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17 Tariff Structure Statement

17.1 Overview

This Tariff Structure Statement (**TSS**) provides details on the pricing structure by which SA Power Networks recovers the revenue allowed by the Australian Energy Regulator (**AER**), for the provision of Standard Control Services (**SCS**). It has been prepared by SA Power Networks under the requirements of Chapter 6 of the National Electricity Rules (**NER**, or **the Rules**). As noted below, our TSS is in two parts – Part A and Part B¹.

In addition to our SCS, Part A of the TSS includes the <u>indicative</u>-pricing <u>components</u> associated with our Alternative Control Services (**ACS**). Appendix C sets out our proposed-tariff structure for ACS comprising of fee-based and quoted services related to:

- Ancillary network services
- Metering services
- Public Lighting services

ACS are direct control services that are initiated by and/or are directly attributable to specific customers (i.e. where the cost of the service can be assigned to an individual customer), that are subject to direct regulatory oversight. For the 2020-25 regulatory control period (RCP), the AER proposed to classify type 5 and 6 metering services (legacy metering services), various other metering related services, non-standard connection services, network ancillary services and public lighting services as ACS. Further details on ACS are available in Attachment 14 – Alternative control services.

We have prepared our TSS in two parts: Part A, which outlines the compliance of our TSS with the NER; and Part B, which is an explanatory statement that provides the reasoning behind the tariff structures that we have proposed. Table 17A-1 below, provides an outline of the structure of Part A of our TSS for the 2020-25 RCP.

Table 17A-1: Structure of TSS Part A

Section **Purpose** 17.2 Tariff classes and assignment Defines the customer classes for which tariffs are developed. It policies outlines the process of assigning customers to tariff classess and the NER with which we need to comply relating to tariff class assignment including opt-in and opt-out provisions. 17.3 Tariff assignment policies Explains how we will assign each customer to a network tariff, and how any tariff choices available to retailers/customers can be exercised. 17.4 Tariff structures and charging Explains how we recover revenue from our customers and outlines our tariff classes, tariff structures and their charging parameters. parameters 17.5 Approach to setting tariffs An overview of the pricing methodology, incorporating a summary of the compliance with the customer principles and the NER. **Appendices** Α Compliance checklist This appendix provides a checklist that identifies where the TSS rule requirements are met within our submission. В Tariff structures - Standard Provides a summary of our indicative pricing for the **Control Services** 2020-25 RCP for SCS. C Tariff structures - Alternative Provides a summary of our indicative pricing for the **Control Services** 2020-25 RCP for ACS. Glossary Provides a description of the shortened forms used within this document

¹ This follows a suggestion by the AER in its draft decision on our original regulatory proposal for the 2020-25 regulatory control period that our TSS should take the form of a two-document structure.

17.2 Tariff classes and assignment policies

This section of our TSS sets out the tariff classes into which retail customers for direct control services will be divided during the 2020-25 RCP, and the policies and procedures that we will apply for assigning retail customers to these tariff classes.²

17.2.1 Tariff classes

Part of the process of tariff design is to identify different tariff classes in order to consider tariffs that might apply to the customers in each class.

Tariff classes are defined by various attributes such as supply voltage, annual consumption and customer type. We do not differentiate between customers with or without Distributed Energy Resources (**DER**), nor on the type of meter installed. The type of meter does impact on which tariff can be used within the tariff class.

We have retained the SCS tariff classes used in our 2017-20 TSS. They are:

- Residential
- Small business, business customers using less than 160 MWh pa, as per SA legislative definitions
- Large Low Voltage (LV) business, connected to the low voltage network but using more than 160 MWh pa
- High Voltage (HV) business, connected to the 11kV high voltage system
- Major business, customers that require at least 5,000 kVA capacity and are connected to either the 11kV bus at a zone substation or the sub-transmission system (33kV or 66kV)

17.2.2 Assigning customers to tariff classes

In accordance with the principles of in the Rules³ thise AER will make a section sets out determination on the procedure to apply to assigning or re-assigning customers to tariff classes as part of its final decision for the 2020-25 RCP.⁴

These provisions will cover the following aspects:

- Assignment of existing retail customers to tariff classes at the commencement of the 2020-25 RCP (on 1 July 2020)
- Assignment of new retail customers⁵ to a tariff class during the 2020-25 RCP (from July 2020 to June 2025)
- Re-assignment of existing retail customers to another existing or a new tariff class during the 2020-25 RCP (from July 2020 to June 2025)
- Objections to proposed assignments and re-assignments

Tariff class assessments are based on:

- the nature of a customer's usage (i.e. residential or business);
- a small business customer is connected to the LV network and has annual consumption below 160MWh pa.; and

² NER, clauses 6.18.1A(a)(1) and 6.18.1A(a)(2).

³ NER, clause 6.18.4.

⁴ <u>Technically, the policies and procedures for assigning consumers to tariff classes are an element of the distribution determination but are not an element of the TSS. This is because this element of the framework predates the TSS framework. However, for simplicity and convenience for stakeholders, the AER has presented the tariff class policies and procedures within the same document as SA Power Networks' TSS. Ie the policies and procedures are included within this document.</u>

⁵ I.e. new connections to the distribution network

 a large business customer uses more than 160 MWh pa. The nature and extent of the associated connection to the network is considered (the connection voltage, or directly connected to a zone substation).

The AER's decision on the tariff class assignment policies and procedures o inform the AER on this process, SA Power Networks is has set out below how we propose to deal with these aspects of the Rules.

Assignment of existing retail customers to a tariff class at the commencement of the 2020-25 RCP

- 1) SA Power Networks' retail customers will be "assigned" to the tariff class to which SA Power Networks was charging them immediately prior to 1 July 2020 if:
 - a) they were a SA Power Networks' retail customer prior to 1 July 2020; and
 - b) they continue to be a retail customer of SA Power Networks as at 1 July 2020.

Assignment of new retail customers to a tariff class during the 2020-25 RCP

- 2) If, after 1 July 2020, SA Power Networks becomes aware that a person will become a retail customer, then SA Power Networks must determine the tariff class to which the new customer will be assigned.
- 3) In determining the tariff class to which a retail customer or potential retail customer will be assigned, or re-assigned, in accordance with point 2 or 5 of this section, SA Power Networks must take into account one or more of the following factors:
 - a) the nature and extent of the retail customer's usage
 - b) the nature of the retail customer's connection to the network
 - c) whether remotely read interval metering or other similar metering technology has been installed at the retail customer's premises as a result of a regulatory obligation or requirement.
- 4) In addition to the requirements under point 3 above, SA Power Networks, when assigning or reassigning a retail customer to a tariff class, must ensure:
 - a) retail customers with similar connection and usage profiles are treated equally; and
 - b) retail customers who have micro–generation facilities are not treated less favourably than retail customers with similar load profiles without such facilities.

Re-assignment of existing retail customers to another existing or a new tariff class during the next Regulatory Control Period

5) SA Power Networks may re-assign a retail customer to another tariff class if the existing retail customer's load characteristics or connection characteristics (or both) have changed such that it is no longer appropriate for that retail customer to be assigned to the tariff class to which the retail customer is currently assigned, or a retail customer no longer has the same or materially similar load or connection characteristics as other retail customers in the retail customer's existing tariff class. In determining the tariff class to which a retail customer will be re-assigned, SA Power Networks must take into account points 3 and 4 above.

Objections to proposed assignments and re-assignments

- 6) SA Power Networks must notify a customer's retailer in writing of the tariff class to which the retail customer has been assigned or re-assigned, prior to the assignment or re-assignment occurring.
- 7) A notice under point 6 above must include advice informing the customer's retailer that they may request further information from SA Power Networks and that the retail customer may object to the proposed re-assignment. This notice must specifically include:
 - a) a written document describing SA Power Networks' internal procedures for reviewing objections;

- b) that if the objection is not resolved to the satisfaction of the customer's retailer under SA Power Networks' internal review system within a reasonable timeframe, then, to the extent that resolution of such disputes is within the jurisdiction of the Energy and Water Ombudsman of South Australia, or like officer, the customer's retailer is entitled to escalate the matter to such a body; and
- c) that if the objection is not resolved to the satisfaction of the customer's retailer under SA Power Networks' internal review system and the body noted in clause 7b above, then the customer or its retailer is entitled to seek a decision of the AER via the dispute resolution process available under Part 10 of the National Electricity Law (**NEL**).
- 8) If, in response to a notice issued in accordance with point 7 above, SA Power Networks receives a request for further information from a customer's retailer, then it must provide such information within a reasonable timeframe. If SA Power Networks reasonably claims confidentiality over any of the information requested by the customer's retailer, then it is not required to provide that information to the customer's retailer. If the customer's retailer disagrees with such confidentiality claims, he or she may have resort to the dispute resolution procedures referred to in point 7 (as modified for a confidentiality dispute).
- 9) If, in response to a notice issued in accordance with point 7 above, a customer's retailer makes an objection to SA Power Networks about the proposed assignment or re-assignment, SA Power Networks must reconsider the proposed assignment or re-assignment. In doing so SA Power Networks must take into consideration the factors in points 3 and 4 above and notify the customer's retailer in writing of its decision and the reasons for that decision.
- 10) If a customer's retailer's objection to a tariff assignment or re-assignment is upheld by the relevant body noted in points 7b and 7c above, then any adjustment which needs to be made to tariffs will be done by SA Power Networks as part of the next annual review of prices.
- 11) If a customer's retailer objects to SA Power Networks' tariff class assignment SA Power Networks must provide the information set out in point 7 above and adopt and comply with the arrangements set out in points 8, 9 and 10 above in respect of requests for further information by the customer's retailer and resolution of the objection.

17.3 Tariff assignment policies

In this section of the TSS, SA Power Networks describes the process it applies to the assignment of customers to tariffs on 1 July 2020 and during the 2020-25 RCP. Individual tariffs have been grouped within tariff classes in this proposed-TSS. Our existing approach to managing tariff assignment and re-assignment is proposed to continue. Our approach aligns with the AER's requirements. The changes to the tariff assignment policies below are the result of a decision of the AER.

- a) In response to the economic uncertainty resulting from the COVID-19 pandemic, the initial tariff assignment on 1 July 2020 and during the first year of the regulatory control period (2020/21) will differ from the remainder of the 2020-25 RCP, particularly for small customers (residential and small business).
- b) The following small customer tariffs remain open during 2020/21 but are closed to new customers⁶ from 1 July 2021:
 - Residential Single rate (RSR) for type 4 or type 5 meters;
 - Small Business Single rate (BSR) for type 4 or type 5 meters;
 - Small Business 2-Rate (B2R) for type 4 or type 5 meters;
 - Companion OPCL controlled load tariff for BSR and B2R for type 4 or type 5 meters; and
 - Small Business Actual kVA demand transition (SBD) for type 4 meters.
- c) Note that Large Business Actual kVA Demand (BD and HBD) are closed to new customers⁷ from 1 July 2020, as originally proposed in this TSS.

Residential and Small business - Initial Tariff Assignment 2020/21

- d) On 1 July 2020, all existing customers will remain on the tariff they were assigned to as at 30 June 2020 unless:
 - The customer needs to be reassigned to a different tariff class because of their characteristics, e.g. they should be classified as small business, not large LV business. If there is a similar tariff available in the new tariff class, then that tariff will be used. Otherwise, they will be assigned to the default tariff for that tariff class, meter type, and size of customer.
 - The tariff is removed from 1 July 2020, e.g. SLV Agreed Demand (Small business). The retailer may elect an alternate tariff, otherwise SA Power Networks will assign the customer to either the default tariff or the least-cost tariff, as advised to the retailer.
 - The tariff was off peak controlled load (OPCL) paired with a residential tariff using a type 4 meter. In this situation, the tariff assigned will be controlled load time-of-use (CL-ToU) with residential single rate (RSR), unless the Retailer opts-in to either residential time-of-use tariff (RTOU) or residential prosumer tariff (RPRO) for that customer.
 - ——The retailer informs SA Power Networks of the desired tariff assignment for that existing customer prior to 1 July 2020.

e) During 2020/21:

- A new residential or small business customer who connects to the distribution network or an existing customer who initiates an upgrade to their connection (e.g. to connect distributed energy resources (DER)) will be assigned to the default tariff for interval meters for that tariff class. The retailer may request to opt-out the customer of that tariff assignment to legacy type 6 meter tariffs still open. The retailer may request the customer opt-in to new type 4 meter tariffs. The retailer will advise SA Power Networks of such elections.
- Existing customers will remain assigned to their current tariff after receiving a type 4 meter to replace a type 5 or type 6 meter as an end of life meter replacement or for other reasons not

⁶ I.e. anyone not assigned to these tariffs by 30 June 2020

I.e. anyone not assigned to these tariffs by 30 June 2020

initiated by the customer. The retailer may request the customer opt-in to new type 4 meter tariffs. The retailer will advise SA Power Networks of such elections.

Residential and Small business - Choice of Tariff Assignment 2020/21

f) During 2020/21:

- Retailers can request that a customer be reassigned from one tariff to another. This may be a
 transfer from the default to an opt-in, from an opt-in back to the default, or from a closed
 transition tariff to an open tariff.
- A retailer can request one tariff reassignment for a residential and small business customer during 2020/21. This tariff reassignment is in addition to the initial tariff assignment, e.g. the 1 July 2020 tariff assignment (see d) above) or assignment of new connections (see e) above).
- Where there is a change of retailer and/or customer at a national metering identifier (NMI), the existing tariff assignment will continue unless the retailer requests otherwise. The new retailer can request a tariff reassignment independent of any tariff choices made by the previous retailer.

Residential and Small business – Tariff Assignment from 2021/22

g) For 1 July 2021:

- We will retain all opt-in tariff elections to type 4 meter open tariffs from 2020/21.
- We will advise retailers of the network tariff all other existing customers have been assigned to.
 The default tariff for that tariff class, meter type and size of customer will be used in most cases except where a least-cost alternative is known. For example:
 - a residential customer with type 6 metering remains assigned to a residential single rate (RSR), off-peak controlled load associated with that customer is assigned to OPCL
 - o a residential customer with type 4 metering is assigned to residential time of use (RTOU), any controlled load associated with that customer remains assigned to CL-Time of Use (CL-ToU).
 - a small business customer with type 4 or type 5 metering previously on BSR or B2R
 is assigned to business time of use (BTOU)
 - a small business customer with anytime demand exceeding 120 kVA over the last
 12 months is assigned to ToU + Maximum Demand (TOU+MD).
- An exception to 1 July 2021 default tariff assignment will occur where the least cost tariff option for that customer is the existing business actual demand tariff (SBD). Retailers may elect to opt-out of this transitional tariff during the 2020-25 RCP. From 1 July 2021 the business actual demand tariff (SBD) becomes a transition tariff and is closed to new small business customers.

h) From 1 July 2021:

- ——A new customer who connects to the distribution network, or
- an existing customer who upgrades their connection to a type 4 meter for any reason, e.g.:
 - o to connect DER
 - o to provide tariff choice
 - o an end of life meter replacement for a type 5 or type 6 meter

will be assigned to the default tariff for interval meters for that tariff class.

- A retailer can request tariff reassignment for a residential or small business customer. This tariff
 reassignment is in addition to the initial tariff assignment, e.g. the 1 July 2021 tariff assignment (see
 g) above). The retailer requested tariff reassignment will apply for a minimum of 12 months before
 a subsequent reassignment can occur.
- Where there is a change of retailer and/or customer at a national metering identifier (NMI), the
 existing tariff assignment will continue unless the new retailer requests otherwise. The new retailer
 can request a tariff reassignment independent of any tariff choices made by the previous retailer.

Large Business⁸ – Initial Tariff Assignment 2020/21

- i) On 1 July 2020, all existing customers will remain on the tariff they were assigned to as at 30 June 2020 unless:
 - The customer needs to be reassigned to a different tariff class because of their characteristics, e.g. they should be classified as large LV business, not small business. If there is a similar tariff available in the new tariff class, then that tariff will be used. Otherwise, they will be assigned to the default tariff for that tariff class, meter type, and size of customer.
 - The tariff is removed from 1 July 2020, e.g. LV Agreed Demand (Large LV Business) and HV Agreed demand (HV Large Business). The retailer may elect an alternate tariff, otherwise SA Power Networks will assign the customer to either the default tariff or the least-cost tariff, as advised to the retailer.
 - The retailer informs SA Power Networks of the desired tariff assignment for that existing customer prior to 1 July 2020.
 - Note that a large business customer or their agent may prior to 1 July 2020 instruct their retailer of which network tariff they feel best suits their business for 1 July 2020. The retailer shall inform SA Power Networks of this choice.-

j) During 2020/21,

- A new large business customer who connects to the distribution network or an existing small business customer who upgrades their connection will be assigned to the default tariff for interval meters for that tariff class. The retailer may request to opt-out the customer of that tariff assignment to other type 4 meter tariff options still open. The retailer may request the customer opt-in to new type 4 meter tariffs. The retailer will advise SA Power Networks of such elections.
 - Note that a large business customer or their agent may prior to 1 July 2020 instruct their retailer of which network tariff they feel best suits their business for 1 July 2020. The retailer shall inform SA Power Networks of this choice.
- During 2020/21, an existing large business customer with a type 6 meter who receives a type 4 meter for any reason will be assigned to the default tariff for that tariff class, meter type, and size of customer. The retailer may request the customer opt-in to new type 4 meter tariffs. The retailer will advise SA Power Networks of such elections.

Large Business - Choice of Tariff Assignment during 2020/21

k) During 2020/21:

- Retailers can request that a customer be reassigned from one tariff to another. This may be a
 transfer from the default to an opt-in, from an opt-in back to the default, or from a closed
 transition tariff to an open tariff.
 - A retailer can request one tariff reassignment for a large business customer during 2020/21. This tariff reassignment is in addition to the initial tariff assignment e.g. the 1 July 2020 tariff assignment (see i) above).
 - A customer may only be reassigned from Actual Monthly Demand (BD) or Monthly
 Demand to Annual Demand on 1 July 2020 or 1 January 2021.
 - A customer can only be reassigned to Actual Monthly Demand (BD) or Monthly
 Demand from Annual Demand or Agreed Annual Demand on 1 July 2020 or 1
 January 2021.
 - Note that a large business customer or their agent may during 2020/21 instruct their retailer of which network tariff they feel best suits their business. The retailer shall inform SA Power Networks of this choice.
- Where there is a change of retailer and/or customer at a national metering identifier (NMI), the existing tariff assignment will continue unless the new retailer requests otherwise. The new retailer can request a tariff reassignment independent of any tariff choices made by the previous retailer.

Incorporates Large LV Business, HV Business and Major Business tariff classes, broadly >160 MWh

Large Business – Tariff Assignment from 2021/22

l) For 1 July 2021:

- We will retain all opt-in tariff elections to type 4 meter open tariffs from 2020/21.
- We will advise retailers of the least-cost alternative tariff for each customer. Retailers may elect to opt-in to the least cost alternative.

m) From 1 July 2021:

- A new customer who connects to the distribution network, or an existing customer who upgrades their meter from a type 6 meter to a type 4 meter for any reason, e.g.
 - o to connect DER,
 - o to provide tariff choice,
 - o an end of life meter replacement for a type 5 or type 6 meter

will be assigned to the default tariff for interval meters for that tariff class.

- A retailer can request tariff reassignment for a large business customer. The retail requested tariff
 reassignments will apply for a minimum of 12 months before a subsequent reassignment can occur.
 This tariff reassignment is in addition to any initial tariff assignment.
 - A customer may only be reassigned from Actual Monthly Demand (BD) or Monthly
 Demand to Annual Demand on 1 July or 1 January.
 - Note that a large business customer or their agent may instruct their retailer of which tariff they feel best suits their business. The retailer shall inform SA Power Networks of this choice.
- Where there is a change of retailer and/or customer at a national metering identifier (NMI), the
 existing tariff assignment will continue unless the new retailer requests otherwise. The new retailer
 can request a tariff reassignment independent of any tariff choices made by the previous retailer.
- a) We will advise retailers of the network tariff each existing customer has been assigned to from 1 July 2020. The default tariff for that tariff class, meter type and size of customer will be used in most cases. For example:
 - a residential customer with type 6 metering is assigned to a residential single rate (RSR),
 - a residential customer with Off-Peak Controlled Load (OPCL) (hot water) and type 4 metering is assigned to OPCL-Time of Use (ToU),
 - a small business customer with type 4 or type 5 metering is assigned to ToU, and
 - a business customer with anytime demand exceeding 120 kVA over the last 12 months is assigned to ToU+Maximum Demand (MD).
- b)—The exception to default tariff assignment will occur where the least cost tariff option for that customer is the existing business actual demand tariff. From 1 July 2020 the business actual demand tariff becomes a transition tariff and is closed to new customers. Retailers may elect to opt-out of this transitional tariff during the 2020-25 RCP.
- c) During the 2020-25 RCP, retailers can request that a customer be reassigned from one tariff to another. This may be a transfer from the default to an opt-in, from an opt-in back to the default, or from the closed transition tariff to an open tariff. A retailer cannot ask for a customer tariff reassignment more than once in any 12-month period.
- d) Where a new customer connects to the distribution network, SA Power Networks will presume the default tariff will be assigned unless we receive instructions from the retailer.
- e) Where there is a change of retailer and/or a change of customer at a National Metering Identifier (NMI), we will presume that the existing tariff assignment continues unless we receive a tariff reassignment request from the retailer

The process whereby customers of a tariff class are assigned to tariffs follows in Figure 17A-1. In the application of this process, a customer that has a type 6 meter replaced is treated in the same manner as a new <u>connectioneustomer</u>, i.e. the default tariff for a type 4 meter in that tariff class will be used. <u>Figure</u>

17A-1A provides further context on the assignment of new and upgraded customer connections for 1 July 2020.

Figure 17A-1: Assignment of new and upgraded customer connections to tariff classes from 1 July 2021

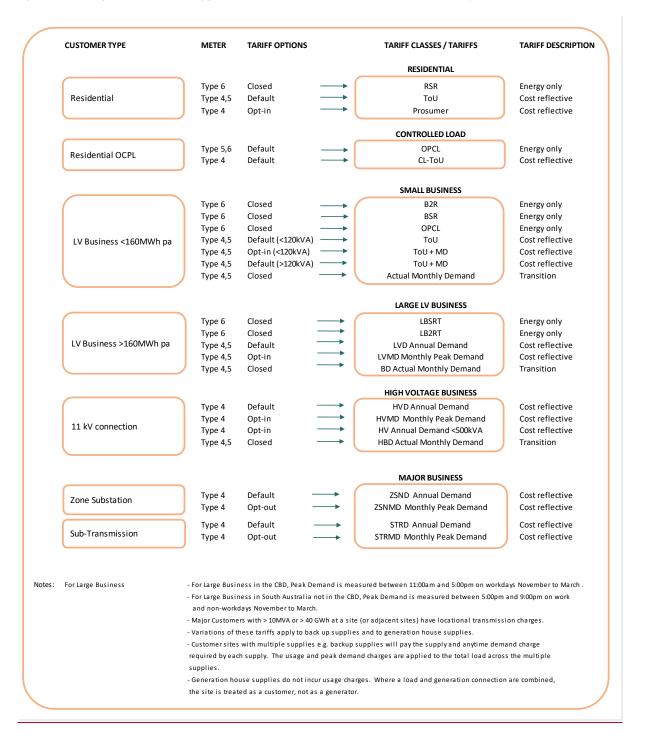
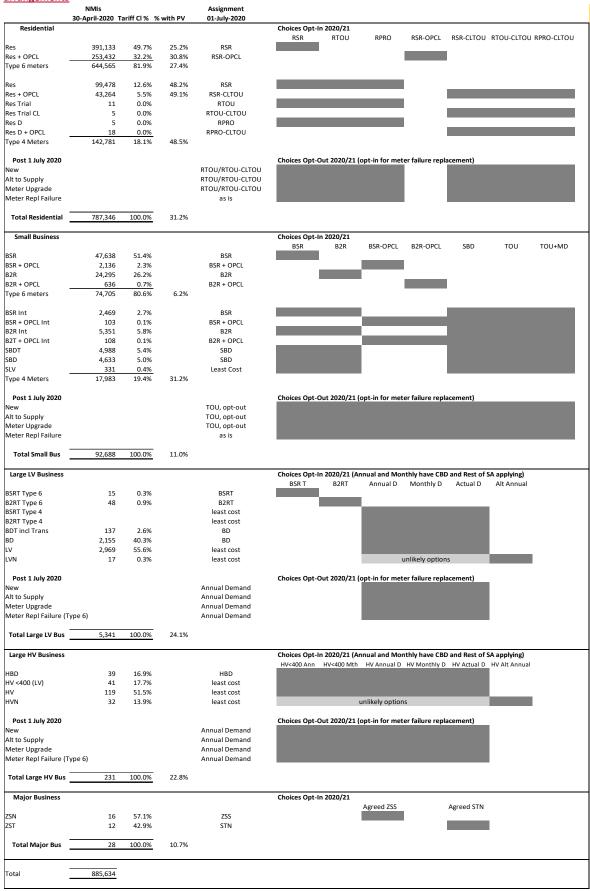


Figure 17A-1A: Assignment of new and upgraded customer connections to tariff classes – 2020/21 only transitional arrangements



17.4 Tariff structures and charging parameters

In this subsection we have set out how we have developed a proposed tariff structure for the 2020-25 RCP for the five tariff classes:

- Residential
- Small business
- Large business low voltage
- Large business high voltage
- Large business major business

By number, the largest customer groups are the residential and small business classes. The residential customers within this group have daily load profiles influenced by the increasing effects of solar. Over 80% of residential and small business customers still use older accumulation meters (type 6), which limits the development and take-up of cost-reflective tariffs. However, the changes in metering that are likely to occur with the introduction of the 'Power of Choice' metering reforms mean that the population of type 4 meters will increase to 50% by the end of the 2020-25 RCP.

There are several factors that we need to respond to in the development of tariffs for the residential and small business classes for the 2020-25 RCP. These factors have been outlined in detail in our TSS Part B explanatory statement. We have responded to these factors and developed a proposed small customer tariff structure which is simple, more cost-reflective and easy to understand. It empowers the customer to make choices if they wish and to change the way they use power when they can.

The tariff reforms are available to all customers. There are limitations in the tariffs available to some customers due to their type 6 metering. These customers can request their retailer to change the meter to a new type 4 meter and access alternative proposed tariff structures set out in this statement if they choose to do so. So, the tariff reforms are not exclusive and are effectively available to all customers through the retail tariff options that retailers are expected to offer in response to these network tariff reformsat their request.

The proposed tariffs set out in this subsection will be applied to the following classes of customer (residential and business) depending on the metering technology available to them.

- Customers with type 6 an accumulation meter, read by SA Power Networks (typically quarterly).
- Customers with type 5 an interval meter, read by SA Power Networks (typically quarterly).
- Customers with type 4 an interval meter, read remotely by the retailer's meter data agent.

Tariffs for use with type 6 meters have been shaded in light orange below. Tariffs shaded in blue represent special customer tariffs for Large LV and HV customers requiring backup or generation supply that involve alternative control services.

A connection (NMI) should not comprise a mix of metering types.

17.4.1 Residential Tariffs

Table 17A-2: Residential tariff structures and charging parameters

Network tariff	Status/ metering	Components	Measurement	Charging parameter
Residential	Closed	Fixed	\$/customer/day	Fixed supply charge per annum
Single rate	Accumulation	Usage	\$/kWh	Single block usage charge
	meter (Type 6)	Controlled load	\$/kWh	Usage-based companion tariff (see below)
Residential	Default	Fixed	\$/customer/day	Fixed supply charge per annum
Time of Use (ToU)	Interval meter, either: remotely read	Usage – Peak	\$/kWh	Peak Pricing for the 14 hours per day not captured in the off-peak/solar sponge windows at 125% of the single rate price
	(Type 4); or - manually read (Type 5)	Usage – Off-peak	\$/kWh	Five-hour off-peak block every day: 1:00am to 6:00am (local time) at 50% of the single rate price
		Usage – Solar Sponge	\$/kWh	Five-hour off-peak block every day: 10:00am to 3:00pm (local time) at 25% of the single rate price
		Controlled load	\$/kWh	Usage-based companion tariff (see below)
Residential	Opt-in	Fixed	\$/customer/day	Fixed supply charge per annum
Prosumer (Supply Charge	Remotely read interval meter (Type 4)	Usage – Peak	\$/kWh	Peak Pricing for the 14 hours per day not captured in the off-peak/solar sponge windows at 7125% of the single rate price*
25%, Usage Charges 37.5 % and peak demand		Usage – Off-peak	\$/kWh	Five-hour off-peak block every day: 1:00am to 6:00am (local time) at <u>3</u> 50% of the single rate price*
37.5%)		Usage – Solar Sponge	\$/kWh	Five-hour off-peak block every day: 10:00am to 3:00pm (local time) at <u>1</u> 25% of the single rate price*
		Demand – Summer	\$/kW/month Nov-March only	Monthly demand charge based on maximum kW demand measured: Highest daily average demand over a four-hour period November to March. Between 17:00-21:00hrs local time
		Controlled load	\$/kWh	Usage-based companion tariff (see below)

^{*}Usage rates for the Residential Prosumer tariff are set at 60% of the equivalent usage rate for the Residential ToU tariff

17.4.2 Off-peak controlled load (OPCL) tariffs

Table 17A-3: Controlled load tariffs-proposed*

Network tariff	metering	Components	Measurement	Charging parameter	
Companion Contro	lled Load (hot wate	r) tariffs			
Controlled load Residential and Small business	Closed** Legacy meters (Type 5, 6)	Flat rate	\$/kWh	Based on usage - time clock is managed by SA Power Networks, and typically involves supply usage between 11:00pm to 7:00am and from 10:00am to 3:00pm. Priced at 50% of the single-rate prices	
Controlled load Residential and Small business	Default Interval meter (Type 4)	Usage – Peak	\$/kWh	Peak Pricing for the 14 13 hours per day not captured in the off-peak/solar sponge windows at 125% of the single rate price	
		Usage – Off-peak	\$/kWh	Based on usage from 11:30pm to 6:30am (Central Standard Time) with randomised start time of at least one hour. At 50% of the single rate price	
		Usage – Solar Sponge	\$/kWh	Based on usage from 9:30pm 30am to 3:30am 30pm (Central Standard Time) with randomised start time of at least one hour. At 25% of the single rate price	

^{*} For Type 4 meters, the time clock is managed through the meter by the retailer and the metering coordinator. For Type 5 meters, the time clock is adjusted manually by SA Power Networks.

** Some customers may currently have a type 6 meter for general supply and type 5 or 6 meter for OPCL. Where the customer's general supply meter is upgraded to type 4, we expect the customer's OPCL type 5 or 6 meter would also need to be replaced and upgraded. In this instance, the customer would be reassigned from the OPCL legacy meter tariff to the default CL-TOU type 4 meter type tariff.

17.4.3 Small business tariffs

Table 17A-4: Small business tariff structures and charging parameters (<160MWh pa)

Network tariff	Status/ metering	Components	Measurement	Charging parameter
Small business	Closed	Fixed	\$/customer/day	Fixed supply charge per annum
Single rate	Accumulation	Usage	\$/kWh	Anytime based on usage
	meter (Type 6)	Controlled load	\$/kWh	Usage-based companion tariff (see above)
Small business	Closed	Fixed	\$/customer/day	Fixed supply charge per annum
two-rate	Two-rate capability	Usage – Peak	\$/kWh	7:00am to 9:00pm five days a week (Monday to Friday) or possibly all days of the week
	Accumulation	Usage – Off-peak	\$/kWh	All times not picked up in peak usage
	meter (Type 6)	Controlled Load	\$/kWh	Usage-based companion tariff (see above)
Small business	Default	Fixed	\$/customer/day	Fixed supply charge per annum
Time of Use (ToU)	<120kVA Interval meter,	Usage – Peak	\$/kWh	5:00pm to 9:00pm local time on all days during November through March
	either: remotely read	Usage - shoulder	\$/kWh	7:00am to 5:00pm workdays November to March, and 7:00am to 9:00pm April to October
	(Type 4); or - manually read (Type 5)	Usage – Off-peak	\$/kWh	All times not picked up in peak or shoulder usage
Small business	Default	Fixed	\$/customer/day	Fixed supply charge per annum
Time of Use (ToU) + Maximum	>120kVA Opt-in <120kVA	Usage – Peak	\$/kWh	5:00pm to 9:00pm local time on all days during November through March, at 80% of TOU price
Demand >120kVA	Interval meter, either: remotely read	Usage - shoulder	\$/kWh	7:00am to 5:00pm workdays November to March, and 7:00am to 9:00pm April to October, at 80% of TOU price
	(Type 4); or - manually read	Usage – Off-peak	\$/kWh	All times not picked up in peak or shoulder usage, at 80% of TOU price
	(Type 5)	Demand- annual	\$/kVA/pa All year	Anytime Maximum demand charge based on highest half-hour demand during the last 12 months.
Small business	Closed	Fixed	\$/customer/day	Fixed supply charge per annum
Actual kVA	Interval meter	Usage	\$/kWh	Anytime based on usage
demand - Transition	(Type 4)	Demand – Peak Actual	\$/kVA/month Nov-March only	Maximum demand charge based on actual monthly maximum kVA demand measured: Over a 30-minute time period; and 16:00 to 21:00hrs local time, workdays, Nov-March (Peak).
		Demand – Shoulder Actual	\$/kVA/month All year	Maximum demand charge based on actual monthly maximum kVA demand measured: Over a 30-minute time period; and 12:00 to 16:00hrs local time, workdays, 12 months (Shoulder)

17.4.4 Large Business Tariffs (LV and HV tariff classes)

Table 17A-5: Large business tariff structures and charging parameters (>160MWh pa)

Table 17A-5. Large b	Status/	0 01	•	
Network tariff	metering	Components	Measurement	Charging parameter
Large LV business	Closed	Fixed	\$/customer/day	Fixed supply charge per annum
Single rate	Accumulation meter (Type 6)	Usage	\$/kWh	Anytime based on usage at 120% of small business pricesingle rate
		Controlled load	\$/kWh	Usage-based companion tariff (see above)
Large LV business	Closed	Fixed	\$/customer/day	Fixed supply charge per annum
two-rate	Two-rate	Usage – Peak	\$/kWh	7:00am to 9:00pm five days a week (Monday to
	capability Accumulation	S		Friday) or possibly all days of the week at 120% of small business pricetwo-rate peak
	meter (Type 6)	Usage – Off-peak	\$/kWh	All times not picked up in peak usage at 120% of
				small business pricetwo-rate off-peak
		Controlled Load	\$/kWh	Usage-based companion tariff (see above)
Large LV business	Default	Fixed	\$/customer/day	Fixed supply charge per annum
Annual demand	Interval meter	Usage – Peak	\$/kWh	7:00am to 9:00pm workdays (Monday to Friday)
	(Type 4)			plus 5:00pm – 9:00pm non-workdays (November
HV Business				to March non-CBD only).
Annual demand		Usage – Off-peak	\$/kWh	At all other times not picked up in peak window
		Demand –	\$/kVA/pa	Demand charge based on the highest daily
HV Business		Peak Annual		average maximum demand on workdays only
Annual <500 kVA				from November through March.
,				 CBD 11:00am-5:00pm workdays only
(Same prices				Non-CBD 5:00pm-9:00pm all days
apply to Central		Demand –	\$/kVA/pa	Anytime demand charged on the highest half-
Business District		Anytime actual		hour demand during the year.
(CBD) and Rest of				
SA; peak demand				
period differs)				
Large LV business	Opt-in	Fixed	\$/customer/day	Fixed supply charge per annum
Large LV business Monthly demand	Interval meter	Usage – Peak	\$/kWh	7:00am to 9:00pm workdays.
Monthly demand	•	Usage – Peak Usage – Off-peak	\$/kWh \$/kWh	7:00am to 9:00pm workdays. At all other times not picked up in peak window
Monthly demand HV Business	Interval meter	Usage – Peak Usage – Off-peak Demand –	\$/kWh \$/kWh \$/kVA/month	7:00am to 9:00pm workdays. At all other times not picked up in peak window Demand charge based on the highest daily
Monthly demand	Interval meter	Usage – Peak Usage – Off-peak	\$/kWh \$/kWh	7:00am to 9:00pm workdays. At all other times not picked up in peak window Demand charge based on the highest daily average maximum demand for the month from
Monthly demand HV Business Monthly demand	Interval meter	Usage – Peak Usage – Off-peak Demand –	\$/kWh \$/kWh \$/kVA/month	7:00am to 9:00pm workdays. At all other times not picked up in peak window Demand charge based on the highest daily average maximum demand for the month from November through March, at 150% of Annual
Monthly demand HV Business Monthly demand (Same prices	Interval meter	Usage – Peak Usage – Off-peak Demand –	\$/kWh \$/kWh \$/kVA/month	7:00am to 9:00pm workdays. At all other times not picked up in peak window Demand charge based on the highest daily average maximum demand for the month from November through March, at 150% of Annual price.
Monthly demand HV Business Monthly demand (Same prices apply to CBD and	Interval meter	Usage – Peak Usage – Off-peak Demand –	\$/kWh \$/kWh \$/kVA/month	7:00am to 9:00pm workdays. At all other times not picked up in peak window Demand charge based on the highest daily average maximum demand for the month from November through March, at 150% of Annual price. CBD 11:00am-5:00pm workdays only
Monthly demand HV Business Monthly demand (Same prices	Interval meter	Usage – Peak Usage – Off-peak Demand – Peak actual	\$/kWh \$/kWh \$/kVA/month Nov-March only	7:00am to 9:00pm workdays. At all other times not picked up in peak window Demand charge based on the highest daily average maximum demand for the month from November through March, at 150% of Annual price. CBD 11:00am-5:00pm workdays only Non-CBD 5:00pm-9:00pm all days
Monthly demand HV Business Monthly demand (Same prices apply to CBD and Rest of SA; peak	Interval meter	Usage – Peak Usage – Off-peak Demand –	\$/kWh \$/kWh \$/kVA/month	7:00am to 9:00pm workdays. At all other times not picked up in peak window Demand charge based on the highest daily average maximum demand for the month from November through March, at 150% of Annual price. CBD 11:00am-5:00pm workdays only
Monthly demand HV Business Monthly demand (Same prices apply to CBD and Rest of SA; peak demand period differs)	Interval meter (Type 4)	Usage – Peak Usage – Off-peak Demand – Peak actual Demand – Anytime actual	\$/kWh \$/kWh \$/kVA/month Nov-March only \$/kVA/pa	7:00am to 9:00pm workdays. At all other times not picked up in peak window Demand charge based on the highest daily average maximum demand for the month from November through March, at 150% of Annual price. CBD 11:00am-5:00pm workdays only Non-CBD 5:00pm-9:00pm all days Anytime demand charged on the highest half- hour demand during the last 12 months.
Monthly demand HV Business Monthly demand (Same prices apply to CBD and Rest of SA; peak demand period differs) Large LV business	Interval meter (Type 4)	Usage – Peak Usage – Off-peak Demand – Peak actual Demand – Anytime actual	\$/kWh \$/kWh \$/kVA/month Nov-March only \$/kVA/pa \$/customer/day	7:00am to 9:00pm workdays. At all other times not picked up in peak window Demand charge based on the highest daily average maximum demand for the month from November through March, at 150% of Annual price. CBD 11:00am-5:00pm workdays only Non-CBD 5:00pm-9:00pm all days Anytime demand charged on the highest half- hour demand during the last 12 months. Fixed supply charge per annum
Monthly demand HV Business Monthly demand (Same prices apply to CBD and Rest of SA; peak demand period differs) Large LV business Actual demand —	Interval meter (Type 4) Closed Interval meter	Usage – Peak Usage – Off-peak Demand – Peak actual Demand – Anytime actual Fixed Usage	\$/kWh \$/kWh \$/kVA/month Nov-March only \$/kVA/pa \$/customer/day \$/kWh	7:00am to 9:00pm workdays. At all other times not picked up in peak window Demand charge based on the highest daily average maximum demand for the month from November through March, at 150% of Annual price. CBD 11:00am-5:00pm workdays only Non-CBD 5:00pm-9:00pm all days Anytime demand charged on the highest half- hour demand during the last 12 months. Fixed supply charge per annum Anytime based on usage
Monthly demand HV Business Monthly demand (Same prices apply to CBD and Rest of SA; peak demand period differs) Large LV business	Interval meter (Type 4)	Usage – Peak Usage – Off-peak Demand – Peak actual Demand – Anytime actual	\$/kWh \$/kWh \$/kVA/month Nov-March only \$/kVA/pa \$/customer/day \$/kWh \$/kVA/month	7:00am to 9:00pm workdays. At all other times not picked up in peak window Demand charge based on the highest daily average maximum demand for the month from November through March, at 150% of Annual price. • CBD 11:00am-5:00pm workdays only • Non-CBD 5:00pm-9:00pm all days Anytime demand charged on the highest half- hour demand during the last 12 months. Fixed supply charge per annum Anytime based on usage Maximum demand charge based on actual
Monthly demand HV Business Monthly demand (Same prices apply to CBD and Rest of SA; peak demand period differs) Large LV business Actual demand —	Interval meter (Type 4) Closed Interval meter	Usage – Peak Usage – Off-peak Demand – Peak actual Demand – Anytime actual Fixed Usage Demand –	\$/kWh \$/kWh \$/kVA/month Nov-March only \$/kVA/pa \$/customer/day \$/kWh	7:00am to 9:00pm workdays. At all other times not picked up in peak window Demand charge based on the highest daily average maximum demand for the month from November through March, at 150% of Annual price. • CBD 11:00am-5:00pm workdays only • Non-CBD 5:00pm-9:00pm all days Anytime demand charged on the highest half- hour demand during the last 12 months. Fixed supply charge per annum Anytime based on usage Maximum demand charge based on actual monthly maximum kVA demand measured:
Monthly demand HV Business Monthly demand (Same prices apply to CBD and Rest of SA; peak demand period differs) Large LV business Actual demand – Transition	Interval meter (Type 4) Closed Interval meter	Usage – Peak Usage – Off-peak Demand – Peak actual Demand – Anytime actual Fixed Usage Demand –	\$/kWh \$/kWh \$/kVA/month Nov-March only \$/kVA/pa \$/customer/day \$/kWh \$/kVA/month	7:00am to 9:00pm workdays. At all other times not picked up in peak window Demand charge based on the highest daily average maximum demand for the month from November through March, at 150% of Annual price. • CBD 11:00am-5:00pm workdays only • Non-CBD 5:00pm-9:00pm all days Anytime demand charged on the highest half- hour demand during the last 12 months. Fixed supply charge per annum Anytime based on usage Maximum demand charge based on actual monthly maximum kVA demand measured: • Over a 30-minute time period; and
Monthly demand HV Business Monthly demand (Same prices apply to CBD and Rest of SA; peak demand period differs) Large LV business Actual demand – Transition HV Business	Interval meter (Type 4) Closed Interval meter	Usage – Peak Usage – Off-peak Demand – Peak actual Demand – Anytime actual Fixed Usage Demand –	\$/kWh \$/kWh \$/kVA/month Nov-March only \$/kVA/pa \$/customer/day \$/kWh \$/kVA/month Nov-March only	7:00am to 9:00pm workdays. At all other times not picked up in peak window Demand charge based on the highest daily average maximum demand for the month from November through March, at 150% of Annual price. CBD 11:00am-5:00pm workdays only Non-CBD 5:00pm-9:00pm all days Anytime demand charged on the highest half- hour demand during the last 12 months. Fixed supply charge per annum Anytime based on usage Maximum demand charge based on actual monthly maximum kVA demand measured: Over a 30-minute time period; and 4:00pm to 9:00pm, workdays, Nov-March.
Monthly demand HV Business Monthly demand (Same prices apply to CBD and Rest of SA; peak demand period differs) Large LV business Actual demand – Transition HV Business Actual demand -	Interval meter (Type 4) Closed Interval meter	Usage – Peak Usage – Off-peak Demand – Peak actual Demand – Anytime actual Fixed Usage Demand – Peak Actual	\$/kWh \$/kWh \$/kVA/month Nov-March only \$/kVA/pa \$/customer/day \$/kWh \$/kVA/month	7:00am to 9:00pm workdays. At all other times not picked up in peak window Demand charge based on the highest daily average maximum demand for the month from November through March, at 150% of Annual price. • CBD 11:00am-5:00pm workdays only • Non-CBD 5:00pm-9:00pm all days Anytime demand charged on the highest half- hour demand during the last 12 months. Fixed supply charge per annum Anytime based on usage Maximum demand charge based on actual monthly maximum kVA demand measured: • Over a 30-minute time period; and
Monthly demand HV Business Monthly demand (Same prices apply to CBD and Rest of SA; peak demand period differs) Large LV business Actual demand – Transition HV Business Actual demand -	Interval meter (Type 4) Closed Interval meter	Usage – Peak Usage – Off-peak Demand – Peak actual Demand – Anytime actual Fixed Usage Demand – Peak Actual	\$/kWh \$/kWh \$/kVA/month Nov-March only \$/kVA/pa \$/customer/day \$/kWh \$/kVA/month Nov-March only	7:00am to 9:00pm workdays. At all other times not picked up in peak window Demand charge based on the highest daily average maximum demand for the month from November through March, at 150% of Annual price. CBD 11:00am-5:00pm workdays only Non-CBD 5:00pm-9:00pm all days Anytime demand charged on the highest half-hour demand during the last 12 months. Fixed supply charge per annum Anytime based on usage Maximum demand charge based on actual monthly maximum kVA demand measured: Over a 30-minute time period; and 4:00pm to 9:00pm, workdays, Nov-March. Maximum demand charge based on actual
Monthly demand HV Business Monthly demand (Same prices apply to CBD and Rest of SA; peak demand period differs) Large LV business Actual demand – Transition HV Business Actual demand -	Interval meter (Type 4) Closed Interval meter	Usage – Peak Usage – Off-peak Demand – Peak actual Demand – Anytime actual Fixed Usage Demand – Peak Actual	\$/kWh \$/kWh \$/kVA/month Nov-March only \$/kVA/pa \$/customer/day \$/kWh \$/kVA/month Nov-March only	7:00am to 9:00pm workdays. At all other times not picked up in peak window Demand charge based on the highest daily average maximum demand for the month from November through March, at 150% of Annual price. CBD 11:00am-5:00pm workdays only Non-CBD 5:00pm-9:00pm all days Anytime demand charged on the highest half-hour demand during the last 12 months. Fixed supply charge per annum Anytime based on usage Maximum demand charge based on actual monthly maximum kVA demand measured: Over a 30-minute time period; and 4:00pm to 9:00pm, workdays, Nov-March. Maximum demand charge based on actual monthly maximum kVA demand measured:
Monthly demand HV Business Monthly demand (Same prices apply to CBD and Rest of SA; peak demand period differs) Large LV business Actual demand – Transition HV Business Actual demand -	Interval meter (Type 4) Closed Interval meter	Usage – Peak Usage – Off-peak Demand – Peak actual Demand – Anytime actual Fixed Usage Demand – Peak Actual	\$/kWh \$/kWh \$/kVA/month Nov-March only \$/kVA/pa \$/customer/day \$/kWh \$/kVA/month Nov-March only	7:00am to 9:00pm workdays. At all other times not picked up in peak window Demand charge based on the highest daily average maximum demand for the month from November through March, at 150% of Annual price. CBD 11:00am-5:00pm workdays only Non-CBD 5:00pm-9:00pm all days Anytime demand charged on the highest half- hour demand during the last 12 months. Fixed supply charge per annum Anytime based on usage Maximum demand charge based on actual monthly maximum kVA demand measured: Over a 30-minute time period; and 4:00pm to 9:00pm, workdays, Nov-March. Maximum demand charge based on actual monthly maximum kVA demand measured: Over a 30-minute time period; and
Monthly demand HV Business Monthly demand (Same prices apply to CBD and Rest of SA; peak demand period differs) Large LV business Actual demand – Transition HV Business Actual demand - Transition	Closed Interval meter (Type 4) Closed Interval meter (Type 4) Special tariff Interval meter	Usage – Peak Usage – Off-peak Demand – Peak actual Demand – Anytime actual Fixed Usage Demand – Peak Actual Demand – Shoulder Actual	\$/kWh \$/kWh \$/kVA/month Nov-March only \$/kVA/pa \$/customer/day \$/kWh \$/kVA/month Nov-March only \$/kVA/month All year	7:00am to 9:00pm workdays. At all other times not picked up in peak window Demand charge based on the highest daily average maximum demand for the month from November through March, at 150% of Annual price. CBD 11:00am-5:00pm workdays only Non-CBD 5:00pm-9:00pm all days Anytime demand charged on the highest half- hour demand during the last 12 months. Fixed supply charge per annum Anytime based on usage Maximum demand charge based on actual monthly maximum kVA demand measured: Over a 30-minute time period; and 4:00pm to 9:00pm, workdays, Nov-March. Maximum demand charge based on actual monthly maximum kVA demand measured: Over a 30-minute time period; and Over a 30-minute time period; and 12:00 noon to 4:00pm workdays, 12 months
Monthly demand HV Business Monthly demand (Same prices apply to CBD and Rest of SA; peak demand period differs) Large LV business Actual demand – Transition HV Business Actual demand - Transition Large LV business Back-up	Closed Interval meter (Type 4) Closed Interval meter (Type 4)	Usage – Peak Usage – Off-peak Demand – Peak actual Demand – Anytime actual Fixed Usage Demand – Peak Actual Demand – Shoulder Actual	\$/kWh \$/kWh \$/kVA/month Nov-March only \$/kVA/pa \$/customer/day \$/kWh \$/kVA/month Nov-March only \$/kVA/month All year	7:00am to 9:00pm workdays. At all other times not picked up in peak window Demand charge based on the highest daily average maximum demand for the month from November through March, at 150% of Annual price. CBD 11:00am-5:00pm workdays only Non-CBD 5:00pm-9:00pm all days Anytime demand charged on the highest half- hour demand during the last 12 months. Fixed supply charge per annum Anytime based on usage Maximum demand charge based on actual monthly maximum kVA demand measured: Over a 30-minute time period; and 4:00pm to 9:00pm, workdays, Nov-March. Maximum demand charge based on actual monthly maximum kVA demand measured: Over a 30-minute time period; and 12:00 noon to 4:00pm workdays, 12 months Fixed supply charge per annum
Monthly demand HV Business Monthly demand (Same prices apply to CBD and Rest of SA; peak demand period differs) Large LV business Actual demand – Transition HV Business Actual demand - Transition Large LV business Back-up HV business	Closed Interval meter (Type 4) Closed Interval meter (Type 4) Special tariff Interval meter	Usage – Peak Usage – Off-peak Demand – Peak actual Demand – Anytime actual Fixed Usage Demand – Peak Actual Demand – Shoulder Actual	\$/kWh \$/kWh \$/kWh \$/kVA/month Nov-March only \$/kVA/pa \$/customer/day \$/kWh \$/kVA/month Nov-March only \$/kVA/month All year \$/customer/day \$/kWh	7:00am to 9:00pm workdays. At all other times not picked up in peak window Demand charge based on the highest daily average maximum demand for the month from November through March, at 150% of Annual price. • CBD 11:00am-5:00pm workdays only • Non-CBD 5:00pm-9:00pm all days Anytime demand charged on the highest half- hour demand during the last 12 months. Fixed supply charge per annum Anytime based on usage Maximum demand charge based on actual monthly maximum kVA demand measured: • Over a 30-minute time period; and • 4:00pm to 9:00pm, workdays, Nov-March. Maximum demand charge based on actual monthly maximum kVA demand measured: • Over a 30-minute time period; and • 12:00 noon to 4:00pm workdays, 12 months Fixed supply charge per annum 7:00am to 9:00pm workdays.
Monthly demand HV Business Monthly demand (Same prices apply to CBD and Rest of SA; peak demand period differs) Large LV business Actual demand – Transition HV Business Actual demand - Transition Large LV business Back-up	Closed Interval meter (Type 4) Closed Interval meter (Type 4) Special tariff Interval meter	Usage – Peak Usage – Off-peak Demand – Peak actual Demand – Anytime actual Fixed Usage Demand – Peak Actual Demand – Shoulder Actual	\$/kWh \$/kWh \$/kWh \$/kVA/month Nov-March only \$/kVA/pa \$/customer/day \$/kWh \$/kVA/month Nov-March only \$/kVA/month All year \$/customer/day \$/kWh \$/kWA/month	7:00am to 9:00pm workdays. At all other times not picked up in peak window Demand charge based on the highest daily average maximum demand for the month from November through March, at 150% of Annual price. • CBD 11:00am-5:00pm workdays only • Non-CBD 5:00pm-9:00pm all days Anytime demand charged on the highest half- hour demand during the last 12 months. Fixed supply charge per annum Anytime based on usage Maximum demand charge based on actual monthly maximum kVA demand measured: • Over a 30-minute time period; and • 4:00pm to 9:00pm, workdays, Nov-March. Maximum demand charge based on actual monthly maximum kVA demand measured: • Over a 30-minute time period; and • 12:00 noon to 4:00pm workdays, 12 months Fixed supply charge per annum 7:00am to 9:00pm workdays. At all other times not picked up in peak window
Monthly demand HV Business Monthly demand (Same prices apply to CBD and Rest of SA; peak demand period differs) Large LV business Actual demand – Transition HV Business Actual demand - Transition Large LV business Back-up HV business	Closed Interval meter (Type 4) Closed Interval meter (Type 4) Special tariff Interval meter	Usage – Peak Usage – Off-peak Demand – Peak actual Demand – Anytime actual Fixed Usage Demand – Peak Actual Demand – Shoulder Actual Fixed Usage – Peak Usage – Peak Usage – Peak	\$/kWh \$/kWh \$/kWh \$/kVA/month Nov-March only \$/kVA/pa \$/customer/day \$/kWh \$/kVA/month Nov-March only \$/kVA/month All year \$/customer/day \$/kWh \$/kWA/month	7:00am to 9:00pm workdays. At all other times not picked up in peak window Demand charge based on the highest daily average maximum demand for the month from November through March, at 150% of Annual price. • CBD 11:00am-5:00pm workdays only • Non-CBD 5:00pm-9:00pm all days Anytime demand charged on the highest half- hour demand during the last 12 months. Fixed supply charge per annum Anytime based on usage Maximum demand charge based on actual monthly maximum kVA demand measured: • Over a 30-minute time period; and • 4:00pm to 9:00pm, workdays, Nov-March. Maximum demand charge based on actual monthly maximum kVA demand measured: • Over a 30-minute time period; and • 12:00 noon to 4:00pm workdays, 12 months Fixed supply charge per annum 7:00am to 9:00pm workdays. At all other times not picked up in peak window Not charged, incurred by the parent NMI
Monthly demand HV Business Monthly demand (Same prices apply to CBD and Rest of SA; peak demand period differs) Large LV business Actual demand – Transition HV Business Actual demand - Transition Large LV business Back-up HV business	Closed Interval meter (Type 4) Closed Interval meter (Type 4) Special tariff Interval meter	Usage – Peak Usage – Off-peak Demand – Peak actual Demand – Anytime actual Fixed Usage Demand – Peak Actual Demand – Shoulder Actual Fixed Usage – Peak Usage – Peak Peak Annual	\$/kWh \$/kWh \$/kWh \$/kVA/month Nov-March only \$/kVA/pa \$/customer/day \$/kWh \$/kVA/month Nov-March only \$/kVA/month All year \$/customer/day \$/kWh \$/kVA/month \$/kVA/month All year	7:00am to 9:00pm workdays. At all other times not picked up in peak window Demand charge based on the highest daily average maximum demand for the month from November through March, at 150% of Annual price. • CBD 11:00am-5:00pm workdays only • Non-CBD 5:00pm-9:00pm all days Anytime demand charged on the highest half- hour demand during the last 12 months. Fixed supply charge per annum Anytime based on usage Maximum demand charge based on actual monthly maximum kVA demand measured: • Over a 30-minute time period; and • 4:00pm to 9:00pm, workdays, Nov-March. Maximum demand charge based on actual monthly maximum kVA demand measured: • Over a 30-minute time period; and • 12:00 noon to 4:00pm workdays, 12 months Fixed supply charge per annum 7:00am to 9:00pm workdays. At all other times not picked up in peak window Not charged, incurred by the parent NMI

Network tariff	Status/ metering	Components	Measurement	Charging parameter
Large LV business Generation	Special tariff Interval meter	Fixed	\$/customer/day	Fixed supply charge per annum (applies to LV, not to HV supplies)
Supplies	(Type 4)	Usage – Peak	\$/kWh	Not applied to Generation supplies.
HV business Generation Supplies		Usage – Off-peak Demand – Peak Annual	\$/kWh \$/kVA/pa	Not applied to Generation supplies Demand charge based on the agreed firm supply requirements of the generator on extreme summer days. CBD 11:00am-5:00pm workdays only Non-CBD 5:00pm-9:00pm all days
		Demand – Anytime actual	\$/kVA/pa	Anytime demand charged on the agreed or highest half-hour demand during the last 12 months.

Table 17A-6: Major business tariff structures and charging parameters

Status	Components	Measurement	Charging parameter
Tariff amended	Fixed	\$/customer/day	Fixed supply charge per annum
for individual	Usage	\$/kWh	Anytime based on usage
customers	Demand –	\$/kVA pa	Agreed half-hour maximum demand during
	Peak Agreed		peak times, for pricing of transmission
	Demand –	\$/kVA pa	Anytime demand charged on the agreed or
	Anytime Actual		highest half-hour demand during the last 12
			months.
Tariff amended	Fixed	\$/customer/day	Fixed supply charge per annum
for individual	Usage	\$/kWh	Anytime based on usage
customers	Demand –	\$/kVA pa	Agreed half-hour maximum demand during
	Peak agreed		peak times, for pricing of transmission
	Demand –	\$/kVA pa	Anytime demand charged on the agreed or
	Anytime Actual		highest half-hour demand during the last 12 months.
	Tariff amended for individual customers Tariff amended for individual	Tariff amended for individual Usage customers Demand – Peak Agreed Demand – Anytime Actual Tariff amended for individual Customers Customers Demand – Peak agreed Demand – Peak agreed Demand –	Tariff amended for individual customers Fixed \$/customer/day Demand – peak Agreed \$/kVA pa Demand – Anytime Actual \$/kVA pa Tariff amended for individual customers Fixed \$/customer/day Demand – peak agreed \$/kVA pa Demand – peak agreed \$/kVA pa Demand – peak agreed \$/kVA pa

17.5 Approach to setting tariffs

The Rules⁹ specify that SA Power Networks' TSS must comply with the pricing principles for direct control services. The network pricing objective as specified within the Rules¹⁰, requires that our tariff charges should reflect our efficient costs of providing these services to customers using these tariffs. The efficient costs of a distributor are determined by the AER during the five-year regulatory reset process.

Our TSS demonstrates how SA Power Networks' network tariffs for the 2020-25 RCP will comply with the requirements of the Rules and the AER's final decision for the 2020-25 RCP in respect of the side constraints and pricing principles. For more information on the consideration that SA Power Networks applied when setting tariffs for the 2020-25 RCP, see the associated detail in our TSS Part B Explanatory statement.

17.5.1 Side constraints

In respect of pricing side constraints, SA Power Networks under the Rules¹¹ is limited to the annual movement of revenue recovery between tariff classes. <u>The AER's Final Decision¹² sets out the pricing side</u> constraints as they apply to SA Power Networks in the 2020 to 2025 regulatory period.

In the interest of simplicity, SA Power Networks has decided to introduce further constraints stating aAny tariff class cannot face increases that are more than 2% higher than the average increase for all tariffs. The side constraint applies to Distribution Use of System (DUoS) only and/or the tariff class as a whole, and not to individual tariffs, tariff elements nor individual customer outcomes.

Compliance with this side constraint is a matter for our Annual Pricing Proposals and is not discussed in detail in this TSS. We will ensure that the annual increase of each tariff class, average DUoS price (c/kWh) is not more that 102% of the average DUoS price increase overall.

Section 17.5.60 looks at our approach applied to unforeseen changes when preparing our annual pricing proposal. This approach may require different rates of price changes in different tariff classes. The side constraints will apply where any increase to a tariff class is greater than 2% above the average price change, resulting in price changes for that tariff class over multiple years. Unless unforeseen changes require a different tariff increase to the average, the tariff constraint should not bind during the 2020-25 RCP.

17.5.2 Stand-alone and avoidable costs

The Rules¹³ require SA Power Networks to ensure that the revenue recovered for each tariff class lies between:

- an upper bound, representing the stand-alone cost of serving the retail customers who belong to that class; and
- a lower bound, representing the avoidable cost of not serving those retail customers.

Therefore, the stand-alone and avoidable costs for a tariff class must be set between the costs necessary to only supply that tariff class (iei.e. a standalone price) and the costs that could be avoided if that tariff class were not supplied at all. This ensures that tariffs cannot be set below the incremental cost to supply these customers and do not exceed the cost of only supplying these customers. These approaches are used to

⁹ NER, clause 6.18.1A(b)

¹⁰ NER, clause 6.18.5(a)

¹¹ NER, clause 6.18.6

¹² AER, Final Decision Attachment 13 Control Mechanisms, May 2020

¹³ NER, clause 6.18.5(e)

calculate the revenues for each standard control services tariff class. The costs are compared with the weighted average revenue derived from SA Power Networks' proposed tariffs.

Our TSS Part B Explanatory statement, contains a breakdown of the revenue expected to be recovered from each of SA Power Networks' tariff classes in 2020/21 compared with the stand-alone and avoidable costs.

17.5.3 Long-run marginal costs

The consideration of Long Run Marginal Cost **(LRMC)** applies where price signalling charging parameters (peak period energy and demand related components) form part of a tariff. SA Power Networks aims to ensure that where price signals are varied, they are moved in such a direction as to improve alignment with the LRMC. Charging components that materially over-recover or under-recover the LRMC would not pass on an efficient pricing signal to customers that represents their cost of utilising the network.

In this TSS we have applied the average incremental cost (AIC) approach to determine the network LRMC for our tariff classes. The calculations for this approach have been carried out at the following voltage and voltage transformation levels of the network:

- Sub-transmission (33 kV and 66 kV)
- Zone Substation (11 kV busbar)
- HV Feeder (11 kV system connected)
- Distribution Substation (Low Voltage, connected at the substation busbar)

We have not included any LRMC calculation for LV Feeder in this Revised Proposal as any such cost, likely to occur, will be driven by an individual customer increasing demand from that able to be supplied from a shared LV line/transformer to that requiring a dedicated distribution transformer. Such costs are managed through the connection process, not through medium to long-term tariff signals. This is a simplification in our LRMC approach from that in our Original Proposal model.

The marginal cost at each network voltage level has been determined using the following relationship:

$$LRMC(AIC) = \frac{PV(Growth\ Related\ capex) +\ PV(Growth\ Related\ opex)}{PV(incremental\ demand)}$$

Where:

- *growth related capex* is the annualised capital expenditure to meet the additional demand over the forecast period;
- growth related opex is the incremental annual cost of operating and maintaining the newly constructed network assets over the forecast period;
- incremental demand is the forecast change in kVA demand compared with the base year; and
- PV stands for the present value of that calculation.

We have measured incremental demand for the 45% of our network with growth. We have excluded the 55% of our network that has declining growth. The LRMC signal is applied to the total network. The LRMC of our distribution network (\$/kVA pa) is included in Table 17A-7.

Table 17A-7: LRMC of our distribution network (\$/kVA pa)

Tariff Class	Step	Total
Sub-Transmission	\$ 14.6	\$ 14.6
Zone Substation	\$ 22.7	\$ 37.4
HV Feeder	\$ 13.3	\$ 50.7
LV Transformer	\$ 11.7	\$ 62.4

The way in which the LRMC and the balance of efficient costs has been taken into account by SA Power Networks in establishing the 2020-25 tariffs has involved the following considerations:

- Ensuring that demand price signalling components reasonably signal the LRMC: For large
 business, our peak demand DUoS charges reflect the LRMC of the network upstream of the
 connection voltage. An anytime demand charge is also applied which targets the connection
 voltage assets
- Use of price signalling components where practicable: In type 6 metering situations where demand cannot be effectively signalled, energy rates have been structured to ensure that efficient costs are recovered. However, the metering does not indicate usage during high consumption periods, so we have retained relatively simple tariff structures which recover the efficient costs for that tariff's assigned customers.
- Revenue recovery through non-distortionary charging parameters: For cost-reflective tariffs,
 demand charging parameters recover a proportion of the total revenue reflecting high network
 utilisation period future costs. The balance of revenue recovery takes place in the least
 distortionary manner possible, through fixed supply charges for the efficient costs of local assets
 and customer service with the balance recovered through energy usage rates. Lower rates apply to
 usage that is outside of high network utilisation periods for off peak periods (two-rate tariffs) and
 controlled load.

17.5.4 Our approach to revenue cost allocation across tariff classes

Distribution revenue is allocated across the tariff classes (and the tariffs) according to the usage by customers of the various voltage steps (represented by asset categories) involved. The efficient costs are apportioned across these asset categories, with customers' use of these assets determined by the customers' diversified demand and usage. Some assets are apportioned according to customer numbers ege.g. the connection services and a portion of the asset LV Lines reflecting house frontage needs. Customers are only charged for an asset category if they use it.

We allocate 50% of asset charges to demand as we have found that these amounts broadly reflect the LRMC of these assets. Note that we price the actual tariffs using the actual LRMC calculation, not the 50% cost allocation. The balance of asset charges is allocated in a non-distortionary manner using energy, apart from those costs which are driven principally by numbers of customers. If we need to consider pricing for a potentially constrained network, we will look at other variations to this for those specific locations and consider an 'opt-in' tariff/rebate. The variation might have a stronger demand signal reflecting the local LRMC. Customers would retain the right to access State-wide prices despite the constraint.

Table 17A-8 below outlines how SA Power Networks allocates the revenue across tariff classes. This ensures that tariffs reflect the efficient costs incurred in supplying customers using those tariffs.

Table 17A-8: 2020/21 Revenue cost allocation across network elements and to tariff classes

Allocation basis to tariff	Tariff Classes					
class	Major business	High Voltage business	Large LV business	Small business	Residential	
Number of Customers (NMI's)	0. <u>0</u> 0%	0.0 <u>2</u> %	0.5 <u>4</u> %	10. 7<u>69</u>%	88. 8 <u>75</u> %	
Diversified Demand (MVA)	4.3 <u>4</u> %	5.3 <u>3</u> %	24.4 <u>2</u> %	18.4 <u>34</u> %	47. <u>659</u> %	
Usage GWh (at Pool Exit)	10. <u>548</u> %	7.6 <u>4</u> %	2 9.0 <u>8.95</u> %	15. <u>141</u> %	36 37.852%	
Distribution (SA Power Networks)						
Sub-transmission lines		8 <u>.0</u> % al	located half demand and h	alf usage		
Zone substations		17 <u>.5</u> % a	llocated half demand and h	nalf usage		
High Voltage Lines	33 <u>.3</u> % allocated half demand and half usage					
Distribution transformers	17.0% allocated half demand and half usage				If usage	
Low voltage Lines	15.0% to NMI/demand/usage					
Services, GSLs				<u>65.5</u> % NI	MIs only	
Customer related			3 <u>.8</u> % customer related			
PV FiT Recovery (SA Government Scheme)						
PV FiT Recovery	37% Allocated on DUoS proportion 63%					
Transmission (ElectraNet)						
Transmission exit	10,0% peak demand allocation					
Transmission locational	6 5.8% locational		3231.7% peak demand allocation			
Transmission Non-locational	price pass through	2040.0	2/ Bd	22.70/ -!!	-1	
Transmission Common Service		2019.8% Demand 32.7% allocated on usage			ea on usage	

The transmission locational prices (exit and locational) are allocated on the basis of tariff class diversified demand. For the transmission non-locational and common service charges:

- Locational customers have an individually calculated allocation that provides the lowest price.
- Large LV business and HV business have an allocation based on their diversified KW demand as this provides the low price.
- Small business and residential are allocated the balance of these charges on a per MWh basis. This should be at a lower price than the ElectraNet published price adjusted for losses.

This arrangement ensures a reasonable pass through of the ElectraNet price structure and equitable outcomes.

17.5.5 Setting supply charges for individually calculated tariffs (Major business customers)

We will apply individually calculated tariffs for those major businesses that qualify for a locational transmission price. This price will be a direct pass through of the ElectraNet price schedule where possible, with a reasonable allocation of exit charges to the customer.

Where large customers have unique distribution supply arrangements and/or an ability to bypass some components of the network at a lower price, we will include an individually calculated distribution price component for the bypass/supply element and the standard distribution tariff beyond that point. Where possible, the calculation will use published network prices. Historical agreements escalated by Consumer Price Index (**CPI**) that pre-date these arrangements will continue to apply through the 2020-25 RCP.

17.5.6 Approach applied to unforeseen changes when preparing the Annual Pricing Proposal

Prices for our 2020-25 RCP have been set based on known 2018/19 outcomes for each tariff class, customer numbers, demands and usage applied to the allocation matric (Table 17A-8).

SA Power Networks will review subsequent years' outcomes, particularly when extreme summers (greater than 50% POE) have impacted all tariff classes. The resulting revenue cost allocations will be used as target tariff recoveries for each tariff class, which will reflect any unforeseen changes in the sales mix across the tariff classes. For example; if the take-up of PV and batteries affects one tariff class more so than the others, this allocation will result in a proportional adjustment to the tariffs within that tariff class.

<u>As discussed above, SA Power Networks' implementation of the side constraint of average price change of greater than 2% could apply if extreme changes occur. In this situation, tariff re-balancing between tariff classes will occur in consecutive years.</u>

17.5.7 Pricing relativity to be retained through the 2020-25 RCP

Certain price relativities have been established in this TSS for tariffs within a tariff class. These relativities ensure that any price changes over the 2020-25 RCP affect all tariff prices equally. This ensures equity between those customers on type 6 and type 4 meters, and between those customers who remain on default tariffs and those on opt-in tariffs. Network prices have not been biased to favour one tariff over another, although the opt-in tariffs will be preferable for a cohort of customers.

These pricing relativities apply to the transmission, the SA Government's PV FiT scheme and distribution components. The cost pass-through of the SA Government's PV FiT scheme has a single price for each tariff class comprising either supply charge plus usage (residential and small business), or usage charge only (large business tariff classes). Rounding may lead to marginal differences between these commitments and the numbers in the annual pricing proposals but these will remain less than 0.5%.

• Residential:

- Residential supply charge (NUoS) increase by \$10 pa
- ToU peak is 125% of single-rate, as is OPCL-ToU
- ToU off-peak is 50% of single rate, as is OPCL-ToU
- ToU solar sponge is 25% of single rate, as is OPCL-ToU
- Prosumer tariff usage rates are 60% of ToU rates
- Prosumer tariff distribution demand charge kW pa is equal to 840kWh of distribution single rate. Price is charged on five individual months (November to March).

• Small business:

- Small business supply charge (NUoS) increase by \$20 pa
- Single rate equals two-rate with 77.5% peak usage
- Two-rate peak is 112.7% of single rate
- Two-rate off-peak is 50% of peak and 56.3% of single rate
- ToU peak is 150% of single rate
- ToU shoulder is 104.4% of single rate
- ToU off-peak is 56.4% of single rate
- ToU+MD usage rates are 80% of ToU
- ToU+MD distribution demand charge kVA/day is equal to 283.7 kWh of distribution ToU peak
- Unmetered supply usage is 65.4% (DUoS) and 68.7% (TUoS) of single rate

Small business, large LV business and HV business actual demand (transition):

- Supply charges increase by \$1000 pa post 2020/21

- Demand charges remain at 2019/20 levels
- Usage charges increase by \$0.010/kWh pa post 2020/21

• Large LV type-6 meter tariffs:

- Supply charges as per small business type-6 meter tariff
- Usage charges 120% of small business type-6 meter charges

Large LV and HV business annual demand:

Peak usage charge is 1.6 times off-peak usage

Large LV and HV business monthly demand:

- Peak annual monthly demand is 1.5 times the peak annual maximum demand price
- All other rates are per large business annual demand

Appendix A. Compliance checklist

The development and revision of this TSS for the 2020-25 RCP is governed by Chapter 6 of the Rules. The compliance statement shown in Table 17A-9 has been prepared with reference to Version 128 of the Rules (1 December 2019). For context, we have set out the requirements for a 'tariff structure statement' (as defined in the Rules) and a revised proposed tariff structure statement.

Table 17A-9: Compliance with the NER

Rule Provision	Rule Requirement	Relevant Sectio
PART E: Proposed	I tariff structure statement	
6.8.2	Submission of regulatory proposal and tariff structure statement	
6.8.2(a)	A Distribution Network Service Provider must, whenever required to do	Noted
	so under paragraph (b), submit to the AER a proposed tariff structure	
	statement related to the distribution services provided by means of, or	
	in connection with, the <i>Distribution Network Service Provider's</i>	
/ 1/->	distribution system.	
6.8.2(c)(7)	A regulatory proposal must include a description (with supporting	TSS Part A
6.8.2(c1)	materials) of how the proposed tariff structure statement complies with	
6.8.2(c2)	the pricing principles for direct control services, including:	
6.8.2(d)	 a description of where there has been any departure from the pricing principles set out in paragraphs 6.18.5 (e) to (g); and 	
	 an explanation of how that departure complies with clause 6.18.5(c). 	
6.8.2(d1)	The proposed tariff structure statement must be accompanied by an	TSS Part A
` '	indicative pricing schedule.	Appendix B
6.8.2(d2)	The proposed tariff structure statement must comply with the pricing	TSS Part A
` ,	principles for direct control services.	
PART E: Proposed	l tariff structure statement	
6.10.3	Submission of revised proposal	
6.10.3(b1)	A revised proposed tariff structure statement must comply with the	TSS Part A
	pricing principles for direct control services.	Appendix B
6.10.3(b1)	A revised proposed tariff structure statement must be accompanied by	TSS Part A
	an indicative pricing schedule.	
PART I: Distributi	on pricing rules	
6.18.1A	Tariff structure statement	
6.18.1A(a)	A tariff structure statement of a Distribution Network Service Provider	
	must include the following elements:	
6.18.1A(a)(1)	the tariff classes into which retail customers for direct control	TSS Part A
	services will be divided during the relevant regulatory control	17.2.1
	period;	
6.18.1A(a)(2)	the policies and procedures the Distribution Network Service	TSS Part A
	Provider will apply for assigning retail customers to tariffs or	17.2.1
	reassigning retail customers from one tariff to another (including	
	any applicable restrictions);	
6.18.1A(a)(3)	the structures for each proposed tariff;	TSS Part A
		17.4
6.18.1A(a)(4)	the charging parameters for each proposed tariff; and	TSS Part A
		17.4
6.18.1A(a)(5)	a description of the approach that the Distribution Network Service	TSS Part A
	Provider will take in setting each tariff in each pricing proposal of	17.5
	the Distribution Network Service Provider during the relevant	
	regulatory control period in accordance with clause 6.18.5.	
6.18.1A(b)	A tariff structure statement must comply with the pricing principles for	TSS Part A
	direct control services.	

Rule Provision	Rule Requirement	Relevant Section
6.18.1A(c)	A Distribution Network Service Provider must comply with the tariff structure statement approved by the AER and any other applicable requirements in the Rules, when the provider is setting the prices that	Noted
5.18.1A(d)	may be charged for <i>direct control services</i> . Subject to clause 6.18.1B, a <i>tariff structure statement</i> may not be amended during a <i>regulatory control period</i> .	Noted
	Note: Rule 6.13 still applies in relation to a <i>tariff structure statement</i> because that rule deals with the revocation and substitution of a distribution determination (which includes a <i>tariff structure statement</i>) as opposed to its amendment.	
5.18.1A(e)	A tariff structure statement must be accompanied by an <i>indicative</i> pricing schedule which sets out, for each tariff for each regulatory year of the regulatory control period, the indicative price levels determined in accordance with the tariff structure statement.	TSS PART A Appendix B
5.18.3	Tariff classes Each retail customer for direct control services must be a member of 1	TCC DART A
6.18.3(b)	or more tariff classes.	TSS PART A 17.4 & 17.5
6.18.3(c)	Separate <i>tariff classes</i> must be constituted for <i>retail customers</i> to	TSS PART A
2.23.5(0)	whom standard control services are supplied and retail customers to	17.4 & 17.5
	whom alternative control services are supplied (but a retail customer	·- -
	for both standard control services and alternative control services may	
	be a member of 2 or more tariff classes).	
5.18.3(d)	A tariff class must be constituted with regard to:	
5.18.3(d)(1)	the need to group retail customers together on an economically	TSS PART A
C 40 0/ IV(0)	efficient basis; and	17.4 & 17.5
6.18.3(d)(2)	the need to avoid unnecessary transaction costs.	TSS PART A
6.18.4	Dringinles governing aggignment or so aggignment of retail systemore to	17.4 & 17.5
0.10.4	Principles governing assignment or re-assignment of retail customers to assessment and review of basis of charging	tailii ciasses allu
6.18.4(a)	In formulating provisions of a distribution determination governing the	Noted
	assignment of retail customers to tariff classes or the re-assignment of	
	retail customers from one tariff class to another, the AER must have	
	regard to the following principles:	
6.18.4(a)(1)	retail customers should be assigned to tariff classes on the basis of	TSS PART A
	one or more of the following factors:	17.2.2
	(i) the nature and extent of their usage;	
	(ii) the nature of their connection to the network;(iii) whether remotely read interval metering or other similar	
	metering technology has been installed at the retail customer's	
	premises as a result of a regulatory obligation or requirement;	
6.18.4(a)(2)	retail customers with a similar connection and usage profile should	TSS PART A
	be treated on an equal basis;	17.2.2
6.18.4(a)(3)	however, retail customers with micro-generation facilities should be	TSS PART A
	treated no less favourably than retail customers without such	17.2.2
C 40 4/ .\/ 4\	facilities but with a similar load profile;	TCC 2.27 :
6.18.4(a)(4)	a Distribution Network Service Provider's decision to assign a	TSS PART A
	customer to a particular tariff class, or to re-assign a customer from one tariff class to another should be subject to an effective system	17.2.2
	of assessment and review.	
6.18.4(b)	If the <i>charging parameters</i> for a particular tariff result in a basis of	Noted
	charge that varies according to the usage or load profile of the	.,0.00
	customer, a distribution determination must contain provisions for an	
	castorner, a distribution acternination mast contain provisions for an	
	effective system of assessment and review of the basis on which a	

Rule Provision	Rule Requirement	Relevant Section
6.18.5	Pricing Principles	
Network pricing o		NI. I. J
6.18.5(a)	The network pricing objective is that the tariffs that a Distribution Network Service Provider charges in respect of its provision of direct control services to a retail customer should reflect the Distribution Network Service Provider's efficient costs of providing those services to the retail customer.	Noted
Application of the	pricing principles	
6.18.5(b)	Subject to paragraph (c), a <i>Distribution Network Service Provider's</i> tariffs must comply with the pricing principles set out in paragraphs (e) to (j).	Noted
6.18.5(c)	A <i>Distribution Network Service Provider's</i> tariffs may vary from tariffs which would result from complying with the pricing principles set out in paragraphs (e) to (g) only:	Noted
6.18.5(c)(1)	to the extent permitted under paragraph (h); and	Noted
6.18.5(c)(2)	to the extent necessary to give effect to the pricing principles set out in paragraphs (i) to (j).	Noted
6.18.5(d)	A <i>Distribution Network Service Provider</i> must comply with paragraph (b) in a manner that will contribute to the achievement of the <i>network pricing objective</i> .	Noted
Pricing principles		
6.18.5(e)	For each <i>tariff class</i> , the revenue expected to be recovered must lie on or between:	
6.18.5(e)(1)	an upper bound representing the stand-alone cost of serving the retail customers who belong to that class; and	TSS PART A 17.5
6.18.5(e)(2)	a lower bound representing the avoidable cost of not serving those retail customers.	TSS PART A 17.5
6.18.5(f)	Each tariff must be based on the <i>long run marginal cost</i> of providing the service to which it relates to the <i>retail customers</i> assigned to that tariff with the method of calculating such cost and the manner in which that method is applied to be determined having regard to:	
6.18.5(f)(1)	the costs and benefits associated with calculating, implementing and applying that method as proposed;	TSS PART A 17.5
6.18.5(f)(2)	the additional costs likely to be associated with meeting demand from <i>retail customers</i> that are assigned to that tariff at times of greatest utilisation of the relevant part of the <i>distribution network</i> ; and	TSS PART A 17.5
6.18.5(f)(3)	the location of <i>retail customers</i> that are assigned to that tariff and the extent to which costs vary between different locations in the <i>distribution network</i> .	TSS PART A 17.5
6.18.5(g)	The revenue expected to be recovered from each tariff must:	
6.18.5(g)(1)	reflect the <i>Distribution Network Service Provider's</i> total efficient costs of serving the <i>retail customers</i> that are assigned to that tariff;	TSS PART A 17.5
6.18.5(g)(2)	when summed with the revenue expected to be received from all other tariffs, permit the <i>Distribution Network Service Provider</i> to recover the expected revenue for the relevant services in accordance with the applicable distribution determination for the <i>Distribution Network Service Provider</i> ; and	TSS PART A 17.5
6.18.5(g)(3)	comply with sub-paragraphs (1) and (2) in a way that minimises distortions to the price signals for efficient usage that would result from tariffs that comply with the pricing principle set out in paragraph (f).	TSS PART A 17.5
6.18.5(h)	A Distribution Network Service Provider must consider the impact on retail customers of changes in tariffs from the previous regulatory year and may vary tariffs from those that comply with paragraphs (e) to (g)	

Rule Provision	Rule Requirement	Relevant Section
	to the extent the Distribution Network Service Provider considers	
	reasonably necessary having regard to:	
6.18.5(h)(1)	the desirability for tariffs to comply with the pricing principles	TSS PART A
	referred to in paragraphs (f) and (g), albeit after a reasonable period	17.5
	of transition (which may extend over more than one regulatory	
	control period);	
6.18.5(h)(2)	the extent to which retail customers can choose the tariff to which	TSS PART A
	they are assigned; and	17.5
6.18.5(h)(3)	the extent to which retail customers are able to mitigate the impact	TSS PART A
	of changes in tariffs through their usage decisions.	17.5
6.18.5(i)	The structure of each tariff must be reasonably capable of being	
	understood by retail customers that are assigned to that tariff, having	
	regard to:	
6.18.5(i)(1)	the type and nature of those retail customers; and	TSS PART B
6.18.5(i)(2)	the information provided to, and the consultation undertaken with,	TSS Part A
	those retail customers.	17.4
6.18.5(j)	A tariff must comply with the Rules and all applicable regulatory	Noted
	instruments.	
6.18.6	Side constraints on tariff for standard control services	
6.18.6(a)	This clause applies only to tariff classes related to the provision of	TSS PART A
	standard control services.	17.5
6.18.6(b)	The expected weighted average revenue to be raised from a tariff class	TSS PART A
	for a particular regulatory year of a regulatory control period must not	17.5
	exceed the corresponding expected weighted average revenue for the	
	preceding regulatory year in that regulatory control period by more	
	than the permissible percentage.	

Appendix B. <u>Tariff structures</u><u>Indicative pricing schedules</u> – Standard Control Services

The indicative prices for the five years of the 2020-25 <u>regulatory control period were included in SA Power Networks' revised regulatory proposal and will be updated and resubmitted by SA Power Networks in each annual pricing proposal.</u>

The following charts set out which charging parameters (e.g. fixed charges; usage charges; demand charges) for which tariffs are used to recover which network cost components (DUoS costs; alternative control costs; TUoS costs; PV FiT costs).

Table 17A-10: Residential and small business indicative price structure (\$nominal)

Residential and Small Business I	ndicative Prices					
2020/21 to 2024/25, excl GST	DUoS	Alt CS	TUoS	PV FiT	NUoS	
esidential Customers						
Residential Type 6	Tariff Closed					
Customers/Supply Ch	\$ pa	Х		-	Х	Х
Usage	\$/kWh	Х		Х	Χ	Х
Residential TOU	Default Tariff, Typ	e 4 and 5 mete	ers			
Customers/Supply Ch	\$ pa	Х		-	Х	Χ
Peak Usage	\$/kWh	Х		Х	Х	Х
Off-Pk Usage	\$/kWh	Х		Х	Х	Х
Solar Sponge Usage	\$/kWh	Х		Х	Х	Х
Residential Prosumer	Opt-in Tariff, Type	4 meters				
Customers/Supply Ch	\$pa	Х		-	X	Х
Peak Usage	\$/kWh	х		х	Х	Х
Off-Pk Usage	\$/kWh	х		Х	Х	Х
Solar Sponge Usage	\$/kWh	X		X	X	Х
Summer Demand	1 \$/kW/mth pa	X		X	X	X
OPCL Hot Water Type 5, 6	Tariff Closed	^		^	^	^
Usage	\$/kWh	Х		Х	Х	Х
OPCL Hot Water Type 4	Default Tariff, Typ		CI	Λ	Λ	^
••			CL	V	Х	V
Peak Usage	\$/kWh	X		X	• • • • • • • • • • • • • • • • • • • •	X
Off-Pk Usage	\$/kWh	X		X	X	X
Solar Sponge Usage	\$/kWh	Х		Х	Х	Х
mall Business Customers						
Business Unmetered Supply	Default Tariff Type	e 7 meters				
Usage	\$/kWh	Х		Х	X	Х
Business Single Type 6	Tariff Closed					
Customers/Supply Ch	\$pa	Х		-	Х	Х
Usage	\$/kWh	Х		Х	X	Х
Business 2-Rate Type 6	Tariff Closed					
Customers/Supply Ch	\$pa	Х		-	Х	Х
Peak usage	\$/kWh	Х		Х	Х	Х
Off-Pk Usage	\$/kWh	Х		Х	Х	X
Business TOU Type 4, 5	Default Tariff <120		(incl all Whol	e Current me		
Customers/Supply Ch	\$pa	Х		-	Х	Х
Peak usage	\$/kWh	X		Х	Х	X
Shoulder Usage	\$/kWh	X		Х	Х	Х
Off-Peak Usage	\$/kWh	X		Х	X	Х
Business TOU+MD >120 kVA	Default Tariff >120		type 4 and 5	meters, Opt-		
Customers/Supply Ch	\$ pa	X		-	Х	X
Anytime Max Demand	3 \$/kVA pa	X			-	X
Peak usage	\$/kWh	X		X	X	X
Shoulder Usage	\$/kWh	X		X	X	X
Off-Peak Usage	\$/kWh	Х		Х	Х	X
Small Business Actual Demand	Tariff Closed					
Customers/Supply Ch	\$ pa	X			Х	X
Peak Actual Demand	1 \$/kVA/mth pa	X		X	-	X
Shoulder Actual Demand	2 \$/kVA/mth pa	X		X	-	X
Usage	\$/kWh	X		Х	Х	X
Small Business OPCL Type 5, 6	Tariff Closed. Not	•	type 4 mete			
Usage	\$/kWh	X		X	X	X

Notes on Demand Elements

- 1 highest daily demand each of five months Nov-March charged per month
- 2 highest daily demand each of twelve months July-June charged per month
- 3 12 month rolling reset charged proportionally each month
- 4 agreed demand charged proportionally each month
- ${\bf 5} \,\, {\bf Peak} \, {\bf demand} \, {\bf not} \, {\bf applicable} \, {\bf to} \, {\bf backup, incurred} \, {\bf by} \, {\bf principal} \, {\bf supply}$

Table 17A-11: Large LV business indicative-price_structure (\$nominal)

Large LV Business Indicative Pric			•			
2020/21 to 2024/25, excl GST		DUoS	Alt CS	TUoS	PV FiT	NUoS
rge LV Business Customers						
Large LV Bus Actual Demand	Tariff Closed					
Customers/Supply Ch	\$ pa	Х		-	-	Х
Peak Actual Demand	1 \$/kVA/mth pa	Х		Χ	-	Χ
Shoulder Actual Demand	2 \$/kVA/mth pa	Х		Χ	-	Χ
Usage	\$/kWh	Х		Χ	Х	Χ
Large Bus Monthly Demand	Opt-In Tariff, Same	e prices apply	to CBD and Re	est of SA, Pea	k demand per	riod differs
Customers/Supply Ch	\$ pa	Х		-	-	Χ
Peak Actual Monthly Dem	1 \$/kVA/mth pa	Х		X	-	Χ
Anytime Actual Demand	3 \$/kVA pa	Х		-	-	Χ
Peak Usage	\$/kVA pa	Х		Χ	Х	Χ
Off-Peak Usage	\$/kWh	Х		Χ	Х	Х
Large Bus Annual Demand	Default Tariff, San	ne prices apply	to CBD and R	est of SA, Pe	ak demand pe	riod differs
Customers/Supply Ch	\$ pa	Х		-	-	Χ
Peak Annual Max Demand	3 \$/kVA pa	Х		Χ	-	Χ
Anytime Actual Demand	3 \$/kVA pa	Х		-	-	Χ
Peak Usage	\$/kWh	Х		Χ	Х	Χ
Off-Peak Usage	\$/kWh	Х		Χ	Х	Χ
Large Bus Back-Up	Special Tariff					
Customers/Supply Ch	\$ pa		X	-	-	Χ
Peak Annual Max Demand	5 \$/kVA pa					
Anytime Actual Demand	4 \$/kVA pa		X	-	-	Χ
Peak Usage	\$/kWh	Х		Χ	Х	Х
Off-Peak Usage	\$/kWh	Х		Χ	Х	Х
Large Bus Generation Supplies	Special Tariff					
Customers/Supply Ch	\$ pa		X	-	-	Х
Peak Annual Max Demand	4 \$/kVA pa		X	X	-	Χ
Anytime Actual Demand	4 \$/kVA pa		X	-	-	Х
Peak Usage	\$/kWh	-		-	-	-
Off-Peak Usage	\$/kWh	-		-	-	-
Large Bus Trans Type 6 Single	Closed					
Customers/Supply Ch	\$ pa	Х		-	Χ	Х
Usage	\$/kWh	Х		Χ	Χ	Х
Large Bus Trans Type 6 2-rate	Closed					
Customers/Supply Ch	\$ pa	х		-	X	Х
Peak usage	\$/kWh	Х		Х	Χ	Х
Off-Pk Usage	\$/kWh	х		Χ	Х	Х

Notes on Demand Elements

- 1 highest daily demand each of five months Nov-March charged per month
- 2 highest daily demand each of twelve months July-June charged per month
- 3 12 month rolling reset charged proportionally each month
- 4 agreed demand charged proportionally each month
- 5 Peak demand not applicable to backup, incurred by principal supply

Table 17A-12: Large HV business and Major business Indicative price structure (\$nominal)

IIV and Major Business Indicativ	a Duigo.			(+		
HV and Major Business Indicative Prices		DUoS				
2020/21 to 2024/25, excl GST			Alt CS	TUoS	PV FiT	NUoS
HV Business Customers						
HV Business Actual Demand	Tariff Closed					
Customers/Supply Ch	\$ pa	Х		-	-	Х
Peak Actual Demand	1 \$/kVA/mth pa	Х		Х	-	Х
Shoulder Actual Demand	2 \$/kVA/mth pa	Х		Χ	-	Χ
Usage	\$/kWh	X		Χ	Х	Х
HV Business Monthly Demand	Opt-In Tariff, Same	prices apply	to CBD and Re	est of SA, Pea	k demand per	iod differs
Customers/Supply Ch	\$ pa	Х		-	-	Χ
Peak Actual Monthly Dema	1 \$/kVA/mth pa	Х		Χ	-	Χ
Anytime Actual Demand	3 \$/kVA pa	Х		-	-	Χ
Peak Usage	\$/kVA pa	X		X	X	Χ
Off-Peak Usage	\$/kWh	X		Χ	Х	Χ
HV Business Annual Demand	Default Tariff, Sam	e prices apply	to CBD and F	lest of SA, Pe	ak demand pe	riod differs
Customers/Supply Ch	\$ pa	X		-	-	Χ
Peak Annual Max Demand	3 \$/kVA pa	X		X	-	Χ
Anytime Actual Demand	3 \$/kVA pa	Х		-	-	Χ
Peak Usage	\$/kWh	Х		Χ	Х	Χ
Off-Peak Usage	\$/kWh	Х		Х	Х	Χ
HV Business Annual <500	Opt-In Tariff, Same	prices apply	to CBD and Re	est of SA, Pea	k demand per	iod differs
Customers/Supply Ch	\$ pa	Х		-	-	Χ
Peak Annual Max Demand	1 \$/kVA pa	Х		Х	-	Χ
Anytime Actual Demand	3 \$/kVA pa	Х		-	-	Χ
Peak Usage	\$/kWh	Х		Χ	Х	Χ
Off-Peak Usage	\$/kWh	Х		Χ	Х	Χ
HV Business Back-Up	Special Tariff					
Customers/Supply Ch	\$ pa		X	-	-	Χ
Peak Annual Max Demand	5 \$/kVA pa					
Anytime Actual Demand	4 \$/kVA pa		X	-	-	Χ
Peak Usage	\$/kWh	Х		Χ	Х	Χ
Off-Peak Usage	\$/kWh	Х		Χ	Х	Χ
HV Bus Generation Supplies	Special Tariff					
Customers/Supply Ch	\$pa		-	-	-	-
Peak Annual Max Demand	4 \$/kVA pa		X	Х	-	Χ
Anytime Actual Demand	4 \$/kVA pa		X	-	-	Χ
Peak Usage	\$/kWh	-		-	-	_
Off-Peak Usage	\$/kWh	-		-	-	_
Major Business Customers						
Zone S-Stn Non-Loc	Tariff amended fo	r individual Cu	ustomers, eg	TUoS and som	ne DUoS fixed	charges
Customers/Supply Ch	\$ pa	-	, -8	-	-	-
Peak Agreed Demand	4 \$/kVA pa	Х		Х	_	Х
Anytime Agreed Demand	•	X		-	_	X
Usage	\$/kWh	X		Х	Х	X
Sub-Trans Non-Loc			ıstomers, eg			
Customers/Supply Ch	\$ pa	-	, съ	-	-	-
Peak Agreed Demand	4 \$/kVA pa	_		Х	_	Х
Anytime Agreed Demand	4 \$/kVA pa	Х		-	_	X
Usage	\$/kWh	X		Х	Х	X
03060	Y/ (V V I I	^		^	^	

Notes on Demand Elements

- 1 highest daily demand each of five months Nov-March charged per month
- 2 highest daily demand each of twelve months July-June charged per month
- 3 12 month rolling reset charged proportionally each month
- 4 agreed demand charged proportionally each month
- 5 Peak demand not applicable to backup, incurred by principal supply

Appendix C. <u>Tariff structures</u><u>Indicative pricing schedules</u> – Alternative Control Services

Please note the Alternative Control Services approved prices for the first year of the regulatory control period can be found in the AER's alternative control services attachment (15) to the AER's final decision for SA Power Networks 2020-25 regulatory control period. The information on how these prices will be escalated over the regulatory control period can be found in the control mechanisms attachment (13), as well as and the Alternative Control Services attachment, to this decision.

C.1 Ancillary Network Services price schedule

C.1.1 Fee-based services

Service Group	Service	Service Description	Fee code
		initiated services related to common distribution services	_
Access permits, oversight and facilitation	Standard Charge Network Access Permit (8am - 3pm)	Organisation of switching requirements and field work to allow 3 rd party access to de-energised assets or to work in close proximity of SA Power Networks assets, where work is completed between 8am and 3pm. This fee includes the administration associated with arranging the permit, and field work to issue the permit and relinquish the permit once work is completed.	NDS 450
	Standard NAP Extended daytime hours (6am - 6pm) (Weekdays)	Organisation of switching requirements and field work to allow 3 rd party access to de-energised assets or to work in close proximity of SA Power Networks assets, where the issuing of the permit or relinquishing of the permit is required to be completed between the hours of 6am and 6pm on weekdays.	NDS 451
	Emergency NAP / Weekends / night shift	Organisation of switching requirements and field work to allow 3 rd party access to de-energised assets <u>or to work in close proximity of SA Power Networks assets</u> , where the issuing of the permit or relinquishing of the permit is required to be completed outside of business hours or in an emergency.	NDS 452
	Network access management fee - cancellation	Cancellation of network access permit within 2 full business days of confirmed date.	NDS 429
Network	Temporary line insulation (eg tiger tails)	Temporary insulation of LV mains, eg to erect and remove 'Tiger Tails' on LV mains.	NDS 371
safety services Inspection and auditing services	Site Inspection	Site inspection to determine nature of the requested connection service < 2 hrs.	NDS 398
	Re-inspection for compliance	Re-inspection of an asset issued with a non-compliance notice (including travel time) – up to 3 hours normal time.	NDS 345
	Re-inspection for compliance > 3hrs	Re-inspection of an asset issued with a non-compliance notice – hourly rate after 3 hours normal time.	NDS 346
	Re-inspection for compliance – after hours	Re-inspection of an asset issued with a non-compliance notice – hourly rate after hours.	NDS 347

Service Group	Service	Service Description	Fee code
Security Lights	Security Lighting - HID <=400W	Floodlight capital cost recovery and maintenance of installed security lights up to 400W (non-LED). This fee also includes removal of the light, installation costs are recovered as a quoted fee upon request.	NDS453
	Security Lighting - HID >400W	Floodlight capital cost recovery and maintenance of installed security lights greater than 400W (non-LED). This fee also includes removal of the light, installation costs are recovered as a quoted fee upon request.	NDS454
	Security Lighting - LED <=200W	Floodlight capital cost recovery and maintenance of installed LED security lights up to 200W. This fee also includes removal of the light, installation costs are recovered as a quoted fee upon request.	NDS455
	Security Lighting - LED >200W	Floodlight capital cost recovery and maintenance of installed LED security lights greater than 200W. This fee also includes removal of the light, installation costs are recovered as a quoted fee upon request.	NDS456
Customer requested provision of electricity network data	Location of underground mains – provision of plans from office	Location of underground mains at the request of a customer – provision of plans from the office (no site visit required).	NDS 373
	Asset information request	Provision of asset information relating to condition, rating or available capacity to engineering consultants and electrical contractors and the supply of GIS information to customers or authorities < 1 hours work per request.	NDS 377
	Asset info request - Ground level transformers (site visit to open and visually see equipment)	Confirmation of available equipment in ground level transformers where the door needs to be opened by a SA Power Networks employee.	NDS 379
	Swing & Sag Calculations up to 11kV	Project management and survey work undertaken to prepare and issue a swing and sag calculation letter for the customer – up to 11kV.	NDS 419
	Swing & Sag Calculations > 11kV	Project management and survey work undertaken to prepare and issue a swing and sag calculation letter for the customer - > 11KV.	NDS 428

Metering services—activities relating to the measurement of electricity supplied to and from customers through the distribution system (excluding network meters)					
Auxiliary metering services (type 5 to 7	Meter test – single phase	Customer requested meter test where SA Power Networks is the Metering Coordinator (MC) and when a test is required due to high account or a subsequent incorrect functioning solar installation.	NDS 356		
metering installations)	Meter test – additional single-phase meter	Testing of each additional single-phase meter in conjunction with single phase meter test.	NDS 357		
	Meter test – three-phase	Customer requested meter test where SA Power Networks is the Metering Coordinator (MC) and when a test is required due to high account or a subsequent incorrect functioning solar installation.	NDS 358		
	Meter test – additional three phase meter	Testing of each additional three-phase meter in conjunction with single phase meter test.	NDS 359		
	Solar installation enquiry – single phase	Customer requests SA Power Networks to attend a single-phase solar installation which is not functioning correctly, and it is determined by the SA Power Networks' personnel that the problem is a result of the customer's solar installation being incorrectly set / malfunctioning.	NDS 360		
	Solar installation enquiry – three-phase	Customer requests SA Power Networks to attend a three-phase solar installation which is not functioning correctly, and it is determined by the SA Power Networks' personnel that the problem is a result of the	NDS 362		

Service Group	Service	Service Description	Fee code
		customer's solar installation being incorrectly set / malfunctioning.	
	Meter inspection fee	Request to complete physical inspection where SA Power Networks is the Metering Coordinator (MC) due to suspected meter tampering, equipment damage, or requested by the customer or their retailer.	NDS 364
	Meter inspection fee – each additional meter	Request to complete physical inspection where SA Power Networks is the Metering Coordinator (MC) - each additional meter.	NDS 365
	Special meter read visit – normal hours	A special meter reading visit occurs when a customer requests a check read or special read at premises.	NDS 386
	Special meter read visit – after hours	A special meter reading visit occurs when a customer requests a check read or special read at premises (where after-hours visit is requested).	NDS 387
	Special Read / Disco / Reco - Cancellation	Special meter reading, disconnection, or reconnection visit which is subsequently cancelled. This fee will be charged for all service orders cancelled prior to the work being completed.	NDS 388
	Meter read – subsequent attempt	Subsequent attempts to read a meter after reasonable attempt has been made but has been unsuccessful due to access difficulties.	NDS 389
	Third party requested outage for purpose of replacing a meter	At the request of a retailer or metering coordinator provide notification to affected customers and facilitate the disconnection / reconnection of customer metering installations where a retailer planned interruption cannot be conducted.	NDS 457
Connection serv	vices—services relating to the ele	ectrical or physical connection of a customer to the	
Connection application and management	Temporary supply -overhead or underground on existing pole	Provision of a temporary over to under service on an existing Stobie pole that is located up to 25 metres from the customer's property boundary on the mains side of the street.	BCS 141
services	Temporary supply - Existing pit/pillar	Provision of a temporary service from an existing low voltage service pit/pillar that is located up to 25 metres from the property boundary.	BCS 145
	Permanent abolishment of LV service	Request for permanent abolishment of the LV supply provision (this does not include the removal of additional distribution assets ie poles and transformers)	NDS 301
	Temporary disconnect and reconnect - customer	Requests for a temporary disconnection and reconnection, requiring a line truck attendance.	NDS 302
		Requests for a temporary disconnection and reconnection, requiring a single person crew attendance.	NDS 330
	Excess kVAr incentive	The Excess kVAr incentive charge is applied to each excess kVAr required over and above the implied kVAr allowance provided in the South Australian Electricity Distribution Code to meet a customer's agreed maximum demand on their recorded power factor at the time of their Actual Maximum Demand. The charge	NDS 366

Service Group	Service	Service Description	Fee code
		demand tariff who are not code compliant with respect	
		to power factor at the time of their Actual Maximum	
		Demand requiring greater than 10kVAr of correction.	
	Connections specification fee	Work undertaken in preparing and issuing the	
	- \$0-\$200k project	specification including one site visit for customer	NDS 340
		extension works. Project value \$0 - \$200k based on	.1200.0
		contestable value of project.	
	Connections specification fee	Work undertaken in preparing and issuing the	
	- >\$200k project	specification including one site visit for customer	NDS 341
		extension works. Project value greater than \$200k based on contestable value of project.	
	Priority or out of hour	Provision of a priority connection at the customer's	
	appointment – less than 3	request. Work will be undertaken out of hours or	
	hours	during normal hours in which case another job will be	NDS 401
		done after hours to accommodate the requested	
		connection date.	
	Retailer fee - disconnection	Disconnection of supply.	
	& reconnection –		NDS 403
	Disconnection at meter		
	Retailer fee - disconnection	Reconnection of supply.	
	& reconnection –		NDS 404
	reconnection at meter		ND3 404
	Retailer fee - disconnection	Reconnection of supply after hours.	
	& reconnection – reconnect	,	NIDC 40E
	meter after hours		NDS 405
	Embedded generation firm	Work undertaken for the network analysis, preparing	
	offer - >30kW-200kW	and issuing an offer letter, contract and associated	NDS 427
		commissioning for the customer's embedded generation system.	1100 127
	Retailer fee - Temporary	Retailer requesteds for a temporary disconnection and	
	disconnection and &	reconnection of supply where, requiring a line truck	NDC 420
	reconnection O/head —	attendance is required (e.g. for a pole top	NDS 430
	retailertruck attendance	disconnection).	
		Requests for a temporary disconnection and	
		reconnection, requiring a single person crew	NDS 431
		attendance.	
nhanced	Alter/relocate/replace of	Customer request for relocation / alteration or	
onnection	overhead/underground	replacement of an existing overhead or underground	BCS 106
ervices	service	service.	
	Multiphase upgrade -	Provision of an over to under service on an existing low	
	O/under or O/head	voltage stobie pole or an overhead service from an	BCS 109
		existing low voltage stobie pole and the requested number of phases are available.	
	Multiphase upgrade -	Connection provided from an existing suitable low	
	O/under or O/head	voltage service pit / pillar and the requested number of	BCS 110
	-, s	phases are available at the service point.	200 110
	Multiphase upgrade -	Provision of an over to under service on an existing low	
	existing pit/pillar	voltage stobie pole or from an existing service pit/pillar	
		that is located up to 25 metres from the customer's	BCS 111
		property boundary on the same side of the street and	nC3 111
		the requested number of phases are available.	

C.1.2 Quoted services

We provide a range of non-standard services on a quoted basis including:

- access permits, oversight and facilitation;
- sale of approved materials or equipment;
- notices of arrangement and completion notices;
- network safety services (eg high load escorts);
- customer requested planned interruption;
- attendance at a customer's premises to perform a statutory right where access is prevented;
- inspection and auditing services;
- provision of training to third parties for network related access;
- authorisation and approval of third-party service providers' design, work and materials;
- customer initiated or triggered network asset relocations / re-arrangements;
- customer requested provision of electricity network data;
- third party funded network alterations or other improvements;
- auxiliary metering services (type 5 7 metering installations);
- meter recovery and disposal type 5 and 6 (legacy meters);
- emergency maintenance of failed metering equipment not owned by SA Power Networks;
- standard and negotiated connection services (premises connections, excluding extensions and augmentations);
- connection application and management services (eg, connection point alterations, temporary supply, technical / engineering studies, specification fees, specification re-compliance, works / design compliance / network infrastructure connection re-appointments, and pole top disconnections / reconnections);
- enhanced connection services (large embedded generators (>200kW)); and
- public lighting, including LED cleaning where cleaning required prior 10 year scheduled clean.

C.1.3 Quoted services formula

We propose to apply the following formula for our quoted services:

Price = Labour + Contractor Services + Materials + Margin

Where:

Labour consists of all labour costs directly incurred in the provision of the service which may include labour on-costs, fleet on-costs, and overheads. Proposed labour rates are set out in section C.1.4 below.

Contractor Services reflect all costs associated with the use of the external labour including overheads and any direct costs incurred. The contracted services charge applies the rates under existing contractual arrangements. Direct costs incurred are passed on to the customer.

Materials reflect the cost of materials directly incurred in the provision of the service, material on-costs and overheads.

Margin is equal to 6 per cent of the total costs of labour, contractor services and materials.

C.1.4 Quoted service labour rates

Proposed labour rates applicable for quoted services are contained in Table 17A-14. Overtime rates will be applicable to all after hours work.

Table 17A-14: Proposed labour rates applicable tocomponents for quoted charges (\$June 2020)

Labour Code	Description		
Admin	Administrative Officer		
PM	Project Manager		
FW	Field Worker		
Tech	Technical Specialist		
Eng	Engineer		
SEng	Senior Engineer		
Admin	Administrative Officer -		
OT	Overtime		
PM OT	Project Manager - Overtime		
FW OT	Field Worker - Overtime		
Tech OT	Technical Specialist -		
	Overtime		
Eng OT	Engineer - Overtime		
SEng OT	Senior Engineer - Overtime		

C.2 Metering services price component schedule

Indicative price schedule for legacy metering services - effective from 1 July 2020

SA Power Networks will charge a legacy metering service charge for all NMIs where we provide legacy metering services. Charges will be applied as a fixed daily charge on a 'per NMI' basis.

There are four different combinations of legacy metering service charges possible:

- Existing customers using SA Power Networks' meters that were installed prior to 1 July 2015 These customers continue to pay the capital and non-capital charges;
- Existing customers using SA Power Networks' meters that were installed after 1 July 2015 These customers will have incurred an upfront capital charge and will continue to pay the non-capital charge;
- Existing customers using SA Power Networks' meters at 30 June 2015 with meters subsequently replaced by 3rd party meters These customers will continue to pay the capital charge and will cease paying the non-capital charge. This will apply to all metering upgrades and replacements undertaken by retailers under metering contestability arrangements post December 2017; and
- New customers¹⁴ after 1 July 2015 with 3rd party meters installed These customers are not liable for any annual metering charges to SA Power Networks. From December 2017 (metering contestability commencement), where a new customer connects to the network the retailer will arrange metering.

Table 17A-15: Proposed annual metering service charges (\$nominal) components

Legacy metering	Non-capital
service charge	Capital
	Non-capital and capital

¹⁴ I.e. new connection to the distribution network

C.3 Public Lighting price component schedule

Table 17A-16: Proposed Aannual public lighting charges components – LED lights (\$June 2020)

able 1/A-10		Code	nting charges <u>components</u> –
Category	Service Description	Code	Light
All Lights	Energy Only		All lights
P	<u> </u>	LED17	Sylvania StreetLED 17W
Category		LED29	Sylvania StreetLED 25W
0,		LED22	Sylvania StreetLED 18W
			Advanced Edge40 D350P
		LED46	46W
		LED43	Pecan SAT-48S 44W
		LED17	Kensington 17W PT
		PT	_
		LED35	Pecan NXT-24S 450 35W
		LED39	Alt Ledway 30 D350 39W
		LED26	Alt Ledway 20 D350 26W
		LED20	Pecan NXT-12S 525 20W
	0.55	LED28	Pecan NXT-24S 350 29W
	CLER	LED23	Bourke Hill 22W LED
		PT	
			StreetLED 17W Mk3 (inc.
		LED16	SAPNS)
		LED24	StreetLED 24W Mk3
		LED18	B2001 PT 17W Neo
		PT	520011117441460
		LED19	B2001 PT 17W Shade
		PT	520011117W 3Hddc
		LED32	B2001 PT 34W Neo
		PT	220011101111100
		LED33	B2001 PT 34W Shade
		PT	22002: 1 0 111 0
		LED17	Sylvania StreetLED 17W
		LED29	Sylvania StreetLED 25W
		LED22	Sylvania StreetLED 18W
			Advanced Edge40 D350P
		LED46	46W
		LED43	Pecan SAT-48S 44W
		LED17	Kensington 17W PT
		PT	J
		LED35	Pecan NXT-24S 450 35W
		LED39	Alt Ledway 30 D350 39W
		LED26	Alt Ledway 20 D350 26W
		LED20	Pecan NXT-12S 525 20W
	51.0	LED28	Pecan NXT-24S 350 29W
	PLC	LED23	Bourke Hill 22W LED
		PT	
			StreetLED 17W Mk3 (inc.
		LED16	SAPNS)
		LED24	StreetLED 24W Mk3
		LED18	B2001 PT 17W Neo
		PT	
		LED19	B2001 PT 17W Shade
		PT	
		LED32	B2001 PT 34W Neo
		PT	
		LED33	B2001 PT 34W Shade
		PT	
		LED17	Sylvania StreetLED 17W
		LED29	Sylvania StreetLED 25W
	TFI	LED23	Sylvania StreetLED 18W
	111	LED22	Advanced Edge40 D350P
		LED40	46W
			→ ∪ v v

Category	Service Description	Code	Light
	•	LED43	Pecan SAT-48S 44W
		LED17	Kensington 17W PT
		PT	
		LED35	Pecan NXT-24S 450 35W
		LED39	Alt Ledway 30 D350 39W
		LED26	Alt Ledway 20 D350 26W
		LED20	Pecan NXT-12S 525 20W
		LED28	Pecan NXT-24S 350 29W
		LED23 PT	Bourke Hill 22W LED
		LED16	StreetLED 17W Mk3 (inc. SAPNS)
		LED24	StreetLED 24W Mk3
		LED18	B2001 PT 17W Neo
		PT	
		LED19	B2001 PT 17W Shade
		PT	
		LED32	B2001 PT 34W Neo
		PT	
		LED33	B2001 PT 34W Shade
		PT	
		LED17	Sylvania StreetLED 17W
		LED29	Sylvania StreetLED 25W
		LED22	Sylvania StreetLED 18W
		LED46	Advanced Edge40 D350P
			46W
		LED43	Pecan SAT-48S 44W
		LED17	Kensington 17W PT
		PT	-
		LED35	Pecan NXT-24S 450 35W
		LED39	Alt Ledway 30 D350 39W
		LED26	Alt Ledway 20 D350 26W
		LED20	Pecan NXT-12S 525 20W
	CADNI	LED28	Pecan NXT-24S 350 29W
	SAPN	LED23	Bourke Hill 22W LED
		PT	
		LED16	StreetLED 17W Mk3 (inc. SAPNS)
		LED24	StreetLED 24W Mk3
		LED18 PT	B2001 PT 17W Neo
		LED19	B2001 PT 17W Shade
		PT	
		LED32 PT	B2001 PT 34W Neo
		LED33	B2001 PT 34W Shade
		PT	
V		LED200	Pecan SAT-96M 200W
Category		LED105	Aldridge LED 105W
- ,		LED198	Aldridge LED 198W
		LED88	Alt Ledway 40 D700 88W
		LED70	Advanced Edge40 D525P
			70W
		LED150	A1 Insights 150W
	CLER	LED130	Advanced Edge40 D700
			88W
		LED72	Pecan SAT-48S 72W
		LED117	Pecan NXT-72M 117W
		LED4E0	Docan NVT 72N/ 1EQN/
		LED158	Pecan NXT-72M 158W
		LED158	Aldridge ALS216 298W

Category	Service Description	Code	Light
	•	LED175	Sylvania RoadLED 175W
		LED79	Pecan NXT-72M 350 78W
		LED80	Sylvania RoadLED 80W
		LED60	Sylvania RoadLED 60W
		LED155	
		TM	Parkville 155W
		LED81	
		TM	Parkville 80W
		LED101	
		TM	Parkville 100W
		LED58	RoadLED Midi 60W
		LED78	RoadLED Midi 80W
		LED151	RoadLED Midi 150W
		LED180	Kanon 180W Flood
		F	
		LED360 F	Kanon 2x180W Flood
		LED200	Pecan SAT-96M 200W
		LED105	Aldridge LED 105W
		LED103	Aldridge LED 198W
		LED88	Alt Ledway 40 D700 88W
		LED70	Advanced Edge40 D525P
		•	70W
		LED150	A1 Insights 150W
		LED90	Advanced Edge40 D700
		LED72	88W
		LED72 LED117	Pecan SAT-48S 72W
		LED117	Pecan NXT-72M 117W Pecan NXT-72M 158W
		LED138	Aldridge ALS216 298W
		LED178	Pecan SAT-96M 178W
		LED175	Sylvania RoadLED 175W
	PLC	LED779	Pecan NXT-72M 350 78W
	. 20	LED80	Sylvania RoadLED 80W
		LED60	Sylvania RoadLED 60W
		LED155	
		TM	Parkville 155W
		LED81	
		TM	Parkville 80W
		LED101	
		TM	Parkville 100W
		LED58	RoadLED Midi 60W
		LED78	RoadLED Midi 80W
		LED151	RoadLED Midi 150W
		LED180	Kanon 180W Flood
		F	
		LED360	Kanon 2x180W Flood
		F 150200	Docan CAT OCAA 2001A/
		LED200	Pecan SAT-96M 200W
		LED105	Aldridge LED 105W Aldridge LED 198W
		LED198	
		LED88 LED70	Alt Ledway 40 D700 88W Advanced Edge40 D525P
			70W
	TFI	LED150	A1 Insights 150W
		LED90	Advanced Edge40 D700 88W
		LED72	Pecan SAT-48S 72W
		LED117	Pecan NXT-72M 117W
		LED158	Pecan NXT-72M 158W
		LED298	Aldridge ALS216 298W
			<u> </u>

Category	Service Description	Code	Light
	•	LED178	Pecan SAT-96M 178W
		LED175	Sylvania RoadLED 175W
		LED79	Pecan NXT-72M 350 78W
		LED80	Sylvania RoadLED 80W
		LED60	Sylvania RoadLED 60W
		LED155	•
		TM	Parkville 155W
		LED81	
		TM	Parkville 80W
		LED101	
		TM	Parkville 100W
		LED58	RoadLED Midi 60W
		LED78	RoadLED Midi 80W
		LED151	RoadLED Midi 150W
		LED180	Kanon 180W Flood
		LED360	Kanon 2x180W Flood
		F	
		LED200	Pecan SAT-96M 200W
		LED105	Aldridge LED 105W
		LED198	Aldridge LED 198W
		LED88	Alt Ledway 40 D700 88W
		LED70	Advanced Edge40 D525P
			70W
		LED150	A1 Insights 150W
		LED90	Advanced Edge40 D700
			88W
		LED72	Pecan SAT-48S 72W
		LED117	Pecan NXT-72M 117W
		LED158	Pecan NXT-72M 158W
		LED298	Aldridge ALS216 298W
		LED178	Pecan SAT-96M 178W
		LED175	Sylvania RoadLED 175W
	SAPN	LED79	Pecan NXT-72M 350 78W
		LED80	Sylvania RoadLED 80W
		LED60	Sylvania RoadLED 60W
		LED155	
		TM	Parkville 155W
		LED81	
		TM	Parkville 80W
		LED101	
		TM	Parkville 100W
		LED58	RoadLED Midi 60W
		LED78	RoadLED Midi 80W
		LED151	RoadLED Midi 150W
		LED180 F	Kanon 180W Flood
		LED360	Kanon 2x180W Flood

<u>Table 17A-17: Proposed aAnnual public lighting charges components</u> - HID lights (\$June)

Category	Service Description	Code	Light
	Energy Only		All lights
Р		F42	Compact Fluorescent-42
Category		F14x2	Fluorescent 2x14
		F2x8	Fluorescent 2x8
	CLER	F32	Compact Fluorescent 32
		PT F42	Compact Fluorescent 42 –
			Post Top
		F11X2	Fluorescent 11x2

Cohe	Service	Code	1 taka
Category	Description		Light
		F20	Fluorescent 20
		F2X20	Fluorescent 2x20
		F2X40	Fluorescent 2x40
		F40	Fluorescent 40
		F40X3	Fluorescent 3x40
		F40X4	Fluorescent 4x40
		F8X2	Fluorescent 8x2
		1100	Incandescent 100
		M50	Mercury 50
		M70	Mercury 70
		M80	Mercury 80
		PT M50	Mercury 50 – Post top
		PT M80	Mercury 80 – Post top
		S50	High pressure sodium 50
		L18 L26	Sodium 18 LP Sodium 26 LP
		PT L18	Sodium 18 LP – Post top
		MH100	Metal Halide 100
		MH125	Metal Halide 125
		MH150	Metal Halide 150
		MH250	Metal Halide 250
		MH400	Metal Halide 400
		MH50	Metal Halide 50
		MH70	Metal Halide 70
		PT	Metal Halide 100 – Post top
		MH100	
		PT S70	Sodium 70 – Post top
		S70	Sodium 70
		PT S50	Sodium 50 – Post top
		F32	Compact Fluorescent 32
	PLC	PT F42	Compact Fluorescent 42 –
			Post Top
		F32	Compact Fluorescent 32
	TFI	PT F42	Compact Fluorescent 42 –
			Post Top
		F42	Compact Fluorescent-42
		F14x2	Fluorescent 2x14
		F2x8	Fluorescent 2x8
		F32	Compact Fluorescent 32
		PT F42	Compact Fluorescent 42 –
		11142	·
		F11V2	Post Top Fluorescent 11v2
		F11X2	Fluorescent 11x2
		F20	Fluorescent 11x2 Fluorescent 20
		F20 F2X20	Fluorescent 11x2 Fluorescent 20 Fluorescent 2x20
		F20 F2X20 F2X40	Fluorescent 11x2 Fluorescent 20 Fluorescent 2x20 Fluorescent 2x40
		F20 F2X20 F2X40 F40	Fluorescent 11x2 Fluorescent 20 Fluorescent 2x20 Fluorescent 2x40 Fluorescent 40
		F20 F2X20 F2X40 F40 F40X3	Fluorescent 11x2 Fluorescent 20 Fluorescent 2x20 Fluorescent 2x40 Fluorescent 40 Fluorescent 3x40
	SLUOS	F20 F2X20 F2X40 F40 F40X3 F40X4	Fluorescent 11x2 Fluorescent 20 Fluorescent 2x20 Fluorescent 2x40 Fluorescent 40 Fluorescent 3x40 Fluorescent 4x40
	SLUOS	F20 F2X20 F2X40 F40 F40X3 F40X4 F8X2	Fluorescent 11x2 Fluorescent 20 Fluorescent 2x20 Fluorescent 2x40 Fluorescent 40 Fluorescent 3x40 Fluorescent 4x40 Fluorescent 8x2
	SLUOS	F20 F2X20 F2X40 F40 F40X3 F40X4 F8X2 I100	Fluorescent 11x2 Fluorescent 20 Fluorescent 2x20 Fluorescent 2x40 Fluorescent 40 Fluorescent 3x40 Fluorescent 4x40 Fluorescent 8x2 Incandescent 100
	SLUOS	F20 F2X20 F2X40 F40 F40X3 F40X4 F8X2	Fluorescent 11x2 Fluorescent 20 Fluorescent 2x20 Fluorescent 2x40 Fluorescent 40 Fluorescent 3x40 Fluorescent 4x40 Fluorescent 8x2
	SLUOS	F20 F2X20 F2X40 F40 F40X3 F40X4 F8X2 I100	Fluorescent 11x2 Fluorescent 20 Fluorescent 2x20 Fluorescent 2x40 Fluorescent 40 Fluorescent 3x40 Fluorescent 4x40 Fluorescent 4x2 Incandescent 100 Mercury 50 Mercury 70
	SLUOS	F20 F2X20 F2X40 F40 F40X3 F40X4 F8X2 I100 M50	Fluorescent 11x2 Fluorescent 20 Fluorescent 2x20 Fluorescent 2x40 Fluorescent 40 Fluorescent 3x40 Fluorescent 4x40 Fluorescent 4x2 Incandescent 100 Mercury 50 Mercury 70 Mercury 80
	SLUOS	F20 F2X20 F2X40 F40 F40X3 F40X4 F8X2 I100 M50 M70	Fluorescent 11x2 Fluorescent 20 Fluorescent 2x20 Fluorescent 2x40 Fluorescent 40 Fluorescent 3x40 Fluorescent 4x40 Fluorescent 4x2 Incandescent 100 Mercury 50 Mercury 70
	SLUOS	F20 F2X20 F2X40 F40 F40X3 F40X4 F8X2 I100 M50 M70 M80	Fluorescent 11x2 Fluorescent 20 Fluorescent 2x20 Fluorescent 2x40 Fluorescent 40 Fluorescent 3x40 Fluorescent 4x40 Fluorescent 4x2 Incandescent 100 Mercury 50 Mercury 70 Mercury 80
	SLUOS	F20 F2X20 F2X40 F40 F40X3 F40X4 F8X2 I100 M50 M70 M80 PT M50	Fluorescent 11x2 Fluorescent 20 Fluorescent 2x20 Fluorescent 2x40 Fluorescent 40 Fluorescent 3x40 Fluorescent 4x40 Fluorescent 4x40 Fluorescent 100 Mercury 50 Mercury 70 Mercury 80 Mercury 50 – Post top
	SLUOS	F20 F2X20 F2X40 F40 F40X3 F40X4 F8X2 I100 M50 M70 M80 PT M50 PT M80	Fluorescent 11x2 Fluorescent 20 Fluorescent 2x20 Fluorescent 2x40 Fluorescent 40 Fluorescent 3x40 Fluorescent 4x40 Fluorescent 8x2 Incandescent 100 Mercury 50 Mercury 70 Mercury 80 Mercury 50 – Post top Mercury 80 – Post top
	SLUOS	F20 F2X20 F2X40 F40 F40X3 F40X4 F8X2 I100 M50 M70 M80 PT M50 PT M80 S50 L18	Fluorescent 11x2 Fluorescent 20 Fluorescent 2x20 Fluorescent 2x40 Fluorescent 40 Fluorescent 3x40 Fluorescent 4x40 Fluorescent 8x2 Incandescent 100 Mercury 50 Mercury 70 Mercury 80 Mercury 50 – Post top Mercury 80 – Post top High pressure sodium 50 Sodium 18 LP
	SLUOS	F20 F2X20 F2X40 F40 F40X3 F40X4 F8X2 I100 M50 M70 M80 PT M50 PT M80 S50 L18 L26	Fluorescent 11x2 Fluorescent 20 Fluorescent 2x20 Fluorescent 2x40 Fluorescent 40 Fluorescent 3x40 Fluorescent 4x40 Fluorescent 8x2 Incandescent 100 Mercury 50 Mercury 70 Mercury 80 Mercury 50 – Post top Mercury 80 – Post top High pressure sodium 50 Sodium 18 LP Sodium 26 LP
	SLUOS	F20 F2X20 F2X40 F40 F40X3 F40X4 F8X2 I100 M50 M70 M80 PT M50 PT M80 S50 L18	Fluorescent 11x2 Fluorescent 20 Fluorescent 2x20 Fluorescent 2x40 Fluorescent 40 Fluorescent 3x40 Fluorescent 4x40 Fluorescent 8x2 Incandescent 100 Mercury 50 Mercury 70 Mercury 80 Mercury 50 – Post top Mercury 80 – Post top High pressure sodium 50 Sodium 18 LP

_	Service	Code	
Category	Description		Light
		MH150	Metal Halide 150
		MH250	Metal Halide 250
		MH400	Metal Halide 400
		MH50	Metal Halide 50
		MH70	Metal Halide 70
		PT	Metal Halide 100 – Post top
		MH100	·
		PT S70	Sodium 70 – Post top
		S70	Sodium 70
		PT S50	Sodium 50 – Post top
V		M100	Mercury 100
Category		M125	Mercury 125
category			
		M125X3	Mercury 125x3
		M250	Mercury 250
		M400	Mercury 400
		M400X2	Mercury 400x2
		PT	Mercury 125 – Post top
		M125	
		PT S100	Sodium 100 – Post top
		S100	Sodium 100
		PT S150	Sodium 150 – Post top
		S150	Sodium 150
		S250	Sodium 250
		S400	Sodium 400
		L135	Low Pressure Sodium 135
	CLER	L55	Low Pressure Sodium 55
		L90	Low Pressure Sodium 90
		11000 F	Incandescent Flood 1000
		1150 F	Incandescent Flood 150
			Incandescent Flood 1500
		11500 F	
		1500 F	Incandescent Flood 500
		1750 F	Incandescent Flood 750
		M1000 F	Mercury Flood 1000
		M250 F	Mercury Flood 250
		M400 F	Mercury Flood 400
		M750 F	Mercury Flood 750
		M80 F	Mercury Flood 80
		S360 F	Sodium Flood 360
		S400 F	Sodium Flood 400
		M100	Mercury 100
		M125	Mercury 125
		M125X3	Mercury 125x3
		M250	Mercury 250
		M400	Mercury 400
		M400X2	Mercury 400x2
		PT	Mercury 125 – Post top
		M125	
		PT S100	Sodium 100 – Post top
		S100	Sodium 100
	SLUOS	PT S150	Sodium 150 – Post top
		S150	Sodium 150
		S250	Sodium 250
		S400	Sodium 400
		L135	Low Pressure Sodium 135
		L55	Low Pressure Sodium 55
		L90	Low Pressure Sodium 90
		11000 F	Incandescent Flood 1000
		1150 F	Incandescent Flood 150
		I1500 F I500 F	Incandescent Flood 1500 Incandescent Flood 500

Category	Service Description	Code	Light
		1750 F	Incandescent Flood 750
		M1000	Mercury Flood 1000
		F	
		M250 F	Mercury Flood 250
		M400 F	Mercury Flood 400
		M750 F	Mercury Flood 750
		M80 F	Mercury Flood 80
		S360 F	Sodium Flood 360
		S400 F	Sodium Flood 400

Glossary

Abbreviation	Definition or description
ACS	Alternative control services
AER	Australian Energy Regulator
AEMO	Australian Energy Market Operator
AEMC	Australian Energy Market Commission
Augmentation	Investment in new network assets to meet increased demand.
BD	Business actual demand
B2R	Small business two-rate
BSR	Small business single-rate
ВТОИ	Business time of use
Capacity	The amount of electrical power that a part of the network is able to carry.
Capital Contributed Works	Works for which the customer(s) contribute towards the cost of supplying
capital contributed works	assets, typically because they are the sole users.
CBD	Central business district
COAG	Council of Australian Governments
Contestability	Customer choice of electricity or related service supplier.
Controlled Load	The DNSP controls the hours in which the supply is made available.
	,,,,
Cost of Supply Model	Theoretical and algorithmic model used to calculate prices, which conform
Cross subside	to the pricing goals.
Cross subsidy	Where the price to a tariff class falls outside the range between the
	avoidable incremental cost of supply and the cost of stand-alone supply, an
CCIDO	economic cross subsidy from or to other customers is said to exist.
CSIRO	Commonwealth Scientific and Industrial Research Organisation
СТ	Current Transformer – used in metering high voltage customers
Demand	Electricity consumption at a point in time.
Demand Management	Attempt to modify customer behaviour so as to constrain customer
	demand at critical times.
DER	Distributed Energy Resources, such as solar
Distribution Network	The assets and service which links energy customers to the transmission
	network.
Distributor, DNSP	Distribution Network Service Provider
DUoS	Distribution Use of System. The utilisation of the distribution network in
	the provision of electricity to consumers (a component of NUoS).
DAPR	Distribution Annual Planning Report
ESCoSA	Essential Services Commission of South Australia, a South Australian
	Regulator of energy and other infrastructure.
ESOO	Electricity Statement of Opportunities – prepared by the Australian Energy
	Market Operator
EV	Electric vehicle
EWOSA	Energy and Water Industry Ombudsman of South Australia
FiT	Feed-in Tariff paid to customers that have solar generators.
FRMP	Financially Responsible Market Participant
GSL	Guaranteed Service Level
GWh	Gigawatt hours (a thousand-megawatt hours or a million-kilowatt hours)
HBD	Large business HV actual monthly demand
HV/High Voltage	Equipment or supplies at voltages of 7.6kV or 11kV
	Tariff: large business annual agreed demand
HV400	Large business HV annual agreed demand <400 kVA
IBT, Inclining Block Tariff	A network tariff energy rate in which the rate increases above specific
, : 0 2	consumption thresholds.
JSA	Jurisdictional Scheme Amount, a component of the Network Use of System
	charge to fund Feed-in Tariff payments to customers that have solar generators.

Abbreviation	Definition or description
kVA, MVA	Kilo-volt amps and Mega-volt amps, units of apparent total electrical power
	demand. Usually the peak demand is referenced. See also PF for the
	relationship between power demand quantities.
kVAr, MVAr	Kilo-volt amps (reactive) and Mega-volt amps (reactive) units of
	instantaneous reactive electrical power demand. Usually the peak demand
	is referenced. See also PF for the relationship between power demand
	guantities.
kW, MW	Kilo-watts and Mega-watts, units of instantaneous real electrical power
	demand. Usually the peak demand is referenced. See also PF for the
	relationship between power demand quantities.
kWh, MWh	Kilo-watt hours and Mega-watt hours, units of electrical energy
	consumption
LB2R	Large business two-rate
LBSR	Large business single-rate
LV/Low Voltage	Equipment or supply at a voltage of 230V single phase or 400V, three phas
	Tariff: LV annual demand
LV 1000	Business tariffs - annual demand with more than 1000 kVA
LRMC	Long run marginal cost
Marginal Cost	The cost of providing a small increment of service – the Long Run Marginal
	Cost (LRMC) includes future investment, Short Run Marginal Cost (SRMC)
	considers only the costs involved without extra investment
Market Participant	Businesses involved in the electricity industry are referred to as Market or
	Code Participants
MD	Maximum Demand
Supply Rate	The fixed daily cost component of a Network price
NEL	National Electricity Law
NEM	National Electricity Market
NER	National Electricity Rules
NUoS	Network Use of System – the utilisation of the total electricity network in
	the provision of electricity to consumers (NUOS = DUOS + TUOS + PV FiT).
NMI	National metering identifier
NWD	A non-work day, Saturday and Sunday
OPCL	Off-peak Controlled Load (includes electric hot water systems)
	Operating expenditure
Opex	
POE	%POE refers to the forecasting scenario as a percentage Probability of
DV F:T	Exceeding the forecast proposed
PV FiT	Solar Photo Voltaic Feed-in Tariff
PVNSG	Solar PV – non-scheduled generator – a commercial solar installation
DF.	designed to inject power into the network rather than for self-consumption
PF	Power Factor, a measure of the ratio of real power to total power of a load.
	The relationship between real, reactive and apparent power is as follows:
	Power Factor = Real Power (kW) / Apparent Power (kVA)
D.C. C I	Apparent Power (kVA) = $\sqrt{\text{Real Power (kW)}^2 + \text{Reactive Power (kVAr)}^2}$
Price Signal	Prices set to convey a desired behaviour because of the costs associated
Dries Structure	with supplying the service.
Price Structure	The components that make up a Price available to customers.
RCP	Regulatory Control Period (usually 5 years)
RSR	Residential Supply Rate
Retailer	A Full Retail Contestability market participant (business) supplying
	electricity to customers.
RTOU	Residential time-of-use
RPRO Dulas	Residential Prosumer
Rules	National Electricity Rules
SBD	Small business actual demand
SBDT	Small business actual demand transition
SCS	Standard control service

Abbreviation	Definition or description
SLV	Small business agreed demand
Sub-transmission	Equipment or supplies at voltage levels of 33kV or 66 kV
SWER	Single wire earth return
Tariff	Network price components and conditions of supply for a tariff class
Tariff class	A class of customers for one or more direct control services who are subject to a particular tariff or particular tariffs with similar electricity demand and usage requirements
ToU	Time-of-Use, a system of pricing where energy or demand charges are higher in periods of peak utilisation of the network
Transmission Network	The assets and service that enable generators to transmit their electrical energy to population centres. Operating voltage of equipment is 275kV and 132kV with some at 66kV
TSS	Tariff structure statement
TUoS	Transmission Use of System charges for the utilisation of the transmission network
Unmetered supply	A connection to the distribution system which is not equipped with a meter and has estimated consumption. Connections to public lights, phone boxes, traffic lights and the like are not normally metered
VPP	Virtual power plant
WD	A work day, Monday through to Friday excluding public holidays