

Reference Services

ELECTRICITY NETWORKS CORPORATION ("WESTERN POWER")

ABN 18 540 492 861

{Outline: These *reference services* are included in Western Power's *access arrangement* in accordance with section 5.1 of the Code.}

CONTENTS

1	Introduction	2
2	Reference Services (Exit Services)	2
3	Reference Services (Entry Services)	8
4	Reference Services (Bidirectional Services)	9

1 Introduction

This document describes Western Power's *reference services*. It should be noted that:

- the *standard metering service* is defined in the model service level agreement most recently approved by the Economic Regulation Authority under the *Electricity Industry Metering Code 2005*; and
- the definitions of accumulation meter and interval meter are within the *Electricity Industry Metering Code 2005*.

2 Reference Services (Exit Services)

Western Power offers 11 *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>standard metering service</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 service if:</p> <ol style="list-style-type: none"> The <i>exit point</i> is located at a residential premise or a premise occupied by a voluntary/charitable organisation; A single register accumulation meter is installed at the <i>exit point</i>¹; and The <i>consumer's facilities and equipment</i> comply with the Technical Rules, the WA Electrical Requirements and AS 3000.
Applicable Reference Tariff:	"RT1" in the <i>Price List</i> published in Appendix 5 of the <i>Access Arrangement</i>
Applicable Standard Access Contract:	"Electricity Transfer Access Contract" published in Appendix 4 of the <i>Access Arrangement</i>
Applicable Service Standard Benchmarks:	Refer to Section 3.18 and 3.19 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>standard metering service</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 a commercial premise; 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 considers, as a <i>reasonable and prudent person</i>, that the <i>User's</i> forecast maximum demand will be less than 1,500 kVA. 3. A single register accumulation meter is installed at the <i>exit point</i>¹; and 4. The <i>consumer's facilities and equipment</i> comply with the Technical Rules, the WA Electrical Requirements and AS 3000.
Applicable Reference Tariff:	"RT2" in the <i>Price List</i> published in Appendix 5 of the <i>Access Arrangement</i>
Applicable Standard Access Contract:	"Electricity Transfer Access Contract" published in Appendix 4 of the <i>Access Arrangement</i>
Applicable Service Standard Benchmarks:	Refer to Section 3.18 and 3.19 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>standard metering service</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 a residential premise or a premise occupied by a voluntary/charitable organisation; 2. Either a Smartpower meter or multiple register TOU accumulation meter is installed at the <i>exit point</i>¹; and 3. The <i>consumer's facilities and equipment</i> comply with the Technical Rules, the WA Electrical Requirements and AS 3000.
Applicable Reference Tariff:	"RT3" in the <i>Price List</i> published in Appendix 5 of the <i>Access Arrangement</i>
Applicable Standard Access Contract:	"Electricity Transfer Access Contract" published in Appendix 4 of the <i>Access Arrangement</i>
Applicable Service Standard Benchmarks:	Refer to Section 3.18 and 3.19 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>standard metering service</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 a commercial premise; 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 considers, as a reasonable and prudent person, that the User's forecast maximum demand will be less than 1,500 kVA. 3. A TOU interval meter is installed at the <i>exit point</i>¹; and 4. The consumer's <i>facilities and equipment</i> comply with the Technical Rules, the WA Electrical Requirements and AS 3000.
Applicable Reference Tariff:	"RT4" in the <i>Price List</i> published in Appendix 5 of the <i>Access Arrangement</i>
Applicable Standard Access Contract:	"Electricity Transfer Access Contract" published in Appendix 4 of the <i>Access Arrangement</i>
Applicable Service Standard Benchmarks:	Refer to Section 3.18 and 3.19 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>standard metering service</i> at an <i>exit 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 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 considers, as a reasonable and prudent person, that the User's forecast maximum demand will be less than 1,500 kVA. 2. A TOU interval meter is installed at the <i>exit point</i>¹; and 3. The <i>consumer's facilities and equipment</i> comply with the Technical Rules, the WA Electrical Requirements and AS 3000.
Applicable Reference Tariff:	"RT5" in the <i>Price List</i> published in Appendix 5 of the <i>Access Arrangement</i>
Applicable Standard Access Contract:	"Electricity Transfer Access Contract" published in Appendix 4 of the <i>Access Arrangement</i>
Applicable Service Standard Benchmarks:	Refer to Section 3.18 and 3.19 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>standard metering service</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 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 considers, as a reasonable and prudent person, that the User's forecast maximum demand will be less than 1,500 kVA. 2. A TOU interval meter is installed at the <i>exit point</i>¹; and 3. The consumer's <i>facilities and equipment</i> comply with the Technical Rules, the WA Electrical Requirements and AS 3000.
Applicable Reference Tariff:	"RT6" in the <i>Price List</i> published in Appendix 5 of the <i>Access Arrangement</i>
Applicable Standard Access Contract:	"Electricity Transfer Access Contract" published in Appendix 4 of the <i>Access Arrangement</i>
Applicable Service Standard Benchmarks:	Refer to Section 3.18 and 3.19 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>standard metering service</i> at an <i>exit 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 contracted maximum demand at the <i>exit point</i> is greater than 1,000 kVA; 2. A TOU interval meter is installed at the <i>exit point</i>¹; and 3. The consumer's <i>facilities and equipment</i> comply with the Technical Rules, the WA Electrical Requirements and AS 3000.
Applicable Reference Tariff:	"RT7" in the <i>Price List</i> published in Appendix 5 of the <i>Access Arrangement</i>
Applicable Standard Access Contract:	"Electricity Transfer Access Contract" published in Appendix 4 of the <i>Access Arrangement</i>
Applicable Service Standard Benchmarks:	Refer to Section 3.18 and 3.19 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>standard metering service</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 contracted maximum demand at the <i>exit point</i> is greater than 1,000 kVA; 2. A TOU interval meter is installed at the <i>exit point</i>¹; and 3. The <i>consumer’s facilities and equipment</i> comply with the Technical Rules, the WA Electrical Requirements and AS 3000.
Applicable Reference Tariff:	“RT8” in the <i>Price List</i> published in Appendix 5 of the <i>Access Arrangement</i>
Applicable Standard Access Contract:	“Electricity Transfer Access Contract” published in Appendix 4 of the <i>Access Arrangement</i>
Applicable Service Standard Benchmarks:	Refer to Section 3.18 and 3.19 of the <i>Access Arrangement</i>

Reference Service Name:	Reference Service A9 – Streetlighting Exit Service
Reference Service Description:	An <i>exit service</i> combined with a <i>connection service</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.
Eligibility Criteria:	Users are eligible to use this <i>service</i> if the streetlight is a Western Power streetlight.
Applicable Reference Tariff:	“RT9” in the <i>Price List</i> published in Appendix 5 of the <i>Access Arrangement</i>
Applicable Standard Access Contract:	“Electricity Transfer Access Contract” published in Appendix 4 of the <i>Access Arrangement</i>
Applicable Service Standard Benchmarks:	Refer to Sections 3.18, 3.19 and 3.23 of the <i>Access Arrangement</i>

Reference Service Name:	Reference Service A10 – Un-Metered Supplies Exit Service
Reference Service Description:	An <i>exit service</i> combined with a <i>connection service</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 service if:</p> <ol style="list-style-type: none"> 1. The <i>exit point</i> is located on public land; 2. The <i>maximum load at the exit point</i> is not subject to user or consumer controlled variations in duration of usage; 3. Western Power, as a reasonable and prudent person, forecasts the maximum load 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 consumer is a road or local government authority, then the maximum load at the <i>exit point</i> is less than 4.8 kW single phase; 4. Metering is not practicable due to the nature or location of the <i>exit point</i> and/or consumer's facilities and equipment; and 5. The consumer's facilities and equipment comply with the Technical Rules, the WA Electrical Requirements and AS 3000.
Applicable Reference Tariff:	"RT10" in the <i>Price List</i> published in Appendix 5 of the <i>Access Arrangement</i> The energy used will be estimated from the total connected wattage (name plate rating)
Applicable Standard Access Contract:	"Electricity Transfer Access Contract" published in Appendix 4 of the <i>Access Arrangement</i>
Applicable Service Standard Benchmarks:	Refer to Section 3.18 and 3.19 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>standard metering service</i> at an <i>exit point</i> on the <i>transmission system</i> .
Eligibility Criteria:	<p>Users are eligible to use this service if:</p> <ol style="list-style-type: none"> 1. A TOU interval meter is installed at the <i>exit point</i>¹; and 2. The consumer's facilities and equipment comply with the Technical Rules, the WA Electrical Requirements and AS 3000.
Applicable Reference Tariff:	"TRT1" in the <i>Price List</i> published in Appendix 5 of the <i>Access Arrangement</i>
Applicable Standard Access Contract:	"Electricity Transfer Access Contract" published in Appendix 4 of the <i>Access Arrangement</i>
Applicable Service Standard Benchmarks:	Refer to Section 3.22 of the <i>Access Arrangement</i>

3 Reference Services (Entry Services)

Western Power offers 2 entry services as reference services.

Reference Service Name:	Reference Service B1 – Distribution Entry Service
Reference Service Description:	An entry service combined with a connection service and a standard metering service at an entry point on the distribution system.
Eligibility Criteria:	Users are eligible to use this service if: <ol style="list-style-type: none"> 1. A TOU interval meter is installed at the entry point¹; and 2. The generator's facilities and equipment comply with the Technical Rules, the WA Electrical Requirements and AS 3000.
Applicable Reference Tariff:	"RT11" in the Price List published in Appendix 5 of the Access Arrangement
Applicable Standard Access Contract:	"Electricity Transfer Access Contract" published in Appendix 4 of the Access Arrangement
Applicable Service Standard Benchmarks:	Refer to Section 3.18 and 3.19 of the Access Arrangement

Reference Service Name:	Reference Service B2 – Transmission Entry Service
Reference Service Description:	An entry service combined with a connection service and a standard metering service at an entry point on the transmission system.
Eligibility Criteria:	Users are eligible to use this service if: <ol style="list-style-type: none"> 1. A TOU interval meter is installed at the entry point¹; and 2. The generator's facilities and equipment comply with the Technical Rules, the WA Electrical Requirements and AS 3000.
Applicable Reference Tariff:	"TRT2" in the Price List published in Appendix 5 of the Access Arrangement
Applicable Standard Access Contract:	"Electricity Transfer Access Contract" published in Appendix 4 of the Access Arrangement
Applicable Service Standard Benchmarks:	Refer to Section 3.22 of the Access Arrangement

4 Reference Services (Bidirectional Services)

Western Power offers 1 *bidirectional* service as a *reference service*.

Reference Service Name:	Reference Service C1 – Time of Use (Residential) – Bidirectional Service
Reference Service Description:	A <i>bidirectional</i> service combined with a <i>connection</i> service and a <i>standard metering</i> service at a <i>bidirectional</i> point on the low voltage (415 volts or less) distribution system.
Eligibility Criteria:	<p>Users are eligible to use this service if:</p> <ol style="list-style-type: none"> 1. The <i>bidirectional</i> point is located at a residential premise; 2. The <i>consumer's facilities and equipment</i> include a small scale embedded generation system connected via an inverter system that is rated up to 10 kVA for single phase connections and 30 kVA for three phase connections; 3. The <i>consumer's</i> inverter system must comply with the requirements of AS 4777 and the Technical Rules; 4. An interval meter having capability for import and export channels and five register information collection is installed at the <i>bidirectional</i> point¹; and 5. The <i>consumer's facilities and equipment</i> comply with the Technical Rules, the WA Electrical Requirements and AS 3000.
Applicable Reference Tariff:	"RT12" in the <i>Price List</i> published in Appendix 5 of the <i>Access Arrangement</i>
Applicable Standard Access Contract:	"Electricity Transfer Access Contract" published in Appendix 4 of the <i>Access Arrangement</i>
Applicable Service Standard Benchmarks:	Refer to Section 3.18 and 3.19 of the <i>Access Arrangement</i>

¹ Under clause 14.1(b) of the *Applications and Queuing Policy* if a *connection* point consists of more than one *metering* point, the meters must be of the same type.