocation Same Connection Point (Nominator) (Business) Service
Reference Service Description:	<p>A service ancillary to:</p> <ul style="list-style-type: none"> • exit services A7, A8 and A11; • entry services B1 and B2; and • bi-directional services C7 and C8, <p>under which a <i>user</i> nominates a decrease to its contracted capacity at a <i>connection point</i> under its <i>access contract</i> (expressed as a percentage of that contracted capacity (DSOC or CMD)) for a clearly specified period of time and nominates a corresponding increase in contracted capacity to another <i>user</i> at the same <i>connection point</i> under its <i>access contract</i>.</p> <p>The allocated capacity is not further transferable or otherwise delegable.</p> <p>At the end of the specified period the contracted capacity under the <i>user's access contract</i> is reinstated.</p>
Eligibility Criteria:	<p><i>Users</i> are eligible to use this <i>service</i> if:</p> <ol style="list-style-type: none"> 1. The <i>user</i> has submitted an <i>electricity transfer application</i> to decrease its contracted capacity at one <i>connection point</i> for a clearly specified period and that application is approved; and 2. Western Power receives a corresponding <i>electricity transfer application</i> to increase contracted capacity at the same <i>connection point</i> pursuant to <i>reference service D5</i> and the application is approved; and 3. All of the <i>eligibility criteria</i> for the <i>reference service</i> at the <i>connection point</i> are met; and 4. The increase and decrease of contracted capacity relates to either CMD or DSOC (not both); and 5. The same <i>reference service</i> is provided at the <i>connection point</i> to each <i>user</i>; and 6. The <i>user</i> has an <i>access contract</i> and the Capacity Allocation Same Connection Point Service is required at a <i>connection point</i> specified in that <i>access contract</i>; and 7. The <i>Western Power Network</i> has the technical capability to give effect to the decrease of contracted capacity; and 8. The service does not include any material modification of the <i>facilities and equipment</i> connected at an existing <i>connection point</i>; and 9. No further augmentation of the <i>Western Power Network</i> is required to facilitate the capacity allocation arrangements; and 10. An operating document setting out the practical, technical and other operational details of the capacity allocation arrangements has been agreed between the <i>user/s</i> at the relevant <i>connection points</i> and Western Power; and 11. The provision of the <i>service</i> does not result in the <i>user/s</i>, Western Power, system management or the market operator being unable to comply with their obligations under the Wholesale Electricity Market Rules; and 12. Each <i>user</i> at the <i>connection point</i> has agreed with Western Power for Western Power to freely provide <i>energy data</i> to each <i>user</i> (and to the <i>market operator</i>) to give effect to the capacity allocation arrangements; and 13. Each <i>user</i> at the <i>connection point</i> enters into a deed with the benefit to Western Power covenanting that they are jointly and severally liable for each other's contractual and other regulatory obligations in respect to the <i>connection point</i>.

Reference Service Name:	Reference Service D4 –Capacity Allocation Same Connection Point (Nominator) (Business) Service
Applicable Reference Tariff:	Any applicable lodgement fees payable in accordance with the <i>Applications and Queuing Policy</i> .
Applicable Standard Access Contract:	“Electricity Transfer Access Contract” published in Appendix A of the <i>access arrangement</i> .
Applicable Service Standard Benchmarks:	The service standard benchmarks (set out in Section 4.2 of the <i>access arrangement</i>) that apply to: <ol style="list-style-type: none"> 1. <i>exit services</i> A7, A8 and A11; 2. <i>entry services</i> B1 and B2; and 3. <i>bi-directional services</i> C5, C6, C7 and C8, (as applicable).

Reference Service Name:	Reference Service D5 –Capacity Allocation Same Connection Point (Nominee) (Business) Service
Reference Service Description:	<p>A service ancillary to:</p> <ul style="list-style-type: none"> • <i>exit services</i> A7, A8 and A11; • <i>entry services</i> B1 and B2; and • <i>bi-directional services</i> C7 and C8, <p>under which a <i>user</i> nominates an increase to its contracted capacity at a <i>connection point</i> under its <i>access contract</i> (expressed as the percentage of contracted capacity (DSOC or CMD) nominated pursuant to <i>reference service</i> D4) for a clearly specified period of time and nominates the corresponding decrease in contracted capacity to the nominator <i>user</i> at the same <i>connection point</i> under its <i>access contract</i>.</p> <p>The allocated contracted capacity is not further transferable or otherwise delegable.</p> <p>At the end of the specified period the contracted capacity under the <i>user's access contract</i> is reinstated.</p>
Eligibility Criteria:	<p><i>Users</i> are eligible to use this <i>service</i> if:</p> <ol style="list-style-type: none"> 1. The <i>user</i> has submitted an <i>electricity transfer application</i> to increase its contracted capacity at one <i>connection point</i> for a clearly specified period and that application is approved; and 2. Western Power receives a corresponding <i>electricity transfer application</i> to decrease contracted capacity at the same <i>connection point</i> pursuant to <i>reference service</i> D4 and that application is approved; and 3. All of the <i>eligibility criteria</i> for the <i>reference service</i> at the <i>connection point</i> are met; and 4. The increase and decrease of contracted capacity relates to either CMD or DSOC (not both); and 5. The same <i>reference service</i> is provided at the <i>connection point</i> to each <i>user</i>; and 6. The <i>user</i> has an <i>access contract</i> and the Capacity Allocation Same Connection Point Services is required at a <i>connection point</i> specified in that <i>access contract</i>; and 7. The <i>Western Power Network</i> has the technical capability to give effect to the increase of contracted capacity; and 8. The service does not include any material modification of the <i>facilities and equipment</i> connected at an existing <i>connection point</i>; and 9. No further augmentation of the <i>Western Power Network</i> is required to facilitate the capacity allocation arrangements; and 10. An operating document setting out the practical, technical and other operational details of the capacity allocation arrangements has been agreed between the <i>user(s)</i> at the relevant <i>connection points</i> and Western Power; and 11. The provision of the <i>service</i> does not result in the user, Western Power, system management or the market operator being unable to comply with their obligations under the Wholesale Electricity Market Rules; and 12. Each user at the <i>connection point</i> has agreed with Western Power for Western Power to freely provide <i>energy data</i> to each <i>user</i> (and to the <i>market operator</i>) to give effect to the capacity allocation arrangements; and 13. Each user at the <i>connection point</i> enters into a deed to the benefit of Western Power covenanting that they are jointly and severally liable for each other's contractual and other regulatory obligations in respect to the <i>connection point</i>.

Reference Service Name:	Reference Service D5 –Capacity Allocation Same Connection Point (Nominee) (Business) Service
Applicable Reference Tariff:	Any applicable lodgement fees payable in accordance with the <i>Applications and Queuing Policy</i> .
Applicable Standard Access Contract:	“Electricity Transfer Access Contract” published in Appendix A of the <i>access arrangement</i> .
Applicable Service Standard Benchmarks:	The service standard benchmarks (set out in Section 4.2 of the <i>access arrangement</i>) that apply to: <ol style="list-style-type: none"> 1. <i>exit services</i> A7, A8 and A11; 2. <i>entry services</i> B1 and B2; and 3. <i>bi-directional services</i> C5, C6, C7 and C8, (as applicable).

Reference Service Name:	Reference Service D6 – Remote Direct Load Control Service
Reference Service Description:	<p>A <i>service</i> ancillary to:</p> <ul style="list-style-type: none"> • <i>exit services</i> A1 to A8 and A12 to A17; and • <i>bi-directional services</i> C1 to C15, <p>to send a command to an activated device for the control of a load at a <i>connection point</i> from a remote locality. The <i>service</i> does not include any site visits by Western Power.</p>
Eligibility Criteria:	<p><i>Users</i> are eligible to use this <i>service</i> if:</p> <ol style="list-style-type: none"> 1. The <i>user</i> is receiving an <i>exit service</i> or <i>bi-directional service</i> at the <i>connection point</i>; and 2. The <i>user</i> has an <i>access contract</i> and the Remote Direct Load Control Service is required at a <i>connection point</i> specified in that <i>access contract</i>; and 3. The <i>user</i> has submitted an <i>electricity transfer application</i> for a remote load control service and that application is approved; and 4. Communication equipment to transmit commands to and messages from the <i>meter</i> and Western Power has been installed; and 5. There is a supply voltage present at the <i>meter</i>; and 6. An operating document setting out the practical, technical and other operational details of the load control service arrangements has been agreed between the <i>user</i> and Western Power; and 7. The <i>user</i> has the <i>consumer’s</i> authority to control the load at the <i>connection point</i>; and 8. A whole current <i>meter</i> (being a <i>meter</i> that does not have a <i>transformer</i>) is installed at the <i>metering point</i>; and 9. The <i>meter</i> relating to the <i>connection point</i> is configured to receive and provide commands for this <i>service</i> from a remote locality; and 10. The <i>consumer’s facilities and equipment</i> are technically capable of receiving the <i>service</i> and comply with the <i>technical rules</i>, the <i>WA Electrical Requirements</i> and AS 3000.
Applicable Reference Tariff:	“RT26” in the applicable <i>Price List</i> published in Appendix F of the <i>access arrangement</i> .
Applicable Standard Access Contract:	“Electricity Transfer Access Contract” published in Appendix A of the <i>access arrangement</i> .
Applicable Service Standard Benchmarks:	<p>The service standard benchmarks (set out in Section 4.2 of the <i>access arrangement</i>) that apply to:</p> <ol style="list-style-type: none"> 1. <i>exit services</i> A1 to A8 and A12 to A17; and 2. <i>bi-directional services</i> C1 to C15, <p>(as applicable).</p>

Reference Service Name:	Reference Service D7 – Remote Load Limitation Service
Reference Service Description:	<p>A service ancillary to:</p> <ul style="list-style-type: none"> • <i>exit services</i> A1 to A8 and A12 to A17; and • <i>bi-directional services</i> C1 to C15, <p>to remotely limit the load at a <i>connection point</i> through a Western Power <i>meter</i>. The <i>service</i> does not include any site visits by Western Power.</p>
Eligibility Criteria:	<p><i>Users</i> are eligible to use this <i>service</i> if:</p> <ol style="list-style-type: none"> 1. The <i>user</i> is receiving an <i>exit service</i> or <i>bi-directional service</i> at the <i>connection point</i>; and 2. The <i>user</i> has an <i>access contract</i> and the Remote Load Limitation Service is required at a <i>connection point</i> specified in that <i>access contract</i>; and 3. The <i>user</i> has submitted an <i>electricity transfer application</i> for a remote load control service and that application is approved; and 4. Communication equipment to transmit commands to and messages from the <i>meter</i> and Western Power has been installed; and 5. There is a supply voltage present at the <i>meter</i>; and 6. An operating document setting out the practical, technical and other operational details of the remote load limitation service arrangements has been agreed between the <i>user</i> and Western Power; and 7. The <i>user</i> has the <i>consumer’s</i> authority to limit the load at the <i>connection point</i>; and 8. A whole current <i>meter</i> (being a <i>meter</i> that does not have a <i>transformer</i>) is installed at the <i>metering point</i>; and 9. The <i>meter</i> relating to the <i>connection point</i> is configured to receive and provide commands for this <i>service</i> from a remote locality; and 10. The <i>consumer’s facilities and equipment</i> are technically capable of receiving the <i>service</i> and comply with the <i>technical rules</i>, the <i>WA Electrical Requirements</i> and AS 3000.
Applicable Reference Tariff:	“RT27” in the applicable <i>Price List</i> published in Appendix F of the <i>access arrangement</i> .
Applicable Standard Access Contract:	“Electricity Transfer Access Contract” published in Appendix A of the <i>access arrangement</i> .
Applicable Service Standard Benchmarks:	<p>The service standard benchmarks (set out in Section 4.2 of the <i>access arrangement</i>) that apply to:</p> <ol style="list-style-type: none"> 1. <i>exit services</i> A1 to A8 and A12 to A17; and 2. <i>bi-directional services</i> C1 to C15, <p>(as applicable).</p>

Reference Service Name:	Reference Service D8 – Remote De-energise Service
Reference Service Description:	<p>A <i>service</i> ancillary to:</p> <ul style="list-style-type: none"> • <i>exit services</i> A1 to A8 and A12 to A17; • <i>entry service</i> B1; and • <i>bi-directional services</i> C1 to C15, <p>to de-energise a <i>meter</i> by removing supply voltage from all outgoing circuits on a non-permanent basis by a command sent to a <i>meter</i> from a remote locality. The <i>service</i> does not include any site visits by Western Power.</p>
Eligibility Criteria:	<p><i>Users</i> are eligible to use this <i>service</i> if:</p> <ol style="list-style-type: none"> 1. The <i>user</i> is receiving an <i>exit service</i>, <i>entry service</i> or <i>bi-directional service</i> at the <i>connection point</i>; and 2. The <i>user</i> has an <i>access contract</i> and the Remote De-energise Service is required at a <i>connection point</i> specified in that <i>access contract</i>; and 3. The <i>user</i> has submitted an <i>electricity transfer application</i> for a remote de-energise service and that application is approved; and 4. Communication equipment to transmit commands to and messages from the <i>meter</i> and Western Power has been installed; and 5. There is a supply voltage present at the <i>meter</i>; and 6. A whole current <i>meter</i> (being a <i>meter</i> that does not have a <i>transformer</i>) is installed at the <i>metering point</i>; and 7. The <i>meter</i> is configured to receive and provide commands for this <i>service</i> from a remote locality; and 8. The <i>consumer’s facilities and equipment</i> comply with the <i>technical rules</i>, the <i>WA Electrical Requirements</i> and AS 3000.
Applicable Reference Tariff:	“RT28” in the applicable <i>Price List</i> published in Appendix F of the <i>access arrangement</i> .
Applicable Standard Access Contract:	“Electricity Transfer Access Contract” published in Appendix A of the <i>access arrangement</i> .
Applicable Service Standard Benchmarks:	As set out in Section 4.6 of the <i>access arrangement</i> .

Reference Service Name:	Reference Service D9 – Remote Re-energise Service
Reference Service Description:	<p>A <i>service</i> ancillary to:</p> <ul style="list-style-type: none"> • <i>exit services</i> A1 to A8 and A12 to A17; • <i>entry service</i> B1; and • <i>bi-directional services</i> C1 to C15, <p>to re-arm a previously de-energised <i>meter</i> by a command sent to a <i>meter</i> from a remote locality. The <i>service</i> does not include any site visits by Western Power.</p>
Eligibility Criteria:	<p><i>Users</i> are eligible to use this <i>service</i> if:</p> <ol style="list-style-type: none"> 1. The <i>meter</i> is de-energised following the completion of a remote de-energise service D8; and 2. The <i>user</i> is receiving an <i>exit service</i>, <i>entry service</i> or <i>bi-directional service</i> at the <i>connection point</i>; and 3. The <i>user</i> has an <i>access contract</i> and the Remote Re-energise Services is required at a <i>connection point</i> specified in that <i>access contract</i>; and 4. The <i>user</i> has submitted an <i>electricity transfer application</i> for a remote re-energise service and that application is approved; and 5. Communication equipment to transmit commands to and messages from the <i>meter</i> and Western Power has been installed; and 6. There is a supply voltage present at the <i>meter</i>; and 7. A whole current <i>meter</i> (being a <i>meter</i> that does not have a <i>transformer</i>) is installed at the <i>metering point</i>; and 8. The <i>meter</i> is configured to receive and provide commands for this <i>service</i> from a remote locality; and 9. The <i>consumer’s facilities and equipment</i> comply with the <i>technical rules</i>, the <i>WA Electrical Requirements</i> and AS 3000.
Applicable Reference Tariff:	“RT29” in the applicable <i>Price List</i> published in Appendix F of the <i>access arrangement</i> .
Applicable Standard Access Contract:	“Electricity Transfer Access Contract” published in Appendix A of the <i>access arrangement</i> .
Applicable Service Standard Benchmarks:	As set out in Section 4.6 of the <i>access arrangement</i> .

Reference Service Name:	Reference Service D10 – Streetlight LED Replacement Service
Reference Service Description:	<p>A <i>service</i> ancillary to:</p> <ul style="list-style-type: none"> • Reference Service A9 – Streetlighting Exit Service <p>to replace an existing streetlight luminaire with one of the LED luminaires specified in the price list.</p>
Eligibility Criteria:	<p><i>Users</i> are eligible to use this <i>service</i> if:</p> <ol style="list-style-type: none"> 1. The <i>user</i> has submitted a service order for an LED replacement in accordance with Western Power’s requirements; and 2. The <i>user</i> is receiving an <i>exit service</i> at the <i>connection point</i>; and 3. The <i>user</i> has an <i>access contract</i> and the Streetlight LED Replacement Service is required at a <i>connection point</i> specified in that <i>access contract</i>.
Applicable Reference Tariff:	“RT30” in the applicable <i>Price List</i> published in Appendix F of the <i>access arrangement</i> .
Applicable Standard Access Contract:	“Electricity Transfer Access Contract” published in Appendix A of the <i>access arrangement</i> .
Applicable Service Standard Benchmarks:	As set out in Section 4.6 of the <i>access arrangement</i> .

Annexure 1: Reference services (metering)

Words or phrases *italicised* in this Annexure have the definitions given in clause 1.1 of Appendix E, in the *access arrangement* or in section 1.3 of the *Code*.

E.1.1 Service descriptions

A description of each *reference service (metering)* provided is set out in Table E.1.1.

Table E.1.1: Reference services (metering)

Reference number	Service name	Service description
M1	Unidirectional, accumulation, bi-monthly, manual	Provision of <i>accumulated energy data</i> from an <i>accumulation meter (uni-directional)</i> or <i>interval meter</i> derived by way of a <i>manual read</i> on a bi-monthly basis.
M2	Unidirectional, accumulation (TOU), bi-monthly, manual	Provision of <i>accumulated energy data</i> for the time bands of the reference tariff for the underlying <i>exit service</i> from an <i>accumulation meter (uni-directional)</i> or <i>interval meter</i> derived by way of a <i>manual read</i> on a bi-monthly basis.
M3	Unidirectional, interval, bi-monthly, manual	Provision of <i>interval energy data</i> from an <i>interval meter (uni-directional)</i> derived by way of a <i>manual read</i> on a bi-monthly basis.
M4	Unidirectional, interval, monthly, manual	Provision of <i>interval energy data</i> from an <i>interval meter (uni-directional)</i> derived by way of a <i>manual read</i> on a monthly basis.
M5	Unidirectional, interval, bi-monthly, remote	Provision of <i>interval energy data</i> from an <i>interval meter (uni-directional)</i> derived via a <i>communications network</i> on a bi-monthly basis.
M6	Unidirectional, interval, monthly, remote	Provision of <i>interval energy data</i> from an <i>interval meter (uni-directional)</i> derived following the collection of the <i>interval energy data</i> via a <i>communications network</i> on a monthly basis.
M7	Unidirectional, interval, daily, remote	Provision of <i>interval energy data</i> from an <i>interval meter (uni-directional)</i> derived following the collection of the <i>interval energy data</i> via a <i>communications network</i> on a daily basis.
M8	Bidirectional, accumulation, bi-monthly, manual	Provision of <i>accumulated energy data</i> from an <i>accumulation meter (bi-directional)</i> derived by way of a <i>manual read</i> on a bi-monthly basis.
M9	Bidirectional, accumulation (TOU), bi-monthly, manual	Provision of <i>accumulated energy data</i> for the time bands of the reference tariff for the underlying <i>bi-directional service</i> from an <i>accumulation meter (bi-directional)</i> derived by way of a <i>manual read</i> on a bi-monthly basis.
M10	Bidirectional, interval, bi-monthly, manual	Provision of <i>interval energy data</i> from an <i>interval meter (bi-directional)</i> derived by way of a <i>manual read</i> on a bi-monthly basis.
M11	Bidirectional, interval, monthly, manual	Provision of <i>interval energy data</i> from an <i>interval meter (bi-directional)</i> derived by way of a <i>manual read</i> on a monthly basis.

Reference number	Service name	Service description
M12	Bidirectional interval, bi-monthly, remote	Provision of <i>interval energy data</i> from an <i>interval meter (bi-directional)</i> derived following the collection of the <i>interval energy data</i> via a <i>communications network</i> on a bi-monthly basis.
M13	Bidirectional, interval, monthly, remote	Provision of <i>interval energy data</i> from an <i>interval meter (bi-directional)</i> derived following the collection of the <i>interval energy data</i> via a <i>communications network</i> on a monthly basis.
M14	Bidirectional, interval, daily, remote	Provision of <i>interval energy data</i> from an <i>interval meter (bi-directional)</i> derived following the collection of the <i>interval energy data</i> via a <i>communications network</i> on a daily basis.
M15	Unmetered supply, accumulation, bi-monthly, manual	Provision of the <i>metering services</i> set out in the <i>Metering Code</i> for a type 7 connection point.
M16	One off manual interval read	Provision upon request of <i>interval energy data</i> collected as a <i>manual read</i> from an <i>accumulation meter</i> .

Metering services M1 to M14 include the following:

- a. upgrade or replacement of the *meter* to align with the requirements of the *Metering Code* and *MSLA* as a result of throughput at the *connection point* changing;

{Note: if the *user* elects to upgrade the *meter* this is a “meter change” and if the *user* elects to reconfigure the *meter* this is a “meter reconfigure”. Additional charges are payable for a “meter change” and a “meter reconfiguration”}
- b. *customer meter* reading (including card read *meter* reading); and
- c. the provision of *standing data* in accordance with the *Metering Code*.

E.1.2 Permissible reference services (metering)

The *permissible reference services (metering)* that are available for each *reference service* A1 to A17, B1 and B2, and C1 to C14 are identified as ticked (✓) columns in Table E.1.2 below.

{Note: The *permissible reference services (metering)* for *reference services* B3 and C15 will be the *permissible reference services (metering)* for the underlying *entry service* or *bi-directional service* (as applicable) upon which *reference services* B3 and C15 are based.}

The cells in table E.1.2 below with an asterisk (*) in addition to a tick (✓) indicate the “transition” *reference service (metering)* that is provided in respect to *reference services* A1 to A17, B1 and B2, and C1 to C14 on 1 July 2019.² The “transition” *reference service (metering)* is consistent with the *standard metering service* provided immediately prior to the *AA4 effective date*.

As explained in E.1.6 the *standard metering service* for the A1 to A4, A12 to A17, C1 to C4 and C9 to C14 *reference services* will vary depending on whether the throughput at the connection point is greater or lower than 50 MWh/a.

² Unless the *user* has entered into an agreement with Western Power prior to the *AA4 effective date* to obtain extended metering services as defined under the *MSLA*. In such cases, the *user* will be allocated the nearest equivalent *reference service (metering)*.

Table E.1.2: Compatibility of *permissible reference services (metering)* with *reference service A1 to A17, B1 and B2, and C1 to C14*

	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13	M14	M15	M16
Exit Services																
A1 - Anytime Energy (Resi) Exit	✓*		✓	✓*	✓	✓	✓									✓
A2 - Anytime Energy (Busi) Exit	✓*		✓	✓*	✓	✓	✓									✓
A3 - TOU Energy (Resi) Exit		✓*	✓	✓*	✓	✓	✓									✓
A4 - TOU Energy (Busi) Exit		✓*	✓	✓*	✓	✓	✓									✓
A5 - HV Demand Exit						✓*	✓									
A6 - LV Demand Exit				✓*	✓	✓	✓									
A7 - HV CMD Exit						✓*	✓									
A8 - LV CMD Exit				✓*	✓	✓	✓									
A9 – Streetlight															✓*	
A10 – Unmetered															✓*	
A11 - Transmission Exit				✓*		✓	✓									
A12 - 3 Part TOU (Resi) Exit		✓*	✓	✓*	✓	✓	✓									
A13 - 3 Part TOU (Busi) Exit		✓*	✓	✓*	✓	✓	✓									
A14 - 3 Part TOU Demand (Resi) Exit		✓*	✓	✓*	✓	✓	✓									
A15 - 3 Part TOU Demand (Busi) Exit		✓*	✓	✓*	✓	✓	✓									
A16 – Multi Part TOU (Resi) Exit		✓*	✓	✓*	✓	✓	✓									
A17 – Multi Part TOU (Busi) Exit		✓*	✓	✓*	✓	✓	✓									
Entry Services																
B1 - Distribution Entry				✓*		✓	✓									
B2 - Transmission Entry						✓*	✓									
Bi-Directional Services																
C1 - Anytime Energy (Resi) Bi-Directional								✓*		✓	✓*	✓	✓	✓		✓
C2 - Anytime Energy (Busi) Bi-Directional								✓*		✓	✓*	✓	✓	✓		✓
C3 - TOU (Resi) Bi-Directional									✓*	✓	✓*	✓	✓	✓		✓
C4 - TOU (Busi) Bi-Directional									✓*	✓	✓*	✓	✓	✓		✓
C5 - HV Metered Demand Bi-Directional													✓*	✓		
C6 - LV Metered Demand Bi-Directional										✓	✓*	✓	✓	✓		
C7 - HV CMD Bi-Directional											✓		✓*	✓		
C8 - LV CMD Bi-Directional										✓	✓*	✓	✓	✓		
C9 - 3 Part TOU (Resi) Bi-Directional									✓*	✓	✓	✓	✓	✓		
C10 - 3 Part TOU (Busi) Bi-Directional									✓*	✓	✓	✓	✓	✓		

	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13	M14	M15	M16
C11 - 3 Part TOU Demand (Resi) Bi-Directional									✓*	✓	✓	✓	✓	✓		
C12 - 3 Part TOU Demand (Busi) Bi-Directional									✓*	✓	✓	✓	✓	✓		
C13 – Multi Part TOU (Resi) Bi-Directional									✓*	✓	✓	✓	✓	✓		
C14 – Multi Part TOU (Busi) Bi-Directional									✓*	✓	✓	✓	✓	✓		

E.1.3 Eligibility Criteria for Reference Service (metering)

The eligibility criteria for each *permissible reference service (metering)* is identified as the rows that are ticked (✓) in Table E.2.1 below.

Each eligibility criterion that is ticked (✓) needs to be met in order to be eligible for the *permissible reference service (metering)*. In some circumstances, this may require the *user* to progress a “meter change” or “meter reconfigure” in accordance with the *MSLA*.

Table E.2.1: Eligibility Criteria Services

	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13	M14	M15	M16
The <i>User</i> receives a compatible <i>Network</i> access service at the <i>connection point</i> .	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
The <i>consumer's facilities and equipment</i> comply with the <i>technical rules</i> , the <i>WA Electrical Requirements</i> and AS 3000.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
An <i>accumulation meter</i> or <i>interval meter</i> is installed at the <i>metering point</i> .	✓	✓						✓	✓							
An <i>interval meter</i> is installed at the <i>metering point</i> .			✓	✓	✓	✓	✓			✓	✓	✓	✓	✓		
The <i>meter</i> is configured to measure and record <i>accumulated energy data</i> : - out of the <i>network</i> for an exit service; or - in to the <i>network</i> for an entry service; or - in to and out of the <i>network</i> for a bi-directional service.	✓	✓						✓	✓							
The <i>meter</i> is configured to measure and record <i>interval energy data</i> : - out of the <i>network</i> for an exit service; or - in to the <i>network</i> for an entry service; or - in to and out of the <i>network</i> for a bi-directional service.			✓	✓	✓	✓	✓			✓	✓	✓	✓	✓		
The <i>connection point</i> is located on the low voltage (415V or less) <i>distribution system</i> .	✓	✓	✓		✓			✓	✓	✓		✓				

	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13	M14	M15	M16
The <i>meter</i> is configured with registers to measure and record <i>accumulated energy data</i> for the time bands for the underlying <i>Network</i> access service.		✓							✓							
The <i>meter</i> is configured with registers to measure and record <i>interval energy data</i> for the underlying <i>Network</i> access service (if applicable).			✓	✓	✓	✓	✓			✓	✓	✓	✓	✓		
The <i>meter</i> is connected to a communications network supported by <i>Western Power</i> .					✓	✓	✓					✓	✓	✓		
The <i>meter</i> is capable of storing <i>interval energy data</i> .																✓
The <i>user</i> receives a <i>reference service (metering)</i> (M1 to M15) in respect to the <i>connection point</i> .																✓

E.1.4 Selection of reference service (metering) for exit service, entry service and bi-directional service.

Each *exit service* (A1 to A17), *entry service* (B1 and B2) and *bi-directional service* (C1 to C14) includes a *reference service (metering)* that is selected by the *user* from the *permissible reference services (metering)* (M1 to M14).

As explained in clause E.1.3, *users* will be allocated to the “transition” *reference service (metering)* that is provided in respect to *reference services* A1 to A17, B1 and B2, and C1 to C14 from 1 July 2019.³

Upon selection of the *reference service (metering)* to be included as a component of the *exit service*, *entry service* or *bi-directional service* the *exit service*, *entry service* or *bi-directional service* will be numbered as a combination of the *exit service* (A1 to A17), *entry service* (B1 and B2) or *exit service* (C1 to C14) number and the *reference service (metering)* (M1 to M14) number.

E.1.5 Availability of Reference Services

Exit services A3 and A4 and *bi-directional services* C3 and C4 are not available for new *metering installations*.

There are no existing *metering installations* for *exit services* A12 to A17, *entry service* B3 and *bi-directional services* C9 to C15.

E.1.6 Status and configuration of metering installation at the AA4 effective date

In Table E.1 below:

³ Unless the *user* has entered into an agreement with Western Power prior to the AA4 effective date to obtain extended metering services as defined under the MSLA. In such cases, the *user* will be allocated the nearest equivalent *reference service (metering)*.

- a. an existing *metering installation* is one at an existing *metering point* immediately before the *AA4 effective date* and continues as an existing *metering installation* until such time as the *meter* forming part of the *metering installation* is upgraded, replaced, changed or reconfigured;
- b. a new *metering installation* is one established at a new *metering point* after the *AA4 effective date*;
- c. an upgraded or replaced *metering installation* is one where the *meter* forming part of the *metering installation* is upgraded or replaced after the *AA4 effective date* but does not include a *metering installation* where the *meter* is changed or reconfigured at the request of the *user*.

For:

- a. an *exit service* or *entry service* the *meter* will be configured to measure the transfer of electricity out of or into (respectively) the *Western Power Network*, but not both; and
- b. a *bi-directional service* the *meter* will be configured to measure the transfer of electricity into and out of the *Western Power Network*.

An *accumulation meter* includes a *meter* with *interval energy data* storage capability which is declared to be an *accumulation meter* under clause 3.2(2) of the *Metering Code*.

For the *reference services* set out in column one of Table E.1 and for the *metering installations* set out in column two, the *standard metering services* are the provision of the *meter* described in the column marked 'Meter' and the provision of the energy data described in the column marked 'Data Service'.

Table E.1: Standard Metering Services

<i>Reference Service</i>	<i>Status of metering installation</i>	<i>Meter</i>	<i>Data Service</i>
A1, A2 C1, C2	Existing, new, upgraded or replaced*	If throughput at the <i>connection point</i> is less than 50MWh/a, an <i>accumulation meter</i>	Bi-monthly provision of <i>accumulated energy data</i>
		If throughput at the <i>connection point</i> is equal to or greater than 50MWh/a, an <i>interval meter</i>	Monthly provision of <i>interval energy data</i> .
A3, A4 C3, C4	Existing, upgraded or replaced*	If throughput at the <i>connection point</i> is less than 50MWh/a, an <i>accumulation meter</i>	Bi-monthly provision of <i>accumulated energy data</i>
		If throughput at the <i>connection point</i> is equal to or greater than 50MWh/a, an <i>interval meter</i>	Monthly provision of <i>interval energy data</i> .
A5, A6, A7, A8, A12, A13, A14, A15, A16, A17 B1, B2 C5, C6, C7, C8, C9, C10, C11, C12, C13, C14	Existing, new, upgraded and replaced*	<i>Interval meter</i>	Monthly provision of <i>interval energy data</i>

<i>Reference Service</i>	<i>Status of metering installation</i>	<i>Meter</i>	<i>Data Service</i>
A9, A10	Existing, new, upgraded and replaced*	The installation of a <i>meter</i> is not practicable due to the nature or location of the <i>exit point</i> and/or <i>consumer's facilities and equipment</i>	Provision of the <i>metering services</i> set out in the <i>Metering Code</i> for a type 7 connection point

* Where a *user* requests a *meter* change or *meter* reconfiguration, the *meter* provision service is an extended metering service (within the meaning of the *MSLA*) and, as Table E.1 only describes *standard metering services*, it is not included. However, the *meter* provided will be the same as a new, upgraded or replaced *meter* set out in Table E.1 for the relevant *reference service*. The provision of the *energy data* described in the column marked 'Data Service' alongside the *meter* provided is then part of the *standard metering services* for that *reference service*.

