

Reference services

For the covered Pilbara network

Document Number: 12616312

| | |
|---------------------------|--|
| Date Created/Last Updated | 1 July 2021 |
| Review Frequency | Prior to the start of each <i>pricing period</i> |
| Next Review Date | 1 July 2024 |

This policy remains in effect, until replaced or updated, notwithstanding expiration of the review date.

DRAFT - PUBLIC CONSULTATION

TABLE OF CONTENTS

1. ABBREVIATIONS AND DEFINED TERMS 4

2. INTERPRETATION 10

3. PURPOSE OF THIS DOCUMENT 10

4. BACKGROUND 10

 4.1 Metering services 11

 4.2 Eligibility criteria 12

5. REFERENCE SERVICES (EXIT SERVICES) 13

6. REFERENCE SERVICES (ENTRY SERVICES) 22

7. REFERENCE SERVICES (BIDIRECTIONAL SERVICES) 24

8. REFERENCE SERVICES (INTERCONNECTION SERVICES) 29

9. REFERENCE SERVICES (AUXILIARY) 30

10. SUPPLEMENTARY SERVICES (METERING) 35

 10.1 Service descriptions 35

 10.2 Permissible supplementary services (metering) 36

 10.3 Eligibility criteria for supplementary services (metering) 37

 10.4 Selection of supplementary service (metering) for exit service, entry service and bidirectional service 38

11. REFERENCES 39

DRAFT - PUBLIC CONSULTATION

1. ABBREVIATIONS AND DEFINED TERMS

The following abbreviations are used in this document and have the meaning provided in the table below.

Table 1: Document Abbreviations

| Abbreviation | Meaning |
|--------------|--|
| AS | Australian Standard |
| kV | kilo Volts, which is 1,000 Volts |
| kVA | kilo Volt Amps, which is 1,000 Volt Amps |
| kW | kilo Watts, which is 1,000 Watts |
| MSLA | Model Service Level Agreement |
| MVA | Mega Volt Amps, which is 1 million Volt Amps |
| MWh | Mega Watt hours, which is 1 million Watt hours |
| NSP | Network Service Provider |
| NWIS | North West Interconnected System, the common name of the interconnected system of networks described in the Act as the “interconnected Pilbara system” |
| NZS | New Zealand Standard |

The following defined terms are used in this document and have the meaning provided in the table below.

Table 2: Document Defined Terms

| Defined term | Meaning |
|----------------------------|---|
| access contract | has the same meaning given to it in the Code. {As at 25 June 2021, the Code defines <i>access contract</i> as having the same meaning as ‘Pilbara access agreement’ does in Part 8A of the Act, and includes an associate arrangement.} |
| Act | the Electricity Industry Act 2004 (WA). |
| applicant | has the same meaning given to it in the Code. {As at 25 June 2021, the Code defines <i>applicant</i> as a person (who may be a user) who seeks access to a <i>light regulation network</i> to establish or modify an <i>access contract</i> , and includes a prospective <i>applicant</i> .} |
| bidirectional point | has the same meaning given to it in the Code. {As at 25 June 2021, the Code defines <i>bidirectional point</i> as a point on a <i>light regulation network</i> which is, or is to be, identified as such (explicitly or by inference) in a contract for <i>services</i> at which, subject to the contract for <i>services</i> , electricity is expected to be, on a regular basis, both transferred into the <i>light regulation network</i> and transferred out of the <i>light regulation network</i> .} |

| Defined term | Meaning |
|--------------------------------|--|
| bidirectional service | a <i>covered service</i> provided at a <i>connection point</i> on a <i>light regulation network</i> that is a <i>bidirectional point</i> . |
| Code | <i>Pilbara Networks Access Code 2021 (WA)</i> . |
| communications network | a metrology telecommunications link provided by way of telecommunication network and other devices and processes supported by Horizon Power with the capability activated to communicate between the <i>meter</i> and Horizon Power for the upload of <i>energy data</i> from a remote locality. |
| connect | has the same meaning given to it in the <i>Code</i> . {As at 25 June 2021, the <i>Code</i> defines <i>connect</i> as to form a physical link to or through a <i>light regulation network</i> .} |
| connection point | has the same meaning given to it in the <i>Code</i> . {As at 25 June 2021, the <i>Code</i> defines <i>connection point</i> as a point on a <i>light regulation network</i> which is, or is to be, identified as such (explicitly or by inference) in a contract for <i>services</i> as being an <i>entry point</i> , <i>exit point</i> , <i>interconnection point</i> or <i>bidirectional point</i> .} |
| connection service | the right to <i>connect facilities and equipment</i> at a <i>connection point</i> . |
| consumer | has the same meaning given to it in the <i>Code</i> . {As at 25 June 2021, the <i>Code</i> defines <i>consumer</i> as a person who consumes electricity.} |
| covered Pilbara network | has the same meaning given to it in section 3 of the <i>Act</i> and for the purposes of this policy includes both a <i>network</i> and a right of the <i>NSP</i> to use a <i>network</i> (to the extent of that right of use). {As at 07 April 2020, the <i>Act</i> defines <i>covered Pilbara network</i> as a covered <i>network</i> that is located wholly or partly in the <i>Pilbara region</i> .} |
| covered service | has the same meaning given to it in the <i>Code</i> . {As at 25 June 2021, the <i>Code</i> defines <i>covered service</i> as a <i>service</i> provided by means of a <i>light regulation network</i> , but does not include an excluded service.} |
| customer | has the same meaning given to it in the <i>Code</i> . {As at 25 June 2021, the <i>Code</i> defines <i>customer</i> as a— (a) <i>user</i> ; or (b) <i>end-use customer</i> in the <i>end-use customer's</i> capacity as <i>indirect customer</i> for <i>covered services</i> .} |
| distribution system | has the meaning given to it in the <i>Code</i> . {As at 25 June 2021, the <i>Code</i> defines <i>distribution system</i> as any apparatus, equipment, plant or buildings used, or to be used, for, or in connection with the transportation of electricity at nominal voltages of less than 66 kV.} |
| energy data | has the same meaning given to it in the <i>Metering Code</i> . {As at 07 December 2012, the <i>Metering Code</i> defines <i>energy data</i> as <i>interval energy data</i> or <i>accumulated energy data</i> .} |

| Defined term | Meaning |
|---|---|
| entry point | <p>has the same meaning given to it in the <i>Code</i>.</p> <p>{As at 25 June 2021, the <i>Code</i> defines <i>entry point</i> as a point on a <i>light regulation network</i> which is, or is to be, identified as such (explicitly or by inference) in a contract for <i>services</i> at which, subject to the contract for <i>services</i>, electricity is more likely to be transferred into the <i>light regulation network</i> than transferred out of the <i>light regulation network</i>.}</p> |
| entry service | <p>a <i>covered service</i> provided at a <i>connection point</i> on a <i>light regulation network</i> that is an <i>entry point</i>.</p> |
| exit point | <p>has the same meaning given to it in the <i>Code</i>.</p> <p>{As at 25 June 2021, the <i>Code</i> defines <i>exit point</i> as a point on a <i>light regulation network</i> which is, or is to be, identified as such (explicitly or by inference) in a contract for <i>services</i> at which, subject to the contract for <i>services</i>, electricity is more likely to be transferred out of the <i>light regulation network</i> than transferred into the <i>light regulation network</i>.}</p> |
| exit service | <p>a <i>covered service</i> provided at a <i>connection point</i> on a <i>light regulation network</i> that is an <i>exit point</i>.</p> |
| facilities and equipment | <p>in relation to a <i>connection point</i>, means the apparatus, equipment, plant and buildings used for or in connection with generating, consuming and transporting electricity at the <i>connection point</i>.</p> |
| generating works | <p>has the same meaning given to it in section 3 of the <i>Act</i>.</p> <p>{As at 07 April 2020, the <i>Act</i> defines <i>generating works</i> as any wires, apparatus, equipment, plant or buildings used, or to be used, for, or in connection with, or to control, the generation of electricity.}</p> |
| generator | <p>has the same meaning given to it in the <i>Metering Code</i>.</p> <p>{As at 07 December 2012, the <i>Metering Code</i> defines <i>generator</i> as a person who holds (or but for an exemption order under section 8 of the <i>Act</i> would be required by section 7 of the <i>Act</i> to hold) a generation licence or integrated regional licence under Part 2 of the <i>Act</i> for either or both of the construction and operation of <i>generating works</i>, and if any enactment has the effect of deeming such a licence to be held by a part of the person, that part.}</p> |
| good electricity industry practice | <p>has the same meaning given to it in the <i>Code</i>.</p> <p>{As at 25 June 2021, the <i>Code</i> defines <i>good electricity industry practice</i> as the exercise of that degree of skill, diligence, prudence and foresight that a skilled and experienced person would reasonably exercise under comparable conditions and circumstances consistent with applicable written laws and statutory instruments and applicable recognised codes, standards (including relevant Australian Standards) and guidelines.}</p> |
| harmonised technical rules | <p>has the same meaning given to it in the <i>Code</i>.</p> <p>{As at 25 June 2021, the <i>Code</i> defines <i>harmonised technical rules</i> as defined in the Pilbara network rules.}</p> |

| Defined term | Meaning |
|---|---|
| Horizon Power Pilbara Network Business | <p>a <i>ringfenced business</i> unit within Horizon Power responsible for the Horizon Power coastal network, including those functions carried out by Horizon Power for the purposes of providing <i>network services</i> in the Horizon Power coastal network.</p> <p>Note: <i>Horizon Power Pilbara Network Business</i> is not a separate legal entity and all contractual commitments will be executed in the name of Horizon Power. Where the term <i>Horizon Power Pilbara Network Business</i> is used, it means Horizon Power, acting in its capacity as the owner and operator of the <i>covered Pilbara network</i>, as distinct from Horizon Power acting in its capacity as a provider of <i>services</i> to other regions or as a provider of non-regulated <i>services</i> such as generation and retail within the NWIS.</p> |
| interconnection point | <p>has the same meaning given to it in the <i>Code</i>.</p> <p>{As at 25 June 2021, the <i>Code</i> defines <i>interconnection point</i> as a point on a <i>network</i> at which an interconnector <i>connects</i> to the <i>network</i>}.}</p> |
| interconnection service | <p>a <i>covered service</i> provided at a <i>connection point</i> on a <i>light regulation network</i> that is an <i>interconnection point</i>.</p> <p>{As at 25 June 2021, the <i>Code</i> defines <i>interconnection point</i> as a point on a <i>network</i> at which an interconnector connects to the <i>network</i>}.}</p> |
| interval energy data | <p>has the same meaning given to it in the <i>Metering Code</i>.</p> <p>{As at 07 December 2012, the <i>Metering Code</i> defines <i>interval energy data</i> as a measurement (including an estimated or substituted measurement) of electricity production or consumption at a <i>metering point</i> which is accumulated for each trading interval or, if applicable under clause 3.16(3), each submultiple of a trading interval.}</p> |
| interval meter | <p>has the same meaning given to it in the <i>Metering Code</i>.</p> <p>{As at 07 December 2012, the <i>Metering Code</i> defines <i>interval meter</i> as a <i>meter</i> that measures <i>interval energy data</i> and records it in a data logger, and excludes a <i>meter</i> with <i>interval energy data</i> storage capability which is deemed to be an accumulation <i>meter</i> under clause 3.2(2).}</p> |
| light regulation network | <p>has the same meaning given to it in the <i>Code</i>.</p> <p>{As at 25 June 2021, the <i>Code</i> defines <i>light regulation network</i> as a <i>covered Pilbara network</i> which is regulated by Part 8A of the <i>Act</i>.}</p> |
| meter | <p>has the same meaning given to it in the <i>Metering Code</i>.</p> <p>{As at 07 December 2012, the <i>Metering Code</i> defines <i>meter</i> as a <i>device</i> which measures and records electricity production or consumption.}</p> |
| Metering Code | <p>the <i>Electricity Industry (Metering) Code 2012 (WA)</i>.</p> |
| metering point | <p>for a <i>connection point</i> without a <i>meter</i>, the <i>connection point</i>; and</p> <p>for a <i>connection point</i> with a <i>meter</i>, the point at which that <i>meter</i> measures electricity production or consumption for the <i>connection point</i>.</p> |

| Defined term | Meaning |
|---|---|
| metering service | <p>has the same meaning given to it in the <i>Metering Code</i>.</p> <p>{As at 07 December 2012, the <i>Metering Code</i> defines <i>metering service</i> as a service in connection with the measurement of electricity production or consumption, including in connection with:</p> <ul style="list-style-type: none"> (a) the provision, installation, operation and maintenance of metering equipment; and (b) the obtaining, provision, storage and processing of <i>data</i>; and (c) <i>services</i> ancillary to the <i>services</i> listed in paragraphs (a) and (b) of this definition.} |
| model service level agreement (MSLA) | <p>the current <i>model service level agreement</i> made in accordance with the <i>Metering Code</i>.</p> |
| network | <p>has the same meaning given to '<i>network infrastructure facilities</i>' in the <i>Act</i>.</p> <p>{As at 07 April 2020, the <i>Act</i> defines '<i>network infrastructure facilities</i>' as—</p> <ul style="list-style-type: none"> (a) electricity infrastructure used, or to be used, for the purpose of transporting electricity from generators of electricity to other electricity infrastructure or to end <i>users</i> of electricity; and (b) includes stand-alone power systems, or storage works, used, or to be used, as an adjunct to electricity infrastructure.} |
| network service provider (NSP) | <p>has the same meaning given to '<i>Pilbara network service provider</i>' in the <i>Act</i>.</p> <p>{As at 07 April 2020, the <i>Act</i> defines '<i>Pilbara network service provider</i>' as a person who—</p> <ul style="list-style-type: none"> (a) owns, controls or operates a <i>Pilbara network</i> or any part of a <i>Pilbara network</i>; or (b) proposes to own, control or operate a <i>Pilbara network</i> or any part of a <i>Pilbara network</i>.} |
| non-residential premises | <p>premises that are not residential premises. Residential premises are:</p> <ul style="list-style-type: none"> (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 Horizon Power determines, as a <i>reasonable and prudent person</i>, that the consumption at the premises is, or will be, less than 100 MWh per annum. |
| permissible supplementary service (metering) | <p>a <i>metering service</i> that is available for a <i>user</i> to select as a component of the <i>reference service</i> from the options set out in clause 9.2.</p> |
| price list | <p>has the same meaning given to it in the <i>Code</i>.</p> <p>{As at 25 June 2021, the <i>Code</i> defines <i>price list</i> as the schedule of <i>tariffs</i> for a <i>light regulation network</i>.}</p> |

| Defined term | Meaning |
|---------------------------------------|---|
| reasonable and prudent person | has the same meaning given to it in the <i>Code</i> . {As at 25 June 2021, the <i>Code</i> defines <i>reasonable and prudent person</i> as a person acting in good faith and in accordance with <i>good electricity industry practice</i> .} |
| reference service | has the same meaning given to it in the <i>Code</i> . {As at 25 June 2021, the <i>Code</i> defines <i>reference service</i> as a <i>covered service</i> designated by a <i>services and pricing policy</i> to be a reference service, and which is provided on the corresponding <i>reference terms and conditions</i> .} |
| reference tariff | has the same meaning given to it in the <i>Code</i> . {As at 25 June 2021, the <i>Code</i> defines <i>reference tariff</i> as the <i>tariff</i> specified in a <i>price list</i> for a <i>reference service</i> .} |
| reference terms and conditions | has the same meaning given to it in the <i>Code</i> . {As at 25 June 2021, the <i>Code</i> defines <i>reference terms and conditions</i> as the terms and conditions specified in the <i>services and pricing policy</i> on which a <i>reference service</i> will be provided at a <i>reference tariff</i> .} |
| services | has the same meaning given to it in the <i>Act</i> , and service has a corresponding meaning. {As at 07 April 2020, the <i>Act</i> defines <i>services</i> as— (a) the transport of electricity, and other <i>services</i> , provided by means of <i>network</i> infrastructure facilities; and (b) <i>services</i> ancillary to those <i>services</i> .} |
| services and pricing policy | has the same meaning given to it in the <i>Code</i> . {As at 25 June 2021, the <i>Code</i> defines <i>services and pricing policy</i> as the policy of an <i>NSP</i> which contains the details referred to in section 40.} |
| small use customer | has the meaning given to ' <i>customer</i> ' in the within the meaning of section 78 of the <i>Act</i> (for the purposes of Part 6 of the <i>Act</i>). {As at 07 April 2020, section 78 of the <i>Act</i> defines ' <i>customer</i> ' as a <i>customer</i> who consumes not more than 160 MWh of electricity per annum.} |
| standard metering service | the default <i>metering service</i> relevant to a <i>reference service</i> as described in clause 9.2. |
| standing data | has the same meaning given to it in the <i>Metering Code</i> . {As at 07 December 2012, the <i>Metering Code</i> defines <i>standing data</i> as the meaning given to it in clause 4.3(1).} |
| sub-transmission system | has the same meaning given to it in the <i>Code</i> . {As at 25 June 2021, the <i>Code</i> defines <i>sub-transmission system</i> as any apparatus, equipment, plant or buildings used, or to be used, for, or in connection with, the transportation of electricity at nominal voltages of 22 kV or higher but less than 66 kV dedicated to a single <i>connection point</i> above 15 MVA.} |

| Defined term | Meaning |
|---|---|
| supplementary service (metering) | the <i>metering service</i> selected from the <i>permissible supplementary service (metering)</i> options by the <i>user</i> as a component of the <i>reference service</i> . |
| tariff | has the same meaning given to it in the <i>Code</i> . {As at 25 June 2021, the <i>Code</i> defines <i>tariff</i> for a <i>covered service</i> , as the criteria that determine the charge that is payable by a <i>user</i> to the <i>NSP</i> .} |
| transmission system | has the same meaning given to it in the <i>Act</i> . {As at 07 April 2020, the <i>Act</i> defines <i>transmission system</i> as any apparatus, equipment, plant or buildings used, or to be used, for, or in connection with, the transportation of electricity at nominal voltages of 66 kV or higher.} |
| user | has the same meaning given to it in the <i>Code</i> . {As at 25 June 2021, the <i>Code</i> defines <i>user</i> as a person, who is a party to a contract for <i>services</i> with an <i>NSP</i> , and in connection with a deemed associate arrangement, includes the <i>NSP</i> 's other business.} |
| WA Electrical Requirements | has the meaning given to it in the <i>Electricity (Licensing) Regulations 1991 (WA)</i> . {As at 1 July 2021, the <i>Electricity (Licensing) Regulations 1991 (WA)</i> defines <i>WA Electrical Requirements</i> as known by that name as issued by the Director.} |

2. INTERPRETATION

In this document a reference to a written law or statutory instrument 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.

A reference to the *price list* includes an amendment or replacement of it that is for the time being applicable.

3. PURPOSE OF THIS DOCUMENT

This document is a component of the *services and pricing policy* that describes the *reference services* that are available to *users* and *customers* that have, or are entering into, an *access contract* with *Horizon Power Pilbara Network Business* for access to the *covered Pilbara network*.

4. BACKGROUND

Section 40(1) of the *Code* requires the *NSP* of a *light regulation network* to have a *services and pricing policy* that sets out, among other things:

- each *reference service* to be offered on the *light regulation network*
- *reference terms and conditions* for each such service in accordance with section 40(2).

Section 40(2) of the *Code* states that the *reference terms and conditions* must comply with section 61 of the *Code* and include at least:

- service characteristics and quality
- the *user's* operational and technical performance obligations
- duration
- curtailment regime
- risk and liability regime
- payment terms
- prudential requirements.

Section 61 of the *Code* states that the *NSP* of a *light regulation network* must ensure that at all times its *services and pricing policy*:

- (a) specifies at least one *reference service* (including *reference terms and conditions*)
- (b) specifies a *reference service* (including *reference terms and conditions*) for each *covered service* that is likely to be sought by (or the benefit of which is likely to be sought by) either or both of:
 - i. a significant number of *customers* and *applicants*; or
 - ii. a substantial proportion of the market for *services* in the *light regulation network*;

and

- (c) to the extent reasonably practicable, specifies *reference services* in such a manner that a *user* or *applicant* is able to acquire by way of one or more *reference services* only those elements of a *covered service* that the *user* or *applicant* wishes to acquire.

4.1 Metering services

In accordance with clause 4.1.1 of Horizon Power's Electricity Integrated Regional Licence, *metering services* will be provided in accordance with the *Metering Code* and the *MSLA*.

The *exit services* A1 to A7, *entry services* B1 to B2, *bidirectional services* C1 to C5 and *interconnection service* D1 each include a *supplementary service (metering)*.

Supplementary services (metering) are described in clause 10.1.

Details of the *supplementary services (metering)* that are available to be selected by the *user* are set out in clause 10.2.

There is an applicable *supplementary service (metering) tariff* payable by *users* as a component of the applicable *reference tariff* for each *reference service*.

The *supplementary service (metering) tariff* recovers the cost of the *standard metering service* for the relevant *reference service*.

The *reference tariffs* are published in the applicable *price list*. A charge is payable by *users* to Horizon Power for *services* received under *access contracts* based on applying these *reference tariffs*.

Users who select an additional *supplementary service (metering)* for the relevant *reference 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 *supplementary service (metering) 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;
- (b) *customer 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*.

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

4.2 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 Horizon Power.

5. REFERENCE SERVICES (EXIT SERVICES)

Horizon Power offers seven *exit services* as *reference services*.

| | |
|---|---|
| Reference service name: | Reference service A1 – Metered demand (low voltage) exit service |
| Reference service name: | <i>Reference service A1 – Metered demand (low voltage) exit service</i> |
| Reference service description: | An exit service combined with a <i>connection service</i> and a <i>supplementary service (metering)</i> at an <i>exit point</i> on the low voltage (up to 1.0 kV) <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 on the low voltage (up to 1.0 kV) <i>distribution system</i>; and 2. The <i>meter</i> is configured to measure the transfer of electricity out of the Horizon Power <i>network</i>; and 3. From 7 January 2022, the <i>user's</i> energy consumption is: <ol style="list-style-type: none"> a. less than 1,200 MWh per annum based on historic metering data; or b. Horizon Power determines, as a <i>reasonable and prudent person</i>, that the <i>user's</i> forecast energy consumption will be less than 1,200 MWh per annum; and 4. The <i>consumer's facilities and equipment</i> comply with the <i>harmonised technical rules</i> and the <i>WA Electrical Requirements</i>; and 5. Each of the following does not apply under an agreement with Horizon Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the charge is different to the applicable <i>reference tariff</i> for this <i>service</i>; or b. The <i>user</i> is to receive delivered electricity at a service standard different to the applicable service standards for this <i>service</i>. |
| Applicable reference tariff: | DT1 |
| Applicable standard access contract: | Electricity Transfer Access Contract |
| Applicable service standards: | <i>Electricity Industry (Network and Reliability of Supply) Code 2005 (WA)</i> , sections 13, 18 and 19 |
| Duration: | The earlier of the Termination Date as set out in the Electricity Transfer Access Contract, or the date on which the <i>access contract</i> is terminated in accordance with section 28 of the Electricity Transfer Access Contract |
| Curtailment regime: | As per section 25 of the Electricity Transfer Access Contract |
| Risk and liability regime: | As per section 22 of the Electricity Transfer Access Contract |
| Payment terms: | As per the Due Date in the Electricity Transfer Access Contract |

| | |
|---------------------------------|---|
| Reference service name: | Reference service A1 – Metered demand (low voltage) exit service |
| Prudential requirements: | As per section 12 of the Electricity Transfer Access Contract |

DRAFT - PUBLIC CONSULTATION

| | |
|---|--|
| Reference service name: | Reference service A2 – Contract Maximum Demand (low voltage) exit service |
| Reference service description: | An <i>exit service</i> combined with a <i>connection service</i> and a <i>supplementary service (metering)</i> at an <i>exit point</i> on the low voltage (up to 1.0 kV) <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 on the low voltage (up to 1.0 kV) <i>distribution system</i>; and 2. The contracted 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. Horizon 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 Horizon Power <i>network</i>; and 4. The <i>consumer's facilities and equipment</i> comply with the <i>harmonised technical rules and the WA Electrical Requirements</i>; and 5. Each of the following does not apply under an agreement with Horizon Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the charge is different to the applicable <i>reference tariff</i> for this service; or b. The <i>user</i> is to receive delivered electricity at a service standard different to the applicable service standards for this service. |
| Applicable reference tariff: | DT2 |
| Applicable standard access contract: | Electricity Transfer Access Contract |
| Applicable service standards: | <i>Electricity Industry (Network and Reliability of Supply) Code 2005 (WA)</i> , sections 13, 18 and 19 |
| Duration: | The earlier of the Termination Date as set out in the Electricity Transfer Access Contract, or the date on which the <i>access contract</i> is terminated in accordance with section 28 of the Electricity Transfer Access Contract |
| Curtailment regime: | As per section 25 of the Electricity Transfer Access Contract |
| Risk and liability regime: | As per section 22 of the Electricity Transfer Access Contract |
| Payment terms: | As per the Due Date in the Electricity Transfer Access Contract |
| Prudential requirements: | As per section 12 of the Electricity Transfer Access Contract |

| | |
|---|--|
| Reference service name: | Reference service A3 – Metered demand (high voltage) exit service |
| Reference service description: | An <i>exit service</i> combined with a <i>connection service</i> and a <i>supplementary service (metering)</i> at an <i>exit point</i> on the high voltage (1.0 kV or higher) <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 on the high voltage (1.0 kV or higher) <i>distribution system</i>; and 2. The <i>meter</i> is configured to measure the transfer of electricity out of the Horizon Power <i>network</i>; and 3. The <i>consumer's facilities and equipment</i> comply with the <i>harmonised technical rules</i> and the <i>WA Electrical Requirements</i>; and 4. Each of the following does not apply under an agreement with Horizon Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the charge is different to the applicable <i>reference tariff</i> for this service; or b. The <i>user</i> is to receive delivered electricity at a service standard different to the applicable service standards for this service. |
| Applicable reference tariff: | DT3 |
| Applicable standard access contract: | Electricity Transfer Access Contract |
| Applicable service standards: | Electricity Industry (Network and Reliability of Supply) Code 2005 (WA), sections 13, 18 and 19 |
| Duration: | The earlier of the Termination Date as set out in the Electricity Transfer Access Contract, or the date on which the <i>access contract</i> is terminated in accordance with section 28 of the Electricity Transfer Access Contract |
| Curtailment regime: | As per section 25 of the Electricity Transfer Access Contract |
| Risk and liability regime: | As per section 22 of the Electricity Transfer Access Contract |
| Payment terms: | As per the Due Date in the Electricity Transfer Access Contract |
| Prudential requirements: | As per section 12 of the Electricity Transfer Access Contract |

| | |
|---|---|
| Reference service name: | Reference service A4 – Contract Maximum Demand (high voltage) exit service |
| Reference service description: | An <i>exit service</i> combined with a <i>connection service</i> and a <i>supplementary service (metering)</i> at an <i>exit point</i> on the high voltage (1.0 kV or higher) <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 on the high voltage (1.0 kV or higher) <i>distribution system</i>; and 2. The contracted maximum demand at the <i>exit point</i> is greater than 1 MVA and less than 15 MVA; and 3. The <i>meter</i> is configured to measure the transfer of electricity out of the Horizon Power <i>network</i>; and 4. The <i>consumer's facilities and equipment</i> comply with the <i>harmonised technical rules</i> and the <i>WA Electrical Requirements</i>; and 5. Each of the following does not apply under an agreement with Horizon Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the charge is different to the applicable <i>reference tariff</i> for this service; or b. The <i>user</i> is to receive delivered electricity at a service standard different to the applicable service standards for this service. |
| Applicable reference tariff: | DT4 |
| Applicable standard access contract: | Electricity Transfer Access Contract |
| Applicable service standards: | Electricity Industry (Network and Reliability of Supply) Code 2005 (WA), sections 13, 18 and 19 |
| Duration: | The earlier of the Termination Date as set out in the Electricity Transfer Access Contract, or the date on which the <i>access contract</i> is terminated in accordance with section 28 of the Electricity Transfer Access Contract |
| Curtailed regime: | As per section 25 of the Electricity Transfer Access Contract |
| Risk and liability regime: | As per section 22 of the Electricity Transfer Access Contract |
| Payment terms: | As per the Due Date in the Electricity Transfer Access Contract |
| Prudential requirements: | As per section 12 of the Electricity Transfer Access Contract |

| | |
|---|---|
| Reference service name: | Reference service A5 – Sub-transmission exit service |
| Reference service description: | An <i>exit service</i> combined with a <i>connection service</i> and a <i>supplementary service (metering)</i> at an <i>exit point</i> on the <i>sub-transmission 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 on the <i>sub-transmission system</i>; and 2. The contracted maximum demand at the <i>exit point</i> is greater than 15 MVA; and 3. The <i>meter</i> is configured to measure the transfer of electricity out of the Horizon Power <i>network</i>; and 4. The <i>consumer's facilities and equipment</i> comply with the <i>harmonised technical rules</i> and the <i>WA Electrical Requirements</i>; and 5. Each of the following does not apply under an agreement with Horizon Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the charge is different to the applicable <i>reference tariff</i> for this service; or b. The <i>user</i> is to receive delivered electricity at a service standard different to the applicable service standards for this service. |
| Applicable reference tariff: | DT5 |
| Applicable standard access contract: | Electricity Transfer Access Contract |
| Applicable service standards: | Electricity Industry (Network and Reliability of Supply) Code 2005 (WA), sections 13, 18 and 19 |
| Duration: | The earlier of the Termination Date as set out in the Electricity Transfer Access Contract, or the date on which the <i>access contract</i> is terminated in accordance with section 28 of the Electricity Transfer Access Contract |
| Curtailment regime: | As per section 25 of the Electricity Transfer Access Contract |
| Risk and liability regime: | As per section 22 of the Electricity Transfer Access Contract |
| Payment terms: | As per the Due Date in the Electricity Transfer Access Contract |
| Prudential requirements: | As per section 12 of the Electricity Transfer Access Contract |

| | |
|---|--|
| Reference service name: | Reference service A6 – Transmission exit service |
| Reference service description: | An <i>exit service</i> combined with a <i>connection service</i> and a <i>supplementary service (metering)</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. The <i>exit point</i> is on the <i>transmission system</i>; and 2. The <i>meter</i> is configured to measure the transfer of electricity out of the Horizon Power <i>network</i>; and 3. The <i>consumer's facilities and equipment</i> comply with the <i>harmonised technical rules</i> and the <i>WA Electrical Requirements</i>; and 4. Each of the following does not apply under an agreement with Horizon Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the charge is different to the applicable <i>reference tariff</i> for this service; or b. The <i>user</i> is to receive delivered electricity at a service standard different to the applicable service standards for this service. |
| Applicable reference tariff: | TT2 |
| Applicable standard access contract: | Electricity Transfer Access Contract |
| Applicable service standards: | Electricity Industry (Network and Reliability of Supply) Code 2005 (WA), sections 13, 18 and 19 |
| Duration: | The earlier of the Termination Date as set out in the Electricity Transfer Access Contract, or the date on which the <i>access contract</i> is terminated in accordance with section 28 of the Electricity Transfer Access Contract |
| Curtailment regime: | As per section 25 of the Electricity Transfer Access Contract |
| Risk and liability regime: | As per section 22 of the Electricity Transfer Access Contract |
| Payment terms: | As per the Due Date in the Electricity Transfer Access Contract |
| Prudential requirements: | As per section 12 of the Electricity Transfer Access Contract |

| | |
|---------------------------------------|---|
| Reference service name: | Reference Service A7 – Streetlighting exit service |
| Reference service description: | <p>An <i>exit service</i> combined with a <i>connection service</i> and a <i>supplementary service (metering)</i> at an <i>exit point</i> on the low voltage (up to 1.0 kV) <i>distribution system</i> for the purpose of streetlighting, plus the service of the provision and maintenance of the streetlighting assets.</p> <p>These streetlighting assets are designed for the environment they will operate in with input from the <i>user’s customer</i> of this service. 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>Horizon Power will maintain the streetlighting assets to ensure that the streetlighting <i>exit service</i> continues to be provided to design levels. Horizon Power will:</p> <ul style="list-style-type: none"> • Inspect the streetlighting poles for structural and electrical integrity consistent with <i>good electricity industry practice</i> and relevant standards. • Replace and reinforce the streetlighting poles consistent with <i>good electricity industry practice</i> and relevant standards. • Repair the streetlighting assets including where damage occurs by third parties. • Provide emergency response to incidents involving the streetlighting assets. • Replace or repair the streetlighting lamps, luminaires, control equipment and supply wiring upon failure, damage or at the end of their serviceable life. • Replace or repair the underground streetlighting supply cables and overhead conductors upon failure, damage or at the end of their serviceable life. • Replace or repair the lamps and luminaires where upon investigation the lumen output no longer meets design levels. • Provide a call centre and online facility to receive streetlighting fault information from the public and the <i>user’s customer</i> of the <i>exit service</i> (typically the relevant local government authority). • Maintain an inventory of the streetlighting assets to which the <i>exit service</i> 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 the <i>user’s customer</i> of the <i>exit service</i> (typically the relevant local government authority) about in-service inventory within 20 working days. |
| Eligibility criteria: | <p><i>Users</i> are eligible to use this service if:</p> <ol style="list-style-type: none"> 1. The <i>exit point</i> is on the low voltage (up to 1.0 kV) <i>distribution system</i>; and 2. The streetlight is owned, operated and maintained by Horizon Power; and 3. Each of the following does not apply under an agreement with Horizon Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the charge is different to the applicable <i>reference tariff</i> for this service; or |

| | |
|---|---|
| Reference service name: | Reference Service A7 – Streetlighting exit service |
| | b. The <i>user</i> is to receive delivered electricity at a service standard different to the applicable service standards for this service. |
| Applicable reference tariff: | DT5 |
| Applicable standard access contract: | Electricity Transfer Access Contract |
| Applicable service standards: | Electricity Industry (Network and Reliability of Supply) Code 2005 (WA), sections 13, 18 and 19 Electricity Distribution Licence Performance Reporting Handbook, page 15 |
| Duration: | The earlier of the Termination Date as set out in the Electricity Transfer Access Contract, or the date on which the <i>access contract</i> is terminated in accordance with section 28 of the Electricity Transfer Access Contract |
| Curtailment regime: | As per section 25 of the Electricity Transfer Access Contract |
| Risk and liability regime: | As per section 22 of the Electricity Transfer Access Contract |
| Payment terms: | As per the Due Date in the Electricity Transfer Access Contract |
| Prudential requirements: | As per section 12 of the Electricity Transfer Access Contract |

DRAFT - PUBLIC

6. REFERENCE SERVICES (ENTRY SERVICES)

Horizon Power offers two *entry services* as *reference services*.

| | |
|---|--|
| Reference service name: | Reference service B1 – Distribution (high voltage) entry service |
| Reference service description: | An <i>entry service</i> combined with a <i>connection service</i> and a <i>supplementary service (metering)</i> at an <i>entry point</i> on the high voltage (1.0 kV or higher) <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>entry point</i> is on the high voltage (1.0 kV or higher) <i>distribution system</i>; and 2. The <i>meter</i> is configured to measure the transfer of electricity into the Horizon Power <i>network</i>; and 3. The <i>generator's facilities and equipment</i> comply with the <i>harmonised technical rules</i> and the <i>WA Electrical Requirements</i>; and 4. Each of the following does not apply under an agreement with Horizon Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the charge is different to the applicable <i>reference tariff</i> for this service; or b. The <i>user</i> is to receive delivered electricity at a service standard different to the applicable service standards for this service. |
| Applicable reference tariff: | Not applicable |
| Applicable standard access contract: | Electricity Transfer Access Contract |
| Applicable service standards: | Electricity Industry (Network and Reliability of Supply) Code 2005 (WA), sections 13, 18 and 19 |
| Duration: | The earlier of the Termination Date as set out in the Electricity Transfer Access Contract, or the date on which the <i>access contract</i> is terminated in accordance with section 28 of the Electricity Transfer Access Contract |
| Curtailement regime: | As per section 25 of the Electricity Transfer Access Contract |
| Risk and liability regime: | As per section 22 of the Electricity Transfer Access Contract |
| Payment terms: | As per the Due Date in the Electricity Transfer Access Contract |
| Prudential requirements: | As per section 12 of the Electricity Transfer Access Contract |

| Reference service name: | Reference Service B2 – Entry service facilitating a distributed generation or other non-network solution |
|---|--|
| Reference service description: | <p>An <i>entry service</i> combined with a <i>connection service</i> and a <i>supplementary service (metering)</i> on the low voltage (up to 1.0 kV) <i>distribution system</i> in circumstances where this service provides for <i>facilities and equipment</i> connected behind a <i>connection point</i> (including distributed <i>generating works</i> and other non-network solutions) that results in Horizon Power's capital-related costs or non-capital costs reducing as a result of the <i>entry point</i> for the distributed <i>generating works</i> or other non-network solution being located in that particular part of the <i>covered Pilbara network</i>.</p> <p>{Note: a 'thin connection' that involves the export of electricity onto the Horizon Power <i>network</i> or the provision of another <i>network</i> support service may be eligible for this service.}</p> |
| Eligibility criteria: | <p>Users are eligible to use this service if:</p> <ol style="list-style-type: none"> 1. The <i>entry point</i> is on the low voltage (up to 1.0 kV) <i>distribution system</i>; and 2. The <i>meter</i> is configured to measure the transfer of electricity into the Horizon Power <i>network</i>; and 3. The <i>generator's facilities and equipment</i> comply with the <i>harmonised technical rules</i> and the <i>WA Electrical Requirements</i>; and 4. The <i>user</i> has submitted an electricity transfer application for this service and that application is approved; and 5. Each of the following does not apply under an agreement with Horizon Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the charge is different to the applicable <i>reference tariff</i> for this service; or b. The <i>user</i> is to receive delivered electricity at a service standard different to the applicable service standards for this service. |
| Applicable reference tariff: | Not applicable |
| Applicable standard access contract: | Electricity Transfer Access Contract |
| Applicable service standards: | Electricity Industry (Network and Reliability of Supply) Code 2005 (WA), sections 13, 18 and 19 |
| Duration: | The earlier of the Termination Date as set out in the Electricity Transfer Access Contract, or the date on which the <i>access contract</i> is terminated in accordance with section 28 of the Electricity Transfer Access Contract |
| Curtailment regime: | As per section 25 of the Electricity Transfer Access Contract |
| Risk and liability regime: | As per section 22 of the Electricity Transfer Access Contract |
| Payment terms: | As per the Due Date in the Electricity Transfer Access Contract |
| Prudential requirements: | As per section 12 of the Electricity Transfer Access Contract |

7. REFERENCE SERVICES (BIDIRECTIONAL SERVICES)

Horizon Power offers five *bidirectional services* as *reference services*.

| Reference service name: | Reference service C1 – Metered demand (low voltage) bidirectional service |
|--------------------------------------|--|
| Reference service description: | A <i>bidirectional service</i> combined with a <i>connection service</i> and a <i>supplementary service (metering)</i> at a <i>bidirectional point</i> on the low voltage (up to 1.0 kV) <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>bidirectional point</i> is on the low voltage (up to 1.0 kV) <i>distribution system</i>; and 2. The <i>meter</i> is configured to measure the transfer of electricity into and out of the Horizon Power <i>network</i>; and 3. The <i>user's</i> energy consumption is: <ol style="list-style-type: none"> a. less than 1,200 MWh per annum based on historic metering data; or b. Horizon Power determines, as a <i>reasonable and prudent person</i>, that the <i>user's</i> forecast energy consumption will be less than 1,200 MWh per annum; and 4. The <i>consumer's</i> inverter system complies with the requirements of AS 4777 and the <i>harmonised technical rules</i>; and 5. The <i>consumer's facilities and equipment</i> comply with the <i>harmonised technical rules</i> and the <i>WA Electrical Requirements</i>; and 6. Each of the following does not apply under an agreement with Horizon Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the charge is different to the applicable <i>reference tariff</i> for this service; or b. The <i>user</i> is to receive delivered electricity at a service standard different to the applicable service standards for this service. |
| Applicable reference tariff: | DT1 |
| Applicable standard access contract: | Electricity Transfer Access Contract |
| Applicable service standards: | Electricity Industry (Network and Reliability of Supply) Code 2005 (WA), sections 13, 18 and 19 |
| Duration: | The earlier of the Termination Date as set out in the Electricity Transfer Access Contract, or the date on which the <i>access contract</i> is terminated in accordance with section 28 of the Electricity Transfer Access Contract |
| Curtailement regime: | As per section 25 of the Electricity Transfer Access Contract |
| Risk and liability regime: | As per section 22 of the Electricity Transfer Access Contract |
| Payment terms: | As per the Due Date in the Electricity Transfer Access Contract |
| Prudential requirements: | As per section 12 of the Electricity Transfer Access Contract |

| Reference service name: | Reference service C2 – Contract Maximum Demand (low voltage) bidirectional service |
|---|---|
| Reference service description: | A <i>bidirectional service</i> combined with a <i>connection service</i> and a <i>supplementary service (metering)</i> at a <i>bidirectional point</i> on the low voltage (up to 1.0 kV) distribution system. |
| Eligibility criteria: | <p>Users are eligible to use this service if:</p> <ol style="list-style-type: none"> 1. The <i>bidirectional point</i> is on the low voltage (up to 1.0 kV) distribution system; and 2. The <i>bidirectional 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 3. The contracted maximum demand at the <i>bidirectional point</i> is: <ol style="list-style-type: none"> a. less than 1,500 kVA based on historic metering data; or b. Horizon 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 4. The <i>meter</i> is configured to measure the transfer of electricity into and out of the Horizon Power <i>network</i>; and 5. The <i>consumer's</i> inverter system complies with the requirements of AS 4777 and the <i>harmonised technical rules</i>, and satisfies a technical assessment by Horizon Power for installations larger than 30 kVA; and 6. The <i>consumer's facilities and equipment</i> comply with the <i>harmonised technical rules</i> and the <i>WA Electrical Requirements</i>; and 7. Each of the following does not apply under an agreement with Horizon Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the charge is different to the applicable <i>reference tariff</i> for this service; or b. The <i>user</i> is to receive delivered electricity at a service standard different to the applicable service standards for this service. |
| Applicable reference tariff: | DT2 |
| Applicable standard access contract: | Electricity Transfer Access Contract |
| Applicable service standards: | Electricity Industry (Network and Reliability of Supply) Code 2005 (WA), sections 13, 18 and 19 |
| Duration: | The earlier of the Termination Date as set out in the Electricity Transfer Access Contract, or the date on which the <i>access contract</i> is terminated in accordance with section 28 of the Electricity Transfer Access Contract |
| Curtailed regime: | As per section 25 of the Electricity Transfer Access Contract |
| Risk and liability regime: | As per section 22 of the Electricity Transfer Access Contract |
| Payment terms: | As per the Due Date in the Electricity Transfer Access Contract |
| Prudential requirements: | As per section 12 of the Electricity Transfer Access Contract |

| | |
|---|---|
| Reference service name: | Reference service C3 – Metered demand (high voltage) bidirectional service |
| Reference service description: | A <i>bidirectional service</i> combined with a <i>connection service</i> and a <i>supplementary service (metering)</i> at a <i>bidirectional point</i> on the high voltage (1.0 kV or higher) distribution system. |
| Eligibility criteria: | <p>Users are eligible to use this service if:</p> <ol style="list-style-type: none"> 1. The <i>bidirectional point</i> is on the high voltage (1.0 kV or higher) distribution system; and 2. The <i>bidirectional 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 3. The <i>meter</i> is configured to measure the transfer of electricity into and out of the Horizon Power <i>network</i>; and 4. The <i>consumer's</i> inverter system complies with the requirements of AS 4777 and the <i>harmonised technical rules</i>, and satisfies a technical assessment by Horizon Power for installations larger than 30 kVA; and 5. The <i>consumer's facilities and equipment</i> comply with the <i>harmonised technical rules</i> and the <i>WA Electrical Requirements</i>; and 6. Each of the following does not apply under an agreement with Horizon Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the charge is different to the applicable <i>reference tariff</i> for this service; or b. The <i>user</i> is to receive delivered electricity at a service standard different to the applicable service standards for this service. |
| Applicable reference tariff: | DT3 |
| Applicable standard access contract: | Electricity Transfer Access Contract |
| Applicable service standards: | Electricity Industry (Network and Reliability of Supply) Code 2005 (WA), sections 13, 18 and 19 |
| Duration: | The earlier of the Termination Date as set out in the Electricity Transfer Access Contract, or the date on which the <i>access contract</i> is terminated in accordance with section 28 of the Electricity Transfer Access Contract |
| Curtailment regime: | As per section 25 of the Electricity Transfer Access Contract |
| Risk and liability regime: | As per section 22 of the Electricity Transfer Access Contract |
| Payment terms: | As per the Due Date in the Electricity Transfer Access Contract |
| Prudential requirements: | As per section 12 of the Electricity Transfer Access Contract |

| | |
|---|--|
| Reference service name: | Reference service C4 – Contract Maximum Demand (high voltage) bidirectional service |
| Reference service description: | A <i>bidirectional service</i> combined with a <i>connection service</i> and a <i>supplementary service (metering)</i> at a <i>bidirectional point</i> on the high voltage (1.0 kV or higher) distribution system. |
| Eligibility criteria: | <p>Users are eligible to use this service if:</p> <ol style="list-style-type: none"> 1. The <i>bidirectional point</i> is on the high voltage (1.0 kV or higher) distribution system; and 2. The <i>bidirectional 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 3. The contracted maximum demand is greater than 1 MVA; and 4. The <i>meter</i> is configured to measure the transfer of electricity into and out of the Horizon Power <i>network</i>; and 5. The <i>consumer's</i> inverter system complies with the requirements of AS 4777 and the <i>harmonised technical rules</i>, and satisfies a technical assessment by Horizon Power for installations larger than 30 kVA; and 6. The <i>consumer's facilities and equipment</i> comply with the <i>harmonised technical rules</i> and the <i>WA Electrical Requirements</i>; and 7. Each of the following does not apply under an agreement with Horizon Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the charge is different to the applicable <i>reference tariff</i> for this service; or b. The <i>user</i> is to receive delivered electricity at a service standard different to the applicable service standards for this service. |
| Applicable reference tariff: | DT4 |
| Applicable standard access contract: | Electricity Transfer Access Contract |
| Applicable service standards: | Electricity Industry (Network and Reliability of Supply) Code 2005 (WA), sections 13, 18 and 19 |
| Duration: | The earlier of the Termination Date as set out in the Electricity Transfer Access Contract, or the date on which the <i>access contract</i> is terminated in accordance with section 28 of the Electricity Transfer Access Contract |
| Curtailement regime: | As per section 25 of the Electricity Transfer Access Contract |
| Risk and liability regime: | As per section 22 of the Electricity Transfer Access Contract |
| Payment terms: | As per the Due Date in the Electricity Transfer Access Contract |
| Prudential requirements: | As per section 12 of the Electricity Transfer Access Contract |

| Reference service name: | Reference service C5 – Bidirectional service facilitating a distributed generation or other non-network solution |
|---|---|
| Reference service description: | <p>A <i>bidirectional service</i> combined with a <i>connection service</i> and a <i>supplementary service (metering)</i> at a <i>bidirectional point</i> on the low voltage (up to 1.0 kV) <i>distribution system</i> in circumstances where this service provides for <i>facilities and equipment</i> connected behind a <i>connection point</i> (including distributed <i>generating works</i> and other non-<i>network</i> solutions) that results in Horizon Power's capital-related costs or non-capital costs reducing as a result of the <i>entry point</i> for the distributed <i>generating works</i> or other non-<i>network</i> solution being located in that particular part of the <i>covered Pilbara network</i>.</p> <p>{Note: a 'thin connection' that involves the export of electricity onto the Horizon Power <i>network</i> or the provision of another <i>network</i> support service may be eligible for this service.}</p> |
| Eligibility criteria: | <p>Users are eligible to use this service if:</p> <ol style="list-style-type: none"> 1. The <i>bidirectional point</i> is on the low voltage (up to 1.0 kV) <i>distribution system</i>; and 2. The <i>meter</i> is configured to measure the transfer of electricity into and out of the Horizon Power <i>network</i>; and 3. The <i>consumer's</i> inverter system complies with the requirements of AS 4777 and the <i>harmonised technical rules</i>; and 4. The <i>consumer's facilities and equipment</i> comply with the <i>harmonised technical rules</i> and the <i>WA Electrical Requirements</i>; and 5. The <i>user</i> has submitted an electricity transfer application for this service and that application is approved; and 6. Each of the following does not apply under an agreement with Horizon Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the charge is different to the applicable <i>reference tariff</i> for this service; or b. The <i>user</i> is to receive delivered electricity at a service standard different to the applicable service standards for this service. |
| Applicable reference tariff: | DT6 |
| Applicable standard access contract: | Electricity Transfer Access Contract |
| Applicable service standards: | Electricity Industry (Network and Reliability of Supply) Code 2005 (WA), sections 13, 18 and 19 |
| Duration: | The earlier of the Termination Date as set out in the Electricity Transfer Access Contract, or the date on which the <i>access contract</i> is terminated in accordance with section 28 of the Electricity Transfer Access Contract |
| Curtailement regime: | As per section 25 of the Electricity Transfer Access Contract |
| Risk and liability regime: | As per section 22 of the Electricity Transfer Access Contract |
| Payment terms: | As per the Due Date in the Electricity Transfer Access Contract |

| | |
|---------------------------------|---|
| Reference service name: | Reference service C5 – Bidirectional service facilitating a distributed generation or other non-network solution |
| Prudential requirements: | As per section 12 of the Electricity Transfer Access Contract |

8. REFERENCE SERVICES (INTERCONNECTION SERVICES)

Horizon Power offers one *interconnection service* as a *reference service*.

| | |
|---|---|
| Reference service name: | Reference Service D1 – Transmission interconnection service |
| Reference service description: | An <i>interconnection service</i> combined with a <i>connection service</i> and a <i>supplementary service (metering)</i> at an <i>interconnection 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. The <i>interconnection point</i> is on the <i>transmission system</i>; and 2. The <i>meter</i> is configured to measure the transfer of electricity into and out of the Horizon Power <i>network</i>; and 3. The third party's <i>transmission network</i> complies with the <i>harmonised technical rules</i>; and 4. Each of the following does not apply under an agreement with Horizon Power: <ol style="list-style-type: none"> a. The <i>tariff</i> that determines the charge is different to the applicable <i>reference tariff</i> for this service; or b. The <i>user</i> is to receive delivered electricity at a service standard different to the applicable service standards for this service. |
| Applicable reference tariff: | TT2 |
| Applicable standard access contract: | Electricity Transfer Access Contract |
| Applicable service standards: | Electricity Industry (Network and Reliability of Supply) Code 2005 (WA), sections 13, 18 and 19 |
| Duration: | The earlier of the Termination Date as set out in the Electricity Transfer Access Contract, or the date on which the <i>access contract</i> is terminated in accordance with section 28 of the Electricity Transfer Access Contract |
| Curtailement regime: | As per section 25 of the Electricity Transfer Access Contract |
| Risk and liability regime: | As per section 22 of the Electricity Transfer Access Contract |
| Payment terms: | As per the Due Date in the Electricity Transfer Access Contract |
| Prudential requirements: | As per section 12 of the Electricity Transfer Access Contract |

9. REFERENCE SERVICES (AUXILIARY)

Horizon Power offers seven *services* at a *connection point* as a *reference service* (auxiliary).

| | |
|---|---|
| Reference service name: | Reference service E1 – Disconnection of supply ahead of abolishment service |
| Reference service description: | A service auxiliary to an <i>exit service</i> , <i>entry service</i> or <i>bidirectional service</i> to disconnect electricity supply, remove the <i>meter</i> and abolish the <i>connection point</i> . |
| Eligibility criteria: | <p>Users are eligible to use this service if:</p> <ol style="list-style-type: none"> 1. The <i>user</i> has submitted an Application and Agreement for <i>Network Services</i> form to disconnect supply to an existing <i>connection point</i> ahead of abolishment in accordance with the provisions of its <i>access contract</i>; and 2. The <i>user</i> has an <i>exit service</i>, <i>entry service</i> or <i>bidirectional service</i> at the <i>connection point</i>; and 3. The <i>user</i> has an <i>access contract</i> and this service is required at a <i>connection point</i> specified in that <i>access contract</i>; and 4. The <i>consumer's facilities and equipment</i> can be safely disconnected in accordance with <i>good electricity industry practice</i>. |
| Applicable reference tariff: | AT1 |
| Applicable standard access contract: | Electricity Transfer Access Contract |
| Applicable service standards: | Code of Conduct for the Supply of Electricity to Small Use Customers 2018 (WA), Part 7 |
| Duration: | As per the <i>access contract</i> for the <i>reference service</i> at the <i>exit point</i> , <i>entry point</i> or <i>bidirectional point</i> immediately prior to the disconnection of supply |
| Curtailement regime: | |
| Risk and liability regime: | |
| Payment terms: | |
| Prudential requirements: | |

| | |
|---|--|
| Reference service name: | Reference service E2 – Disconnection of supply service |
| Reference service description: | <p>A service auxiliary to:</p> <ul style="list-style-type: none"> • <i>exit services A1 and A2; and</i> • <i>bidirectional services C1 and C2,</i> <p>to temporarily disconnect electricity supply.</p> |
| Eligibility criteria: | <p><i>Users are eligible to use this service if:</i></p> <ol style="list-style-type: none"> 1. The <i>user</i> has submitted an Application and Agreement for <i>Network Services</i> form to temporarily disconnect supply to an existing <i>connection point</i> in accordance with the provisions of its <i>access contract</i>; and 2. The <i>user</i> has an <i>exit service A1 or A2 or bidirectional service C1 or C2</i> at the <i>connection point</i>; and 3. The <i>user</i> has an <i>access contract</i> and this service is required at a <i>connection point</i> specified in that <i>access contract</i>; and 4. The <i>consumer's facilities and equipment</i> can be safely disconnected in accordance with <i>good electricity industry practice</i>; or 5. The <i>connection point</i> has been reconnected on an unauthorised basis. |
| Applicable reference tariff: | AT2 |
| Applicable standard access contract: | Electricity Transfer Access Contract |
| Applicable service standards: | Code of Conduct for the Supply of Electricity to Small Use Customers 2018 (WA), Part 7 |
| Duration: | As per the <i>access contract</i> for the <i>reference service</i> at the <i>exit point</i> or <i>bidirectional point</i> immediately prior to the temporary disconnection of supply |
| Curtailement regime: | |
| Risk and liability regime: | |
| Payment terms: | |
| Prudential requirements: | |
| | |

| | |
|---|--|
| Reference service name: | Reference service E3 – Reconnection of supply service |
| Reference service description: | <p>A service auxiliary to:</p> <ul style="list-style-type: none"> • <i>exit services A1 and A2; and</i> • <i>bidirectional services C1 and C2,</i> <p>to reconnect a previously disconnected electricity supply.</p> |
| Eligibility criteria: | <p><i>Users are eligible to use this service if:</i></p> <ol style="list-style-type: none"> 1. The <i>connection point</i> has been temporarily disconnected from the electricity supply following the completion of a Disconnection of Supply Service (E2); and 2. The <i>user</i> has submitted an Application and Agreement for <i>Network Services</i> form to reconnect supply to an existing <i>connection point</i> in accordance with the provisions of its <i>access contract</i>; and 3. The <i>user</i> has an <i>exit service A1 or A2 or bidirectional service C1 or C2</i> at the <i>connection point</i>; and 4. The <i>user</i> has an <i>access contract</i> and this service is required at a <i>connection point</i> specified in that <i>access contract</i>; and 5. The <i>consumer's facilities and equipment</i> can be safely reconnected in accordance with <i>good electricity industry practice</i>; and 6. If supply has been disconnected for more than six months, the <i>user</i> has obtained, from a licensed electrical contractor, an Electrical Safety Certificate to confirm that the <i>consumer's facilities and equipment</i> are safe for reconnection. |
| Applicable reference tariff: | AT3 |
| Applicable standard access contract: | Electricity Transfer Access Contract |
| Applicable service standards: | Code of Conduct for the Supply of Electricity to Small Use Customers 2018 (WA), Part 8 |
| Duration: | As per the <i>access contract</i> for the <i>reference service</i> at the <i>exit point</i> or <i>bidirectional point</i> immediately following the reconnection of supply |
| Curtailement regime: | |
| Risk and liability regime: | |
| Payment terms: | |
| Prudential requirements: | |
| | |

| | |
|---|--|
| Reference service name: | Reference service E4 – Remote disconnection service |
| Reference service description: | <p>A service auxiliary to:</p> <ul style="list-style-type: none"> • <i>exit services A1 and A2; and</i> • <i>bidirectional services C1 and C2,</i> <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 service does not include any site visit by Horizon Power.</p> |
| Eligibility criteria: | <p><i>Users</i> are eligible to use this service if:</p> <ol style="list-style-type: none"> 1. The <i>user</i> is receiving an <i>exit service</i> or <i>bidirectional service</i> at the <i>connection point</i>; and 2. The <i>user</i> has an <i>access contract</i> and this 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 electricity transfer application for this service and that application is approved; and 4. Communication equipment to transmit commands to, and messages from, the <i>meter</i> and Horizon 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 transformer) is installed at the <i>metering point</i>; and 7. The <i>meter</i> is configured to receive and provide commands for this service from a remote locality. |
| Applicable reference tariff: | AT4 |
| Applicable standard access contract: | Electricity Transfer Access Contract |
| Applicable service standards: | Code of Conduct for the Supply of Electricity to Small Use Customers 2018 (WA), Part 7 |
| Duration: | As per the <i>access contract</i> for the <i>reference service</i> at the <i>exit point</i> or <i>bidirectional point</i> immediately prior to the disconnection of the service |
| Curtailment regime: | |
| Risk and liability regime: | |
| Payment terms: | |
| Prudential requirements: | |
| | |

| | |
|---|--|
| Reference service name: | Reference service E5 – Remote disconnection service |
| Reference service description: | <p>A service auxiliary to:</p> <ul style="list-style-type: none"> • <i>exit services A1 and A2; and</i> • <i>bidirectional services C1 and C2,</i> <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 service does not include any site visit by Horizon Power.</p> |
| Eligibility criteria: | <p><i>Users are eligible to use this service if:</i></p> <ol style="list-style-type: none"> 1. The <i>meter</i> is de-energised following the completion of a Remote Disconnection Service (E4); and 2. The <i>user</i> is receiving an <i>exit service</i> or <i>bidirectional service</i> at the <i>connection point</i>; and 3. The <i>user</i> has an <i>access contract</i> and this service is required at a <i>connection point</i> specified in that <i>access contract</i>; and 4. The <i>user</i> has submitted an electricity transfer application for this service and that application is approved; and 5. Communication equipment to transmit commands to, and messages from, the <i>meter</i> and Horizon 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 transformer) is installed at the <i>metering point</i>; and 8. The <i>meter</i> is configured to receive and provide commands for this service from a remote locality; and 9. The <i>consumer's facilities and equipment</i> comply with the <i>harmonised technical rules</i> and the <i>WA Electrical Requirements</i>. |
| Applicable reference tariff: | AT5 |
| Applicable standard access contract: | Electricity Transfer Access Contract |
| Applicable service standards: | Code of Conduct for the Supply of Electricity to Small Use Customers 2018 (WA), Part 8 |
| Duration: | As per the <i>access contract</i> for the <i>reference service</i> at the <i>exit point</i> or <i>bidirectional point</i> immediately following the reconnection of the service |
| Curtailment regime: | |
| Risk and liability regime: | |
| Payment terms: | |
| Prudential requirements: | |

10. SUPPLEMENTARY SERVICES (METERING)

10.1 Service descriptions

Horizon Power offers six *services* at a *connection point* as a *supplementary service (metering)*. A description of each *supplementary service (metering)* provided is set out in the following table.

| Reference number | Service name | Service description |
|------------------|---|---|
| M1 | Unidirectional, interval, monthly, remote | Provision of <i>interval energy data</i> from an <i>interval meter</i> (unidirectional) derived following the collection of the <i>interval energy data</i> via a <i>communications network</i> on a monthly basis. |
| M2 | Unidirectional, interval, daily, remote | Provision of <i>interval energy data</i> from an <i>interval meter</i> (unidirectional) derived following the collection of the <i>interval energy data</i> via a <i>communications network</i> on a daily basis. |
| M3 | Bidirectional, interval, monthly, remote | Provision of <i>interval energy data</i> from an <i>interval meter</i> (bidirectional) derived following the collection of the <i>interval energy data</i> via a <i>communications network</i> on a monthly basis. |
| M4 | Bidirectional, interval, daily, remote | Provision of <i>interval energy data</i> from an <i>interval meter</i> (bidirectional) derived following the collection of the <i>interval energy data</i> via a <i>communications network</i> on a daily basis. |
| M5 | Unmetered supply, accumulation, monthly, manual | Provision of the <i>metering services</i> set out in the <i>Metering Code</i> for a type 7 <i>connection point</i> . |
| M6 | Remote one off <i>meter read</i> | Provision upon request of <i>interval energy data</i> collected from an <i>interval meter</i> via a <i>communications network</i> . |

Metering services M1 to M4 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;
- (b) *customer meter* reading;
- (c) historical interval 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 (WA); and
- (d) the provision of *standing data* in accordance with the *Metering Code*.

10.2 Permissible supplementary services (metering)

The permissible supplementary services (metering) that are available for each *reference service* A1 to A7, B1, C1 to C4 are identified as ticked (✓) columns in the following table.

{Note: The permissible supplementary services (metering) for *reference services* B2 and C5 will be the permissible supplementary services (metering) for the underlying *entry service* or *bidirectional service* (as applicable) upon which *reference services* B2 and C5 are based.}

| | M1 | M2 | M3 | M4 | M5 | M6 |
|---|----|----|----|----|----|----|
| Exit services | | | | | | |
| A1 – Metered demand (low voltage) exit | ✓ | ✓ | | | | ✓ |
| A2 – Contract maximum demand (low voltage) exit | ✓ | ✓ | | | | ✓ |
| A3 – Metered demand (high voltage) exit | ✓ | ✓ | | | | ✓ |
| A4 – Contract maximum demand (high voltage) exit | ✓ | ✓ | | | | ✓ |
| A5 – Sub-transmission exit | ✓ | ✓ | | | | ✓ |
| A6 – Transmission exit | ✓ | ✓ | | | | ✓ |
| A7 – Streetlighting | | | | | ✓ | |
| Entry services | | | | | | |
| B1 – Distribution (high voltage) entry | ✓ | ✓ | | | | ✓ |
| Bidirectional services | | | | | | |
| C1 – Metered demand (low voltage) bidirectional | | | ✓ | ✓ | | ✓ |
| C2 – Contract maximum demand (low voltage) bidirectional | | | ✓ | ✓ | | ✓ |
| C3 – Metered demand (high voltage) bidirectional | | | ✓ | ✓ | | ✓ |
| C4 – Contract maximum demand (high voltage) bidirectional | | | ✓ | ✓ | | ✓ |
| Interconnection services | | | | | | |
| D1 – Third party transmission network interconnection | | | ✓ | ✓ | | ✓ |

10.3 Eligibility criteria for supplementary services (metering)

The eligibility criteria for each *permissible supplementary service (metering)* is identified as the rows that are ticked (✓) in the following table.

Each eligibility criterion that is ticked (✓) needs to be met in order to be eligible for the *permissible supplementary service (metering)*.

| | M1 | M2 | M3 | M4 | M5 | M6 |
|--|----|----|----|----|----|----|
| The user receives a compatible <i>network access service</i> at the <i>connection point</i> | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| The <i>consumer's facilities and equipment</i> comply with the <i>harmonised technical rules</i> and <i>WA Electrical Requirements</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>interval energy data</i> : <ul style="list-style-type: none"> • out of the <i>network</i> for an <i>exit service</i>; or • into the <i>network</i> for an <i>entry service</i>; or • into and out of the <i>network</i> for a <i>bidirectional service</i>; or • into and out of the <i>network</i> for an <i>interconnection service</i>. | ✓ | ✓ | ✓ | ✓ | | ✓ |
| The <i>meter</i> is configured with registers to measure and record <i>interval energy data</i> for the underlying <i>network access service</i> (if applicable) | ✓ | ✓ | ✓ | ✓ | | ✓ |
| The <i>meter</i> is connected to a <i>communications network</i> supported by Horizon Power | ✓ | ✓ | ✓ | ✓ | | ✓ |
| The <i>meter</i> is capable of storing <i>interval energy data</i> | | | | | | ✓ |
| The user receives a <i>supplementary service (metering)</i> (M1 to M4) in respect to the <i>connection point</i> | | | | | | ✓ |

10.4 Selection of supplementary service (metering) for exit service, entry service and bidirectional service

Each *exit service* (A1 to A7), *entry service* (B1 to B2), *bidirectional service* (C1 to C5) and *interconnection service* (D1) includes a *supplementary service (metering)* that is selected by the *user* from the permissible supplementary services (metering) (M1 to M6).

Upon selection of the *supplementary service (metering)* to be included as a component of the *exit service, entry service, bidirectional service or interconnection service*, the *exit service, entry service, bidirectional service or interconnection service* will be numbered as a combination of the *exit service* (A1 to A7), *entry service* (B1 to B2), *exit service* (C1 to C5) or *interconnection service* (D1) number and the *supplementary service (metering)* (M1 to M6) number.

DRAFT - PUBLIC CONSULTATION

11. REFERENCES

The following material is required and should be read in conjunction with this document:

| | |
|---------------------------------------|---|
| LEGAL REFERENCES: | Code of Conduct for the Supply of Electricity to Small Use Customers 2018 (WA) Electricity Industry (Metering) Code 2012 (WA) Electricity Industry (Network and Reliability of Supply) Code 2005 (WA) Pilbara Networks Access Code 2021 (WA) |
| STANDARD & GUIDELINES: | |
| RELATED POLICIES AND OTHER DOCUMENTS: | Electricity Distribution Licence Performance Reporting Handbook |

DRAFT - PUBLIC CONSULTATION