



***POWER AND WATER CORPORATION***

***POWER SERVICES***

***Network Pricing Proposal***

***2021-22***

***31 March 2021***

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## Power and Water Corporation: Power Services 2021-22 Network Pricing Proposal

### SUMMARY

Power and Water Corporation (Power and Water) is pleased to submit our 2021-22 Network Pricing Proposal to the Australian Energy Regulator (AER) and our stakeholders. This document sets out Power and Water's proposed network tariffs for our regulated customers. This includes tariffs for standard control services and for alternative control services.

Power and Water's total allowable revenue in 2021-22 is 8.2 per cent (about \$11.9 million) less than 2020-21. This has the following implications for our network tariffs:

- In 2021-22, our customers will save on their network bill compared to 2020-21 as we pass through the reduced revenue requirements.
- We are able to pursue the tariff re-balancing strategy outlined in our AER approved Tariff Structure Statement (TSS) while maintaining downward pressure on prices for the outer years of this regulatory period.
- Our strategy for 2021-22 is to collect a greater proportion of revenue through stable fixed charges, such as daily system access control.
- There are increased opportunities for longer term customer benefits through reduced network expenditure to the extent that more efficient pricing structures lead to changes in behavior.

### Bill impacts and Engagement

Table 1 below sets out the proposed change in the network bill between 2020-21 and 2021-22 for typical customers connected to Power and Water's regulated network. The table shows that there will continue to be a saving in the network bill in 2021-22. These impacts do not take into account changes in generation, retail, system control, and market operator charges.

**Table 1: Change in a typical customer's network bill between 2020-21 and 2021-22**

Customer Type	Network Bill		Bill Movement	
	2020-21	2021-22	\$	%
Small Residential - average energy - Accumulation Meter (8500 kWh pa)**	1,122	1,019	(103)	(9%)
Small Residential - average energy - Smart Meter (8500 kWh pa)**	1,096	1,062	(33)	(3%)
Large Residential Accumulation Meter (15,000 kWh pa)**	1,674	1,491	(184)	(11%)
Large Residential Smart Meter (15,000 kWh pa)**	1,465	1,407	(59)	(4%)
Non-Residential Accumulation Meter (30,000 kWh pa)**	3,319	3,011	(308)	(9%)
LV Smart Meter (30,000 kWh pa) (non-residential)**	2,320	2,206	(114)	(5%)
Industrial (1,000,000 kWh pa - LV)	92,737	83,029	(9,708)	(10%)
Large Industrial (6,000,000 kWh pa - HV)	266,489	232,446	(34,043)	(13%)

\*Includes ACS metering charge

\*\* Currently the customer has retail price protection under the Northern Territory Government's Electricity Pricing Order

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Currently, customers who consume less than 750MWh per annum are subject to retail price protection under the Northern Territory Government Electricity Pricing Order (NT Pricing Order)<sup>1</sup>. This covers households and small to medium sized businesses. We anticipate that the Pricing Order will continue into 2021-22, meaning that changes in Power and Water's network tariffs in 2021-22 will not impact their retail electricity bills.

Retail pricing across the Northern Territory were frozen at the previous year's (2019-20) rates for the current period (2020-21). Once approval is received for our 2021-22 prices we will engage with Northern Territory Government to verify their intentions for the NT Pricing Order covering 2021-22. Power and Water will also engage with licenced retailers serving these customers.

Our major energy customers consuming above 750MWh per annum are not currently protected by the Pricing Order. While relatively small in number, these customers account for approx. 21% of the total amount of revenue recovered. Their retailers directly pass through network charges as a separate line item in their retail bills. The changes in Power and Water's 2021-22 tariff rates would directly impact these customers. We have been mindful of the need to pass through savings for these customers, while still pursuing tariff reform. By directing savings to our major customers, Power and Water is attempting to support our major customers through current economic conditions, as well as support the larger NT economic recovery by the COVID-19 pandemic.

As in all other states and Territories, the Northern Territory has been hit by the significant downturn across the tourism and mining sectors. The mining industry in particular has seen most major mining operations move into 'care and maintenance' mode. In addition, the hospitality sector has seen significant reductions in consumption across accommodation facilities, including major hotels, backpacker resorts and entertainment venues due to international and domestic travel restrictions including state wide lockdowns.

Figure 1 shows the percentage change in network prices for each of our major customers in 2021-22 compared to 2020-21, assuming no change in consumption, demand or metering installations. On average our major customers will have an 11 per cent reduction in their network bill, with reductions ranging between 7 and 14 per cent (including inflation of 0.86 per cent).

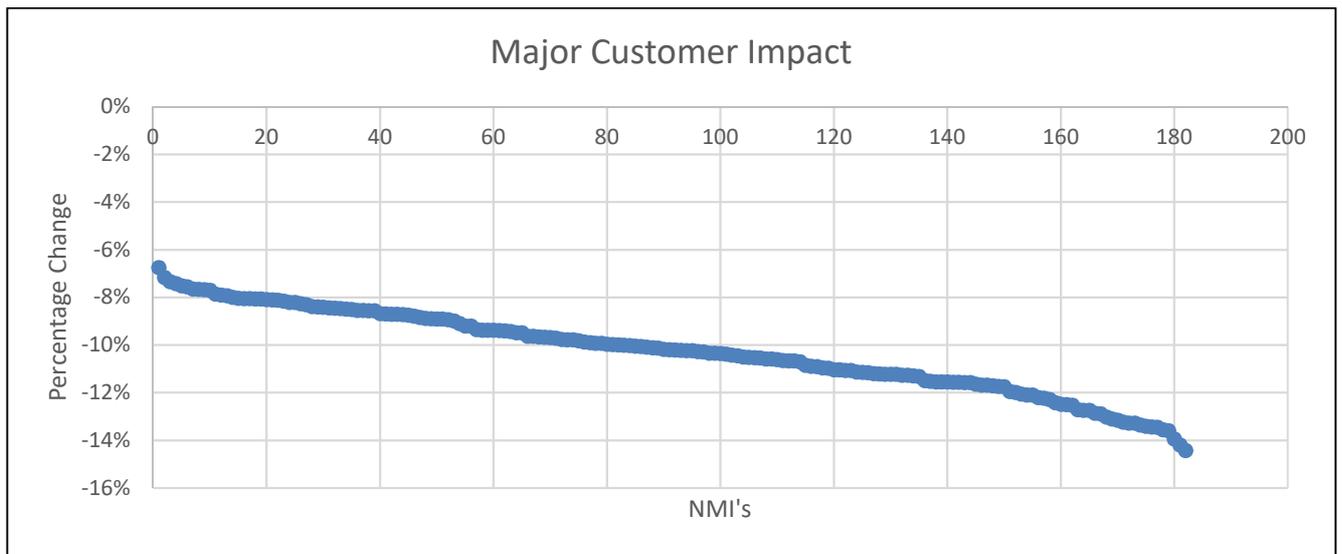
Power and Water's account managers are involved regularly with our major customers. Our process to finalising prices includes informing major customers and their retailers of proposed changes. We will work with all major customers and their retailers on identifying additional opportunities to reduce network bills, for example by helping customers shift energy usage to off-peak periods.

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<sup>1</sup> [Electricity retail pricing | Utilities Commission \(nt.gov.au\)](https://www.nt.gov.au/energy-and-water/energy/retail-pricing/)

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Figure 1: Percentage change in network bill of major customers between 2020-21 and 2021-22



### Impact of COVID-19

We noted at the time of submitting our 2020-21 pricing proposal that Power and Water had not made significant adjustments to reflect the emerging impact of COVID-19 on its energy and demand forecasts given the relative uncertainty at the time of its precise impact on future consumption. Our forecasts had already assumed a decline in aggregate consumption and demand reflecting flatter economic growth in the Northern Territory than that projected by AEMO at the time it developed its forecasts, together with customers consuming more energy from their own solar installations.

The emergence of COVID-19 virus in Australia has inflicted hardship on many of our customers. Power and Water remains committed to providing our customers with essential gas, electricity and water services during this global pandemic, and assisting our customers to the full extent possible. We are aware that disruptions to daily activity were much more impactful in other jurisdictions. Impacts were more directed to major industry and tourism where reductions in consumption were already forecast.

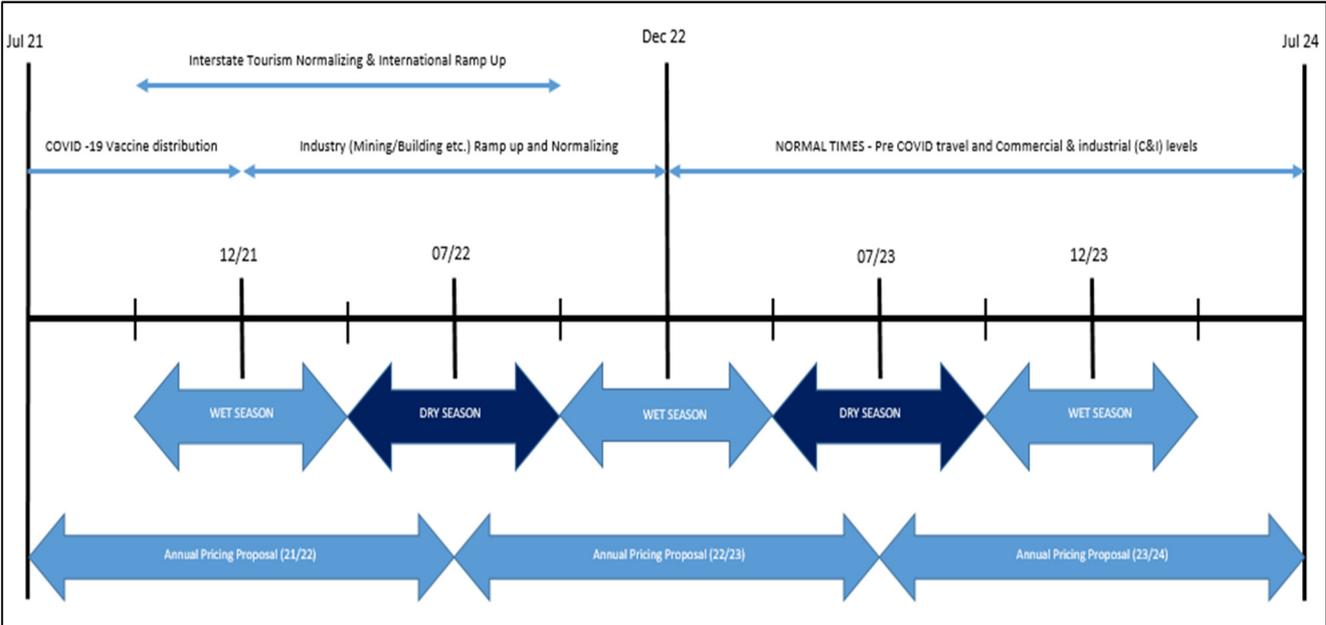
As a result, while we are still expecting a slight decrease in energy consumption, our under-recovery is not expected to be high in 2020-21 (\$1.26 million).

In attempting to incorporate the forward impact of the COVID-19 pandemic on our energy forecasts. Power and Water has taken into account the potential of vaccine being distributed in the quarter four of 2020-21 (from March 2021), which will likely see increased consumption across the mining and hospitality sectors by December 2021. We have also taken into account feedback from our major customers on likely return to service of currently moth-balled areas.

Although we are forecasting a slight increase in consumption for these sectors, a return to normalised economic and pre-COVID consumption levels across the entire regulatory base isn't expected until at least January 2023.

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**Table 2: Power and Water’s expected timeline to return to pre-COVID levels.**



## 1. BACKGROUND

### 1.1. Purpose

Under the Northern Territory National Electricity Rules (NT NER)<sup>2</sup>, we are required to submit a pricing proposal to the Australian Energy Regulator (AER) for approval each year.

This document is Power and Water's 2021-22 annual pricing proposal. It sets out our proposed standard control services (SCS) and alternative control services (ACS) tariffs for 2021-22 and indicative tariffs for the remainder of the 2019-24 regulatory control period. A key purpose of this document is to set out the basis of our proposed tariffs and to demonstrate that we have complied with the relevant provisions of the NT NER and the AER's 2019-24 Distribution Determination. This includes complying with our AER approved TSS.

### 1.2. Network services and pricing regulations

Power and Water delivers energy from power generators to homes and businesses in a safe and reliable way. Our network distribution services comprising our regulated network are classified by the AER as direct control services, meaning they are subject to price or revenue controls.

Our SCS tariffs recover the cost of planning, design, construction, operation and maintenance of the electricity distribution network. This includes restoring power when faults and emergencies occur (as a result of severe weather) as well as other causes beyond our control. Our ACS services cover both our metering and ancillary ("one-off") services provided to specific customers upon request.

We charge retailers for the network services we provide to regulated customers including the tariffs for SCS and ACS. Retailers charge customers for their energy usage and metering. For customers consuming less than 750MWh annually, retailers cannot charge more than the Northern Territory Government Electricity Pricing Order (Pricing Order). We currently expect that the Pricing Order will continue into 2021-22, this means that the change in our network tariffs will not impact these customers.

Our major customers use more than 750MWh annually. These customers are not subject to the Pricing Order and our network charges are directly passed through by retailers to these major customers.

We note that during the COVID-19 pandemic the Northern Territory Government provided relief to consumers through a prize freeze of the NT Pricing Order (consuming below 750 MWh). This was in addition to the AER's *Statement of Expectations of energy businesses* dated 27 March 2020, which focused on:

- proactively meeting the needs of customers, both residential and SMEs in vulnerable circumstances
- protecting consumers who may be unable to safeguard their own interests, including customers requiring life support equipment or who are experiencing financial difficulty
- undertaking actions needed to ensure the safety and reliability of energy supply
- responding to the rapidly evolving pandemic situation, and preparing for our recovery.

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<sup>2</sup> Clause 6.18.2(a) of the NT NER.

### 1.3. Control mechanisms

A control mechanism imposes limits over the prices or revenues that we can recover from customers. The AER Determination applied a revenue cap on SCS. Under a revenue cap, the AER sets maximum revenue that we can recover from customers in a year. Any variation in actual revenue compared to forecast can be recovered or paid back to customers in the subsequent years. Power and Water's pricing proposal must demonstrate compliance with the SCS revenue cap, including accounting for adjustments from under or over recovery in prior years in accordance with the AER Determination.

Price caps apply to our different ACS services. Under a price cap the AER sets a maximum price for each service. The AER sets an initial price for these ACS services which we adjust on an annual basis in our annual network pricing proposal.

### 1.4. Structure of the document

We have structured the remainder of the document as follows:

- Chapter 2 sets out the network tariff classes, tariffs and charging parameters we propose to apply in 2021-22, and also describes our process to assign customers to tariff classes.
- Chapter 3 identifies the key inputs, forecasts and strategies that were used to develop SCS tariffs, and identifies our proposed tariff rates for 2021-22.
- Chapter 4 identifies the key inputs to derive ACS prices for 2021-22, and identifies our price list for metering, quoted and fee based services.
- Chapter 5 seeks to demonstrate our compliance with the NT NER.

All values shown in the proposal are in nominal dollars and exclude goods and services tax (GST), unless otherwise stated. We note that our SCS Pricing Model (Appendix 6) and ACS Pricing Model (Appendix 7) provide the underlying calculations to derive values. They also provide the GST inclusive prices.

## 2. TARIFF STRUCTURES AND ASSIGNMENT

In this section, we describe the tariff structures we propose to apply in 2021-22. A ‘tariff’ is how a customer is charged. A ‘tariff class’ is a grouping of one or more tariffs. The tariff can be made up of different component charges (and associated charging parameters) such as one or more fixed charges, usage charges or demand charges.

This chapter explains the eligibility criteria for each of our network tariff classes and tariffs (section 2.1) the components and charging parameters we apply (Section 2.2), and the assessment process for tariff assignment (section 2.3).

### 2.1. Tariff classes and tariffs

Our tariff classes and tariffs are the same as 2019-20 and 2020-21 and align with our AER approved TSS. This is set out in Table 2. In exceptional circumstances, Power and Water may offer an individually calculated tariff. However, we currently do not have any customers requiring individually calculated tariffs in 2021-22 at this point in time. Customers on Tariff 1,2,3,4 and 6 are subject to retail price protection under the Pricing Order.

**Table 2: Network tariff classes and tariffs**

Tariff class	Tariff	Description of tariffs
LV <750MWh	Tariff 1: Residential Tariff	Residential customers consuming less than 750MWh p.a. per National Meter Identifier with standard accumulation meters
	Tariff 2: Non-residential Tariff	Non-residential customers consuming less than 750MWh p.a. per NMI with standard accumulation meters
	Tariff 3: LV Smart Meter Tariff	Customers consuming less than 750MWh p.a. per NMI with smart meters
	Tariff 4: Unmetered Tariff	Unmetered supply (for street lighting, traffic lights and other unmetered devices)
LV >750MWh	Tariff 5: LV Majors Tariff	Customers connected to the Low Voltage (LV) network consuming greater than 750MWh p.a. per NMI
HV	Tariff 6: HV Minors Tariff	Customers connected to the High Voltage (HV) network consuming less than 750MWh p.a. per NMI
	Tariff 7: HV Majors Tariff	Customers connected to the HV network consuming greater than 750MWh p.a. per customer metering point (NMI <sup>3</sup> )

#### 2.1.1. Low Voltage less than 750MWh Tariff Class

This tariff class comprises four customer tariffs.

The Residential Tariff (Tariff 1) applies to residential customers supplied at a connection point with the following characteristics:

- Total electricity consumption is less than 750MWh per annum per NMI.
- Electricity is supplied at a voltage level defined as LV – nominally 230/400V.

<sup>3</sup> National Metering Identifier

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- The customer is connected to the LV network via an accumulation meter.
- The premises is intended to be used primarily for residential purposes, excluding serviced apartments, but including:
  - electricity used on vacant land zoned for residential (domestic) purposes
  - living premises in retirement villages, which must be separately metered.

The Non-residential Tariff (Tariff 2) is applied to non-residential customers with the following characteristics:

- Total electricity consumption is less than 750MWh per annum per NMI.
- Electricity is supplied at a voltage level defined as LV – nominally 230/400V.
- The customer is connected to the LV network via an accumulation meter.
- The premises is intended to be used for non-residential purposes, including:
  - electricity used on vacant land zoned for commercial purposes
  - temporary supply (i.e. for construction purposes)
  - motels, hotels, serviced apartments and any form of temporary accommodation
  - shops, offices, warehouses and industrial/manufacturing plants
  - mining enterprises and farms.

The LV Smart Meter Tariff (Tariff 3) is applied to customers with the following characteristics:

- Total electricity consumption is less than 750MWh per annum per NMI.
- Electricity is supplied at a voltage level defined as LV – nominally 230/400V.
- The customer is connected to the LV network via a smart meter. Residential and non-residential are treated equally under this tariff.

The Unmetered Tariff (Tariff 4) applies to connection points that with the agreement of Power and Water are unmetered (type 7 metering). In these circumstances, the demand at the connection point is estimated based on the type of device. These SCS tariffs cover the cost of the SCS for common distribution costs (energy delivery) and type 7 metering services (energy estimation and administration).

### *2.1.2. Low Voltage greater than 750MWh*

This tariff class (Tariff 5) solely consists of the LV Majors Tariff, which applies to customers supplied at a connection point where total electricity consumption is greater than 750MWh per annum per NMI, and electricity is supplied at a voltage level defined as LV – nominally 230 to 400V.

### *2.1.3. High Voltage*

The High Voltage tariff class comprises two categories of customers where electricity is supplied at a voltage level of 11 kilovolts (kV) or higher.

The HV Minors Tariff (Tariff 6) applies to customers supplied at a connection point where:

- Total electricity consumption is less than 750MWh per annum per NMI
- Electricity is supplied at a voltage level of 11 kilovolts (kV) or higher.

The HV Majors Tariff (Tariff 7) applies to customers supplied at a connection point where:

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- Total electricity consumption is greater than 750MWh per annum per NMI
- Electricity is supplied at a voltage level of 11 kilovolts (kV) or higher.

### 2.2. Tariff components and charging parameters

Under our AER approved TSS, customers in each tariff are subject to a range of different components to which a charge is applied. This includes a daily system access charge (SAC), an energy charge, and a demand charge for customers with smart meters.

The fixed daily charges per NMI for connection to Power and Water's electricity network is referred to as the SAC. This is separate to the ACS metering charge, which is also a daily charge but applied based on the number of meters installed at the NMI.

All our tariffs include an anytime energy charge and is charged on a \$/ kWh basis, as measured by the customer's meter, with the exception of customers on the Unmetered Tariff. Customers on the Unmetered Tariff are charged an anytime energy charge on a \$/kWh basis, using the device's assumed consumption profile. This tariff applies to streetlights, traffic lights, NBN nodes and security camera's which are connected directly to our network and do not have meters attached to record their usage.

Demand charges encourage reduction in peak consumption. Peak consumption is a major driver of network expenditure and we have based these charges on our estimated Long Run Marginal Cost (LRMC). Demand charges can only be applied to customers with smart meters. Accumulation meters do not collect the information needed to measure demand so that the charges can be applied.

The demand charge is applied to the peak demand within a month, within the peak period. While the peak period is 12pm to 9pm weekdays, which includes public holidays<sup>4</sup> for all customers with a smart meter, there are some differences across tariffs, regarding the months that incorporate the demand charge:

- For customers assigned to the LV Smart Meter (Tariff 3), the demand charge applies between 1 October and 31 March with the rest of the year being off-peak (i.e. 6 months).
- For customers assigned to the LV Majors (Tariff 5), HV Majors Tariffs (Tariff 7) or HV Minors Tariffs (Tariff 6), the demand charge applies across the year (i.e. 12 months).

### 2.3. Tariff assignment process

Power and Water has a two-step process to assign or reassign customers to an appropriate tariff class and tariff. Initially, a customer is assigned a tariff class according to whether they are connected to the LV or HV network. We then consider the customer's historical or expected consumption level and meter type. The customer is then assigned a tariff according to their characteristics and end use as specified against the matching tariff class and tariff eligibility criteria.

A tariff assignment is triggered when one of the following occurs:

- Power and Water undertakes an annual customer review and identifies that the customer may need to be reassigned.

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<sup>4</sup> All other times are off-peak.

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- A smart meter is installed.
- A new customer connects to the network and is allocated a NMI.
- Following a request by a retailer, the customer or their representative.

The tariff assignment will continue to apply until a reassignment is triggered because of a change in the customers load, connection or metering characteristics.

In February 2021, we undertook our second annual review of our customers to determine whether customers were still assigned to the appropriate tariff. On 26 February 2021, we wrote to each retailer notifying them of any proposed changes to apply from 1 July 2021.

### 3. STANDARD CONTROL SERVICES (SCS)

The purpose of this chapter is to identify our process for deriving SCS tariffs in 2021-22. To calculate tariffs, we calculated the total allowed revenue for the period, developed forecasts of energy consumption, demand and customer numbers for the upcoming period, and set tariffs based on our AER approved TSS.

This chapter is structured as follows:

- Section 3.1 sets out the inputs to calculate the total allowable revenue for 2021-22.
- Section 3.2 outlines the 2021-22 forecast for customer numbers, energy consumption and demand for each of our 7 tariff groups.
- Section 3.3 sets out our tariff re-balancing strategy for 2021-22.
- Section 3.4 identifies our proposed tariffs for 2021-22.

#### 3.1. Total allowable revenue

The first step in our process has been to calculate the “total allowed revenue” (TAR) 2021-22. The TAR we calculated for 2021-22 is \$133.9 million (nominal), which is 8.2 per cent less than the 2020-21 TAR of \$145.9 million (nominal) as included in the 2020-21 pricing proposal. The reduction in TAR for 2021-22 is due to a revenue over-recovery in 2019-20 of \$13.5 million (nominal) that is partially offset by under-recoveries in 2017-18, 2018-19 and 2020-21.

The implication of the fall in TAR is that network charges will be lower in 2021-22 compared to 2020-21. A second implication is that we have minimal headroom to progress the tariff strategy contained in our AER approved TSS, while managing bill impacts.

##### 3.1.1. Calculation of total allowable revenue

The AER prescribes the method and formula that we must use to derive the TAR.<sup>5</sup> The TAR formula is:

$$TAR_t = AAR_t + I_t + B_t + C_t$$

The elements are as follows:

- $AAR_t$  is the adjusted annual smooth revenue requirement for year t (i.e.: 2021-22).
- $I_t$  is the sum of incentive scheme adjustment in year t relating to approved demand management incentive scheme (DMIS) amounts from t-2 (i.e.: 2019-20).
- $B_t$  is the sum of annual adjustment factors for year t (i.e.: 2021-22).
- $C_t$  is the sum of approved cost pass through amounts with respect to regulatory year t (i.e.: (2021-22)).

Table 3 applies the TAR formula and sets out where the inputs are sourced from. The SCS Pricing Model (Appendix 6) provides the underlying calculations.

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<sup>5</sup> This is identified in section 13.4.6 of AER’s draft decision (which was retained in the final decision).

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Table 3: 2021-22 SCS Total Allowed Revenue (\$m, nominal)

Input	Value*	Source
Adjusted annual smoothed revenue (AAR <sub>t</sub> )	147.7	The AER's smoothed nominal revenue requirement in 2019-20 was \$141.7 million. Consistent with AER prescribed method we have updated inflation to reflect the December 2019 and December 2020 ABS updates. The inflation rate values are 1.84% and 0.86% respectively. The updated X-factor are -0.88% and -0.59% sourced from the updated Post Tax Revenue Model (PTRM) provided by the AER to Power and Water on 17 March 2021. <sup>6</sup>
DMIS adjustments (I <sub>t</sub> )	0.0	The DMIS reward relates to payments for 2019-20 (ie: t-2).
Annual adjustments (B <sub>t</sub> )	-13.8	We have applied the unders and overs account using the AER's required approach – see section 3.1.2 below. No adjustments have been applied for designated pricing proposal charges or jurisdictional scheme payments. <sup>7</sup>
Cost pass through amounts (C <sub>t</sub> )	0.0	There are no pass through amounts for 2021-22. We have not applied for a cost pass through amount at the time of submitting this pricing proposal.
Total Allowable Revenue (TAR <sub>t</sub> )	133.9	Sum of the above values

\* Numbers have been rounded for presentational purposes. Exact values are included in the SCS Pricing Model (0).

### 3.1.2. Unders and overs

The only annual adjustments applicable to Power and Water in 2021-22 are those relating to reconciling revenue for the revenue cap outcomes in the 2019-20 and 2020-21 regulatory periods. We have calculated a revenue over-recovery of \$30.4 million in 2019-20, which has been offset by the under-recoveries in 2017-18 and 2018-19 of approximately \$14.5 million, in addition to this we have also forecasted a slight under-recovery of \$1.26 million in 2020-21 due to the impact of COVID-19.

The large over recovery in 2019-20 was due to a number of factors, including:

- Significant change in tariff structures from previous year which resulted in incorrect tariff assignments for our LV below 750MWh customers (Tariffs one, two and three).
- Incorrect energy forecasts for our LV below 750MWh customers (Tariffs one, two and three).
- Incorrect demand forecast for our Tariff 3 customers, who prior to 2019-20 had never been charged demand.

<sup>6</sup> The PTRM provided by the AER is the same as that included with its final determination for the 2019–24 period, updated for the 2020-21 and 2021-22 cost of debt observation.

<sup>7</sup> Designated pricing proposal charges are charges related to: designated pricing proposal services (prescribed exit fees, prescribed common transmission services and prescribed transmission use of system services); avoided customer transmission use of system charges; charges provided by another distributor (but only to the extent they comprise of designated pricing proposal services or standard control services); and charges or payments specified in the National Electricity Rules (NER) clause 11.39. Power and Water is unique in Australia because we have no network tariff component relating to the annual recovery of transmission costs. While the AER's TAR formula provides for these in the NT, the values are zero for 2020-21. This means PWC's network charges only comprise a SCS component. Jurisdictional scheme amounts arise where a distributor is required to incur costs under a jurisdictional scheme imposed by a state or territory government. Clause 6.18.7A of the NT NER requires this initial pricing proposal to set out any jurisdictional scheme values. We are currently not subjected to any eligible jurisdictional schemes. While we have a territory based Guaranteed Service Level scheme, this scheme is funded through our operational costs and was considered as part of the determination process.

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Although our initial volume forecasts were under estimated in 2019-20, we have rectified this and as of 31 December 2020 are tracking within 1% of the of our energy and demand forecasts supplied to the AER in our 2020-21 annual pricing proposal.

The calculation of this is shown in Table 4 using the AER's preferred format.

**Table 4: 2021-22 unders and overs account outcome (\$m, nominal)**

	2019-20	2020-21	2021-22
Pricing year	t-2*	t-1**	t
Revenue from SCS	<b>172.1</b>	<b>144.3</b>	<b>134.0</b>
+ Adjusted annual smoothed revenue (AARt)	141.7	145.6	147.7
+ DMIS adjustments (It)	0.0	0.0	0.0
+ Annual adjustments (Bt)	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
+ Cost pass through amounts (Ct)	0.0	0.0	0.0
less allowable revenue for regulatory year	141.7	145.6	147.7
- Revenue deliberately under-recovered in year	0.0	0.0	0.0
<b>Under/over recovery</b>	<b>30.4</b>	<b>-1.3</b>	<b>-13.8</b>
SCS unders and overs account			
Nominal WACC	<b>7.28%</b>	<b>4.21%</b>	<b>3.11%</b>
Opening balance	<b>-16.0</b>	14.3	13.6
Interest on opening balance	<b>-0.7</b>	0.6	0.4
Under/over recovery of revenue for regulatory year	30.4	<b>-1.3</b>	<b>-13.8</b>
Interest on under/over recovery for regulatory year	0.6	<b>-0.0</b>	<b>-0.2</b>
<b>Closing Balance</b>	<b>14.3</b>	<b>13.6</b>	<b>-0.0</b>

\*actual outcome.

\*\*estimate.

Under the AER's revenue cap, revenues in year t are adjusted to true-up any under or over recovery of actual revenue collected through SCS charges in year t-2 and any estimated under or over recovery of revenues in year t-1.

The AER's 2019-24 Distribution Determination allows for interest to be earned or paid back on the unders and overs account variance using the nominal Weighted Average Cost of Capital (WACC). The final decision nominal WACC has been adjusted to reflect actual inflation and updated cost of debt, which reduces the nominal WACC for 2021-22 from 4.88% in the determination to 3.11% with the updates.

### 3.2. Forecast customer numbers, consumption and demand for 2021-22

The second step in our process was to forecast customer numbers (NMIs), energy consumption (kWh), and demand (kVA) for 2021-22 and subsequent years. We are forecasting a 1 per cent reduction in consumption and demand compared to the forecasts we submitted in the 2020-21 pricing proposal. Section 3.2.1 sets out our forecast method, and section 3.2.2 identifies how our forecast has incorporated the impact of COVID-19.

Our forecast method for energy and demand has been developed and verified by comparing two separate data sources. The first is the consumption tracker developed to monitor the total monthly consumption (KVA & kWh) used across our regulated customer base, which identifies trends between actual and forecasted consumption covering 2020-21.

The second source uses actual data obtained from our major customer on Tariff 5 (LV >750MWh), Tariff 6 (HV <750MWh) and Tariff 7 (HV (>750MWh)). Utilizing 30 months of individual smart meter site data for these consumers to support the overall annual consumption trend identified through our tracker, while allowing modifications (where necessary) to be made at an individual tariff levels due to individual major customer movements including customer churn, tariff reassignments and operational consumption reductions. In addition our account management team have continued to engage with major customers to ensure that we have used the latest and most accurate information available.

It should also be noted that in developing our forecasts we utilised both quantitative and qualitative information, however uncertainty still remains regarding the duration and lasting impacts of the COVID-19 pandemic.

Table 5 below summarises our forecast methods.

**Table 5: Method to forecast customer, energy and demand volumes in 2021-22**

Steps	Approach
Step 1 -Estimate 2021-22 data based on 1 July 2018 to 31 December 2020 actual data	For customers with consumption above 750MWh, we used monthly data from smart meters between 1 July 2018 to 31 December 2020 to calculate actual consumption, demand and NMIs at 31 December 2020. We then used this as the basis of NMIs, energy and demand to derive our 2021-22 estimates for major customers on Tariffs 5, 6 & 7. For small customers (Tariff 1, 2 & 3), we have slightly decreases NMI's from our 2020-21 pricing proposal, whilst making adjustments to reflect that a marginally smaller number of customers that have moved from accumulation to smart meters.
Step 2 -Tracking 2020-21 forecasted consumption against actuals	We have used an estimate based on actual data between 1 July and 31 December 2020 to re-balance our 2020-21 forecasts. For NMIs we applied the rate of growth in AEMO's forecasts for our 2019-24 regulatory determination (AEMO forecast). We considered this still provided the best outlook as the Northern Territory did see a temporary increase of residential customers during the first half of the current financial year (2020-21). For consumption and demand, we applied a reduction based on the forecasted estimates for 2020-21.

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Table 6 below compares the forecasts contained in the 2021-22 proposal with the forecast contained in our 2020-21 proposal.

This shows a decline in aggregate energy consumption of 1 per cent, and a reduction in demand of 1 per cent when comparing FY21. We consider this reflects flatter economic growth in the Northern Territory than originally projected last year, most probably impacted by the economic fallout from the COVID-19 pandemic.

Our forecast consumption for 2021-22 is slightly higher than the forecasts provided in last year's proposal, reflecting an increase in consumption expected from the vaccine roll out and as our mining and hospitality industries begin to recover.

Because we operate under a revenue cap, updating these forecasts will support smoother year-on-year price movements for our customers but will not change the total revenue we earn.

**Table 6: Key NMI, energy & demand forecasts**

Year	2020-21		2021-22	
Parameter	Forecast in 2020-21 pricing proposal	Estimate in 2021-22 pricing proposal	Forecast in 2020-21 pricing proposal	Forecast in 2021-22 proposal
Energy (GWh)	1,607	1,591	1,592	1,599
Peak demand (MVA)*	2,658	2,631	2,691	2,644
NMIs	87,749	86,981	88,826	88,807

\*This is the aggregation of the monthly maximum demand recorded during the peak window.

### 3.2.1. COVID-19

We have incorporated the impact of COVID-19 into our consumption and demand forecasts, reducing our current year (2020-21) forecast by 1 per cent, while forecasting a recovery to pre-COVID levels starting in late 2021-22.

We have seen our non-residential sector heavily impacted, led by our major customer segment who have been impacted by travel restrictions and social distancing requirements. This includes our airports, casinos and other hospitality and tourism customers impacted from travel restrictions during this pandemic. In addition to these industries, our mining and defence sectors have also been impacted due to the pandemic. This has reduced energy consumption and demand volumes across these areas of our major customer segment. In some circumstances this has led to movements between tariffs.

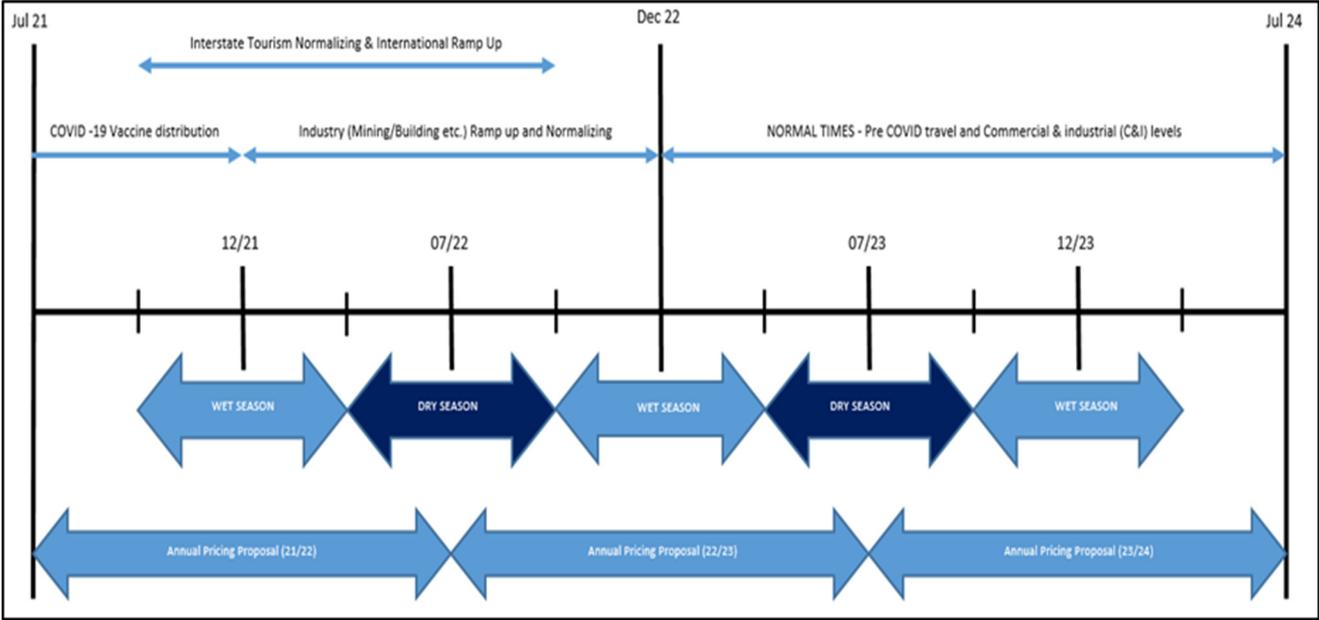
Outside of our major customer's segment, consumption and demand trends have remained relatively stable. Vacancy rates for longer term accommodation in major centres such as Darwin is likely to have been driven by individuals and families temporarily relocating to the Northern Territory during the pandemic. The Northern Territory is viewed as a safe harbour and has not suffered any significant outbreaks, or experienced mass community transmission. This has resulted in minimal disruption to many parts of the economy, while increasing consumption in some areas (such as Howard Springs Quarantine facility).

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It should be noted that our 2020-21 pricing proposal incorporated reduced consumption and demand in our network area, largely driven by the behind the meter solar installation and a flattening economy. Our mining and hospitality customer segment experienced more substantial reductions than forecast, offset by more stable consumption and demand trends in other segments.

Figure 2 below highlights our thinking on the return to normal, we expect that the vaccine roll-out will aid industry recovery and normalization in mining and tourism operations through 2021-22.

**Figure 2: Forecasted COVID-19 recovery**



### 3.3. Tariff re-balancing strategy

The third step in our process was to develop tariff rates that allowed us to earn the total allowed revenue for 2021-22, using an approach that closely aligns with the tariff re-balancing strategy in our AER approved TSS.

In our approved TSS, we proposed to improve the efficiency of our tariff structures. Our strategy is to align our demand tariffs with LRMC estimates, recover more residual costs through the daily SAC charge, and reduce reliance on energy consumption charges.<sup>8</sup> We also sought to better align revenue recovery with our costs to serve, in particular by increasing the proportion of revenue collected from customers consuming over 750MWh.<sup>9</sup>

In setting our prices for 2021-22 and, in light of our reduced allowable revenue due to the over recovery in 2019-20, we have directed revenue reductions to the energy (KWh) and demand (KVA) components across our all tariff groups whilst providing minimal reductions to our fixed SAC. Table 7 below sets out how this strategy has been applied to the individual tariff charges.

**Table 7: Tariff strategy applied to charging parameters in 2021-22**

Steps	Approach
Daily SAC charge	For tariffs 1, 2 & 3 we are proposing to marginally decrease SAC, while increasing the SAC for tariff 6. The most material change is for HV customers consuming below 750MWh pa, who we expect will remain under the retail price protections in the NT Pricing Order. This is to slowly align their SAC with the larger customers connected to our HV network.
Energy charges	We are proposing to reduce the energy charge for each tariff as per our approved TSS. The reduction is similar across each tariff, but the largest reductions are for our major customers, helping to support non-residential sectors economic recovery whilst ensuring that customers on all tariffs receive a price reduction.
Demand charges	Our demand charges vary by tariff grouping and are aimed at gradually aligning our charges with LRMC consistent with our AER approved TSS. We are reducing the demand charge for smart metered customers this year, providing support and lower costs to aid the NT economy through the pandemic.

### 3.4. SCS Tariffs

Table 8 sets out the proposed price list for SCS tariffs in 2021-22 by charging parameter. The charges are based on the key inputs, forecast volumes and tariff strategies identified above. The inputs and outputs are contained in the 2021-22 SCS Pricing Model at appendix 6. Importantly this model has been designed to demonstrate that the tariffs are consistent with our AER approved TSS, and meet the Rule requirements in respect of under-over recovery calculation and side constraints for the current year.

<sup>8</sup> Power and Water, AER approved Tariff Structure Statement, April 2019, p16-17. Page 19 of the document also sets out our strategy if a revenue reduction were to occur in the 2019-24 period including: Direct any required revenue reductions to lower energy consumption tariffs for customers under 750MWh ;progress our demand tariffs closer to long run marginal cost estimates while managing bill impacts; and examine the role of demand charges in recovering residual costs.

<sup>9</sup> Power and Water, AER Approved Tariff Structure Statement – Explanatory Statement, April 2020, p25.

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**Table 8: 2021-22 Price list for SCS - tariffs by charging parameter (\$, nominal)**

Tariff	SAC \$/NMI/day	Anytime Energy Charge \$/kWh	Demand \$/kVA/month
Tariff 1: Residential Tariff	0.910	0.072929	-
Tariff 2: Non-residential Tariff	1.470	0.080000	-
Tariff 3: LV Smart Meter Tariff	1.500	0.022000	16.000
Tariff 4: Unmetered Tariff	-	0.050000	-
Tariff 5: LV Majors Tariff	71.200	0.019000	10.000
Tariff 6: HV Minors Tariff	1.600	0.019000	8.500
Tariff 7: HV Majors Tariff	85.000	0.019000	7.745

Appendix 2 compares our current 2020-21 charges to our proposed charges in 2021-22, as well as the remaining years of the current regulatory control period. This revised schedule attempts to align with our tariff strategy in our AER approved TSS and has been updated to take into account the distribution of the vaccine and forecasted economic recovery.

## 4. ALTERNATIVE CONTROL SERVICES (ACS)

This chapter explains our 2021-22 ACS charges and the inputs we used to calculate them in accordance with the AER’s determination. Alternative control services (ACS) are regulated distribution services we provide specifically to a customer. They include metering and ancillary (one-off) services. The services are provided on a user pays basis and the costs are recovered from individual customers through charges.

### 4.1. Key inputs to calculating ACS prices

ACS are subject to a price cap, which is updated on an annual basis. There is no under-over recovery in the price cap formula.

In 2019-20, we had to apply the charge published in the AER’s determination. From 2020-21 we have to apply a formula to update the previous year’s price taking into account inflation and the relevant X-factor for each service in the AER’s determination. Table 8 identifies the key inputs to calculate the 2021-22 charges for ACS. Appendix 7 is our ACS pricing model which demonstrates our compliance with the AER’s control mechanism in deriving the 2021-22 prices.

**Table 9: ACS metering pricing parameters**

Terms	Input	Source
Inflation update	0.86%	Consistent with AER prescribed method we have updated inflation forecasts for 2021-22 to reflect the December 2020 ABS updates. Note this inflation update is consistent with that used to determine SCS prices.
X-factor for metering services (Type 1 to 6)	-3.27%	Consistent with AER final decision on page 21 of Attachment 15 (Table 15.7)
X-factor re-connection, disconnection and final read	4.39%	Consistent with AER final decision on page 20 of Attachment 15 (Table 15.6)
X-factor for all other services to apply to 2021-22	-0.82%	Consistent with AER final decision on page on page 20 of Attachment 15 (Table 15.6)

### 4.2. ACS metering tariffs

Our metering service provision includes us performing the following activities:

- Metering coordinator
- Metering provider including providing, installing, maintaining, inspecting, replacing and testing meters
- Meter reading, including scheduled and special meter reads (e.g. move in and move out meter reading, final read on removed meter)
- Data services including collection, processing, management, delivery and storage of metering data.

Table 9 sets out the proposed price list for single phase meters, three phase meters and dedicated current transformer or voltage transformer with remote reading meters (i.e. CT and VT meters). Similar to the SAC charge, the metering charges will be applied on a daily basis. Table 10 converts the daily charge to an

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annual charge by multiplying by the number of days in 2021-22. The daily charge is set out in the ACS Pricing Model at Appendix 7.

**Table 10: ACS metering service provision for Type 1 to 6 meters - 2020-21 Price List (Nominal \$, excluding GST)**

Meter type	Basis of charging	Annual Charge 2021-22
1 Phase Meters (including Prepayment)	\$/year/meter	\$67.35
3 Phase Meters	\$/year/meter	\$74.15
Dedicated CT and VT meters	\$/year/meter	\$125.59

### 4.3. Ancillary –Quoted services

Quoted services are provided for one-off specific tasks at a customer or retailer’s request. The cost of quoted services will vary on the time taken and any other costs incurred to complete the task. The charges included for quoted services relate to the cost of labour (and overheads) that will be used to provide a quote for the service. Additional to the labour costs, we also include material and travel costs. Table 10 sets out the proposed price list for 2021-22 for quoted services.

**Table 11: ACS quoted services - Price list in 2021-22 - labour only (Nominal \$, excluding GST)**

Quoted Service	Basis of charging	Price
Design related services	\$/Hour	\$162.08
Connection applications	\$/Hour	\$162.08
Access permits, oversights and facilitation	\$/Hour	\$162.08
Notices of arrangement and completion notices	\$/Hour	\$90.81
Network related property services	\$/Hour	\$90.81
Site establishment services	\$/Hour	\$90.81
Network safety services	\$/Hour	\$138.21
Network tariff change request	\$/Hour	\$90.81
Planned interruption - customer request	\$/Hour	\$138.21
Performance of a statutory right (access prevented)	\$/Hour	\$138.21
Provision of network related training to third parties	\$/Hour	\$90.81
Non-standard reporting services	\$/Hour	\$90.81
Services provided for retailer of last resort event	\$/Hour	\$90.81
Rectification of illegal connections service	\$/Hour	\$138.21
Network changes at customer or retailer's request	\$/Hour	\$138.21
Annual prepayment meter licensing fee	\$/Hour	\$90.81

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### 4.4. Ancillary – Fee based services

Fee based charges form part of ancillary services. These services are routinely performed and are based on a set rate that includes a labour rate, materials, other and overheads with a set time to perform the task. Table 11 sets out the proposed price list for 2021-22 for fee based services.

**Table 12: ACS fee based services - 2021-22 Price List (nominal \$, excluding GST)**

Fee based Service	Basis of charging	Charge (2021-22)
Disconnection (and final read)	\$/Request	\$63.02
Reconnection	\$/Request	\$63.02
Reconnection - after hours	\$/Request	\$117.07
Temporary disconnection and reconnection - physical dismantling	\$/Request	\$767.89
Provision of 3 phase service	\$/Request	\$1,459.01
Standard temporary builder's connection	\$/Request	\$684.97
Temporary disconnection and reconnection - no dismantling	\$/Request	\$297.94
Complex disconnection	\$/Request	\$325.59
Wasted visit fee	\$/Request	\$159.72
Special meter test	\$/Request	\$311.77
Exchange or replace meter – three phase	\$/Request	\$687.79
Exchange or replace meter - single phase	\$/Request	\$575.81
Relocation of meter	\$/Request	\$325.59
Remove meter	\$/Request	\$325.59
General meter inspection	\$/Request	\$145.90
Special meter read - no appointment	\$/Request	\$37.07
Special meter read – appointment	\$/Request	\$80.19
Class 3 PV Assessment	\$/Request	\$1,237.11
Meter program change	\$/Request	\$168.31
Historical data requests	\$/Request	\$205.31
Standing data requests	\$/Request	\$45.40
Customer transfers	\$/Request	\$181.60
Network tariff change request	\$/Request	\$45.40
Prepayment Vending Charge	\$/Request	\$0.50
Prepayment Meter Support Charge	\$/Request	\$69.12
Installation of Minor Apparatus	\$/Request	\$650.41
Class 1 & 2 PV service	\$/Request	\$90.81

## 5. PRICING COMPLIANCE

This chapter explains how we have demonstrated compliance with the pricing principles, and other requirements in the NT NER. Appendix 1 is our checklist of how we have complied with each relevant provision in the NT NER.

### 5.1. Pricing principles

The NT NER requires that tariffs comply with pricing principles. In the sections below we identify how we have met each of the pricing principles.

#### 5.1.1. Network Pricing Objective

Our tariff structures must support the network pricing objective in the pricing principles. Under the objective, the tariffs we charge for direct control services to a retail customer should reflect our efficient costs of providing those services to that retail customer.<sup>10</sup>

Consistent with this objective, we have sought to support the long term interests of our customers when designing our tariffs. In our TSS Explanatory Statement<sup>11</sup> we noted that our tariff strategy seeks to develop tariff structures that reflect the efficient cost of providing these services to each retail customer. At the same time we sought to minimise adverse bill impacts. In 2019-20, we made significant inroads into tariff reform by simplifying our tariff structures, and by moving to more efficient charging parameters.

Our tariff strategy for the 2021-22 pricing proposal has maintains the daily SAC charge for our major customers (above 750MWh) whilst reducing energy and demand charges to ensure compliance with the reduced maximum allowable revenue. We expect that energy and demand charges will revert to normalised levels in 2022-23 and 2023-24. We have decided to make this temporary change in order to meet the revenue requirements while also creating marginal incentive for our major customers looking to increase operations post the COVID-19 pandemic.

Our tariff strategy is explained in section 3.4.

#### 5.1.2. Pricing within stand-alone and avoidable cost

To comply with the NT NER, Power and Water must demonstrate that expected revenues from customers for a given tariff class are less than the stand alone cost of serving those customers and more than the avoidable cost of not serving those customers – commonly referred to as the ‘efficient pricing bounds’.<sup>12</sup>

Our 2019-24 TSS provided the efficient pricing bounds for each tariff class. We have updated the TSS values to reflect CPI inflation as part of this pricing proposal. Table 12 demonstrates that the revenues we expect to recover from each tariff class (in bold) are within the CPI inflation adjusted efficient pricing bounds previously approved.

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<sup>10</sup> NT NER 6.18.5(a).

<sup>11</sup> Power and Water, Revised Tariff Structure Statement – Explanatory Statement, November 2018.

<sup>12</sup> NT NER 6.18.5(e).

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**Table 13: Stand-alone and avoidable cost (\$M per year, real \$2021-22)**

Revenue and cost measures	Tariff class		
	LV <750MWh	LV >750MWh	HV
Stand-alone cost	125	114	43
Forecast 2021-22 tariff revenues	<b>106</b>	<b>15</b>	<b>13</b>
Avoidable cost	16	9	4
Compliant	Yes	Yes	Yes

### 5.1.3. Long run marginal costs (LRMC)

Under the NT NER, each tariff must be based on the long run marginal cost of serving those customers, with the method of calculation and its application determined with regard to the costs and benefits of that method, the costs of meeting demand from those customers at peak network utilisation times, and customer location.<sup>13</sup>

The AER's 2019-24 Distribution Determination approved our LRMC estimates. These estimates were based on the average incremental cost approach, as estimated for the HV system and the LV system. Our LRMC estimation was a two-step process where we first estimated LRMC for the whole of our three regulated networks by voltage level using current available inputs; and then compared these LRMC estimates against other National Electricity Market (NEM) distribution network's estimates and against previous estimates used for our 2014-19 network pricing determination.

Table 13 sets out our LRMC values, which were approved in our TSS. These values will be revaluated as part of our 2024-29 determination process.

**Table 14: Long-run marginal cost estimates (real \$2018-19)**

Tariff class	TSS LRMC estimate \$/kVA per month
LV <750MWh	20.0
LV >750MWh	20.0
HV	9.5

Ideally, demand charges should be set to match the LRMC estimates. However, this is not always possible given the customer impacts of moving from legacy tariffs to new tariffs based on LRMC. To assist with moving towards the ideal outcome we calculated a diversified LRMC by tariff in our TSS, which provides a minimum target for each tariff.<sup>14</sup> This involved assessing a customers' coincident demand for demand tariffs and power factor for consumption tariffs. For the 2021-22 pricing proposal we have adjusted the TSS values for inflation to convert them to nominal values. The inputs, methodology and outcomes are consistent with Power and Water's TSS.

<sup>13</sup> NT NER 6.18.5(f).

<sup>14</sup> Power and Water, Tariff Structure Statement, 01 April 2019, pg 16.

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Power and Water has made the decision in setting this year’s tariffs to direct the vast majority of our revenue reduction towards energy (KWh) and demand (KVA) usage charges, while only directing minimal reductions on our fixed daily charge (SAC).

Table 14 shows the diversified LRMC by tariff, compared to the relevant tariffs for 2020-21 and 2021-22. It shows:

- The anytime energy charge for customers not on smart meters has been reduced significantly and is now closer to the diversified LRMC estimates.
- The LV Smart Meter Tariff demand charge has been reduced and has moved below the LRMC, but remains well above the diversified LRMC by tariff. The purpose of reducing the demand charge is to limit the differential between customers on smart meters and accumulation meters and assist the NT economic recovery.
- In order to meet the reduced revenue requirement we have decreased the LV Majors demand tariff in 2021-22. We expect this to be a temporary movement away from diversified LRMC and are forecasting to resume movement towards it from 2022-23 onwards. This will have an added benefit of aiding large commercial and industrial customers’ recover from the impact of the COVID-19 pandemic.
- In order to meet the reduced revenue requirements we have decreased the HV demand tariff in 2021-22. We expect this to be a temporary movement away from diversified LRMC and are forecasting to resume movement towards it from 2022-23 onwards. This will have an added benefit of aiding large commercial and industrial customers’ recover from the impact of the COVID-19 pandemic.

**Table 15: Diversified LRMC by Tariff (\$Nominal 2021-22)**

Tariff	Anytime Energy Charge			Demand		
	Diversified LRMC by Tariff	2020-21	2021-22	Diversified LRMC by Tariff	2020-21	2021-22
	¢/kWh			S/kVA		
Tariff 1: Residential Tariff	3.08	8.50	7.29			
Tariff 2: Non-residential Tariff	3.15	9.00	8.00			
Tariff 3: LV Smart Meter Tariff				9.41	17.50	16.00
Tariff 4: Unmetered Tariff	3.18	5.30	5.00			
Tariff 5: LV Majors Tariff				17.77	12.30	10.00
Tariff 6: HV Minors Tariff				8.44	8.37	8.50
Tariff 7: HV Majors Tariff				8.44	8.37	7.75

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### 5.1.4. Reflect total efficient costs and seek to minimise distortion

The NT NER requires that the expected revenue from each tariff must reflect our efficient costs, permit us to recover revenue consistent with the applicable distribution determination, and minimise distortions to efficient price signals.<sup>15</sup>

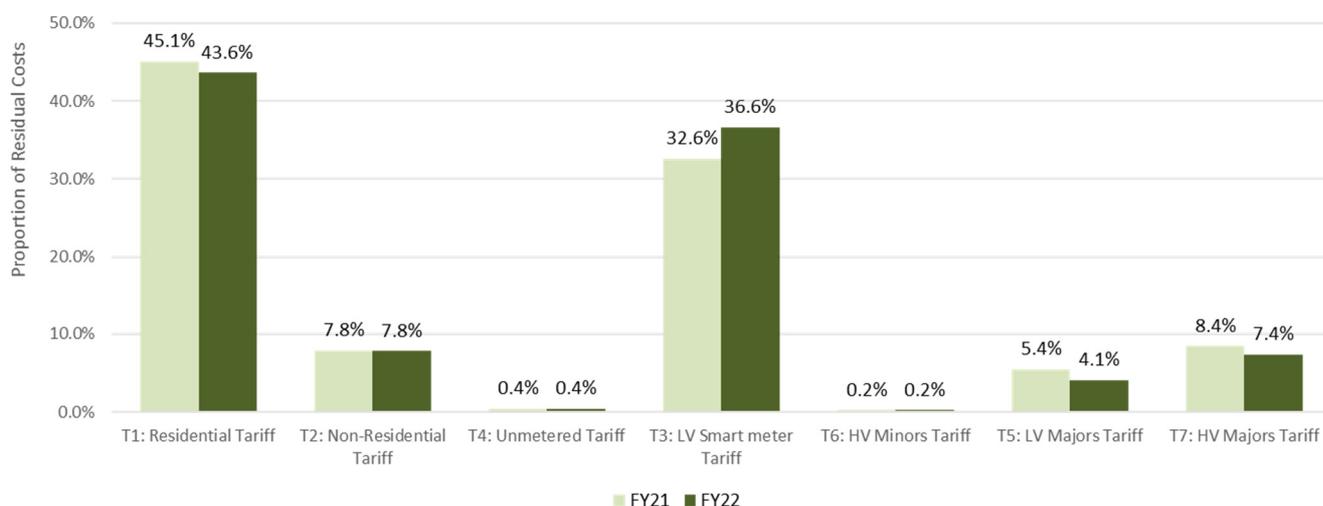
Our tariffs as a whole are set to recover the total allowed revenue consistent with the AER's determination. This is set out in section 3.1 of this document. The revenue reflects the AER's assessment of our efficient costs, updated for inflation and cost of debt.

The pricing principles require us to minimise distortions, which includes considering aligning revenue shares with the cost to serve, and revenue recovery through non-distortionary charging parameters. Our focus is on those customers who see our tariff structures and charges, although we try to adopt these principles across all our tariff classes.

In our TSS we noted that our strategy was to better align revenue recovery with our costs to serve, in particular by increasing the proportion of revenue collected from customers consuming over 750MWh. Our proposed prices for 2019-20 increased that share from 21.0% to 21.6%. However, in an effort to support the economic recovery of the Northern Territory, we have proposed a reduction to that share from 21.6% in 2020-21 down to 20.6% for 2021-22. We fully expect to increase this share in the remaining years of the current regulatory period, increase the share to 21% in 2022-23 and then 21.7% in 2023-24.

Figure 3 shows that residual cost shares between major and minor customers has been slightly adjusted from 2020-21 to 2021-22. A key reason is that our approach is to support economic recovery and target revenue reductions towards usage charges (energy and demand) while maintaining stability in our SAC charges. We do not believe this goes against the general strategy of our AER approved TSS and we will review our residual cost once we moved to normal economic times.

**Figure 3: Residual cost recovery share by tariff (2020-21 and 2021-22)**

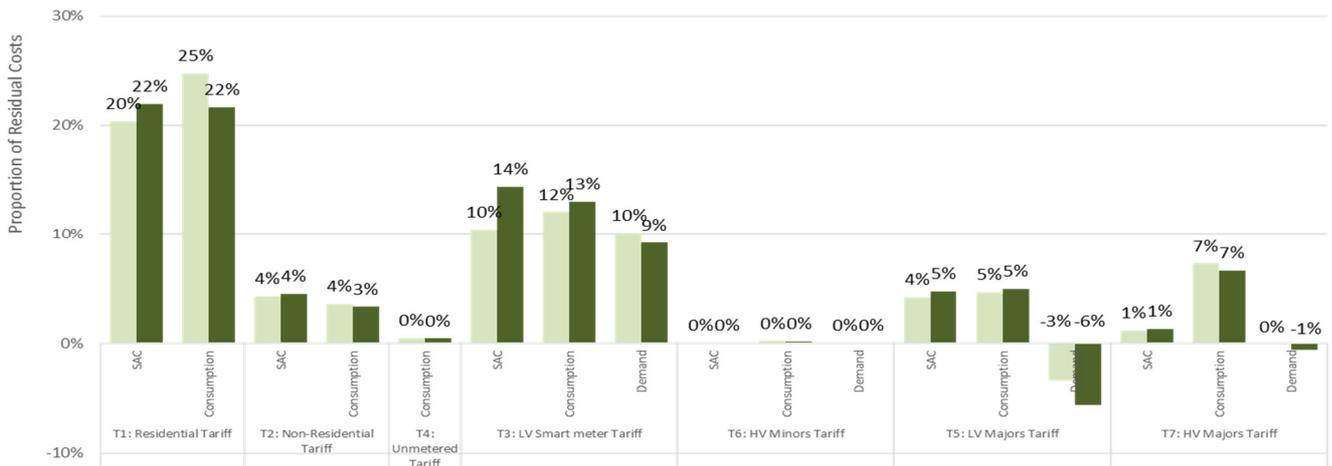


<sup>15</sup> NT NER 6.18.5(g).

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In addition to assessing residual costs at the tariff level, we have also assessed residual values for each parameter. Where this can be achieved, we preference the recovery of residual costs from SAC charges and demand charges rather than anytime energy charges, whilst managing bill impacts. Figure 4 below shows the outcome of this analysis for 2020-21 and 2021-22. The analysis shows that in most cases, we are continuing to increase the amount of residual costs we collect through the SAC, with slightly less from energy charges and demand charges.

**Figure 4: Residual cost recovery share by tariff parameter (2020-21 and 2021-22)**



### 5.1.5. Customer transition and ability to respond

While the NT NER requires us to adopt efficient cost reflective tariffs, it recognises that this may need to occur over a period of transition. Under the pricing principles, the design of any transition can have regard to the level of bill impact faced by our customers, the desirability for efficient tariffs, customers' ability to choose tariffs and their ability to respond to pricing changes by modifying their behaviour.<sup>16</sup>

In 2019-20 we made significant headway into developing efficient tariffs, which continued in 2020-21 while having regard to potential bill impacts. This pricing proposal for 2021-22 builds on the structural changes we introduced in 2019-20 by moving more of our revenue recovery to more efficient tariffs. However, in this proposal we have also instead passed through significant revenue reductions to all customers by reducing the energy and demand charges across all tariffs.

As noted in section 5.1.4, we have not made significant progress in increasing revenue for major customers to reflect the underlying cost to serve, due to the over recovery in 2019-20. At the same time, our decision to reduce the SAC to our LV below 750MWh tariffs and leaving the SAC charges stable for a major customers while reducing energy and demand charges for major customers was for all customers will provide proportionate incentives to aid the economic recovery from the COVID-19 pandemic. We also considered it appropriate to minimise potential bill shocks provide temporary relief to all customers, including large customers who are major employers in the territory and who are not subject to the Pricing Order retail pricing protections. Given the revenue requirements in future years, we expect some resetting of tariff charges as part of our next pricing proposal.

<sup>16</sup> NT NER. 6.18.5(h).

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### 5.1.6. Simple to understand

The pricing principles also require that tariff structures be reasonably capable of being understood by retail customers assigned to that tariff.<sup>17</sup>

Power and Water's tariffs are, compared to other utilities, simple and easy to understand. Notably we have simple tariff structures with a flat rate anytime energy and single peak demand charge for each tariff (with no off-peak demand charging). Most other networks have significantly more tariffs. We have also retained simplicity in our tariffs by not having a menu of opt in tariffs, which helps reduce transaction costs and is unnecessary amid the Pricing Order retail pricing protections.

## 5.2. Other requirements in the NER

This section addresses other relevant NT NER provisions including:

### 5.2.1. Side constraints

The NT NER requires that we apply side constraints, which restricts movements of revenues within each tariff class from one year to the next.<sup>18</sup> Specifically, for each regulatory year after the first year of a regulatory control period, side constraints apply to the weighted average revenue raised from each tariff class. In accordance with the NT NER, the permissible percentage increase is the greater of CPI-X plus 2 per cent or CPI plus 2 per cent<sup>19</sup> after accounting for other adjustments allowed in the annual TAR formula.

Appendix 6 demonstrates our compliance with the side constraint for each tariff class. We have calculated the relevant side constraint to apply in 2021-22 as set out in Table 15 below.

**Table 16: Calculation of side constraint for 2021-22**

Component	Values
Inflation	0.86%
X-Factor	-0.59%
Constraint Factor	2.00%
Incentive Scheme Adjustments	0%
Annual Adjustment Factors	-9.65%
Approved Pass Through Amounts	0%
<b>Constraint</b>	<b>-6.16%</b>

The reduction in the weighted average revenue raised from each tariff class is significantly less than the constraint on revenue increases, as set out in Table 16 below.

<sup>17</sup> NT NER 6.18.5(i).

<sup>18</sup> While the side constraint forms part of the control mechanism it is discussed here as it impacts on the level of pricing parameters rather than the total revenue requirement.

<sup>19</sup> NT NER, 6.18.6(c).

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**Table 17: Weighted expected revenue in 2020-21 and 2021-22 and % change**

Tariff class	Expected Revenue 2020-21	Expected Revenue 2021-22	% change in revenue
LV <750MWh	\$112,762	\$105,858	-6.12%
LV >750MWh	\$16,493	\$14,866	-9.86%
HV	\$15,024	\$13,221	-12.00%

### 5.2.2. Variation during the year

The NT NER requires that a pricing proposal set out the nature of any variation or adjustment to the tariff that could occur during the course of the regulatory year and the basis on which it could occur.<sup>20</sup>

The NT government’s policy response to the COVID-19 pandemic could potentially involve Power and Water and our pricing. We are not aware of any such plans presently and would engage with our stakeholders were these to transpire.

#### *Variation compared to indicative price schedule in TSS*

Appendix 2 set out our indicative prices based on current revenue and demand forecasts contained in our pricing proposal, including proposed charges for each tariff for 2021-22 and the remaining years of current regulatory period.

We have compared these proposed rates against the indicative prices included in the AER approved TSS<sup>21</sup>. We note differences between all proposed charges and indicative tariff rates largely attributable to the following factors:

- Reduced revenue recovery due to an over-recovery in 2019-20 and the operation of the overs and unders mechanisms (all tariffs) – see 3.2.1
- Rebalancing of revenues for major customers, including reductions in energy and demand charges (tariffs 5 and 7) – see section 3.3
- Changes in forecasted volumes from our 2019-20 pricing proposal, which have now been updated with new data and source information. – see section 3.2
- Our TSS values were based on assumed values from a complicated tariff structure that applied in 2018-19. When we reviewed these assumptions in our pricing proposal, we considered amendments were required to meet the pricing principles and minimise adverse price outcomes for customers.
- The revenue parameters are changed from forecast in the AER’s determination including lower inflation and a lower X-factor.

Our demand and energy charges are significantly lower than the indicative tariffs set out in the TSS for all but two energy charges, being tariffs 3 & 5 which are significantly higher. However, our SAC charges for all tariffs are significantly higher, with the exception of tariff 5 which is slightly lower than our TSS.

<sup>20</sup> NT NER 6.18.2(b)(5)

<sup>21</sup> Power and Water, Tariff Structure Statement, April 2019, page 28.

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These adjustments are required to ensure our proposed tariffs for 2021-22 are sufficient to collect the allowed revenue, while potentially aiding in the economic recovery post COVID-19.

Updated indicative price levels for the remaining years of the regulatory period are set out in Appendix 2 of this determination for SCS, with the underlying calculations contained in the SCS Pricing model at Appendix 6. These indicative rates for the outer years are better aligned to the AER approved TSS.

### *5.2.3. Tariff variation from 2020-21 to 2021-22*

The NT NER requires us to describe the nature and extent of change from the previous regulatory year and demonstrate that the changes comply with the NT NER and any applicable distribution determination.

In this respect we note that our tariff classes and structures remain the same as the previous year. The updated tariff charges are a result of the decrease in the total allowed revenue for 2021-22 compared to 2020-21.

The relative changes reflect our TSS approved by the AER. In our TSS we noted that we would recover residual costs by aiming to keep demand tariffs in line with our LRMC estimates, preferencing residual cost recovery through the fixed daily system access charge, and reducing reliance on energy consumption charges. However, in setting our prices for 2021-22 and, in light of our reduced allowable revenue due to the over recovery in 2019-20, we have directed revenue reductions to the energy (KWh) and demand (KVA) components across our all tariff groups whilst providing minimal reductions to our fixed SAC. Our 2021-22 tariffs are demonstrated in section 3.3 of this document.

The tariff changes are compliant with the NT NER and the control mechanism formula in the AER's 2019-24 regulatory determination.

### *5.2.4. Rounding*

When reporting on compliance as part of the annual pricing proposal process each year of the 2019–24 regulatory control period, the AER requires that certain calculation inputs be used on an unrounded basis while others may be used on a rounded basis. The process for rounding and the specific inputs to be rounded are detailed in Draft Determination Attachment 13: Appendix D<sup>22</sup>.

We have complied with these requirements.

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<sup>22</sup> The final decision confirmed this aspect of the Draft Decision. Australian Energy Regulator, Final Decision: Power and Water Corporation Distribution Determination for 2019 to 2024, April 2019, page 13-5.

## GLOSSARY

AARt	Adjusted annual smoothed revenue
ACS (charges)	Alternative Control Services
AER	Australian Energy Regulator
AEMO	Australian Energy Market Operator
CPI	Consumer Price Index
DMIS	Demand Management Incentive Scheme
DNSP	Distribution Network Service Provider
GST	Goods and Services Tax
GW	Gigawatt
GWh	Gigawatt hour
HV	High Voltage
kV	Kilovolt
kVA	Kilovolt amperes
kVAr	Kilovolt amperes reactive
kW	Kilowatt
kWh	Kilowatt hour
LRMC	Long Run Marginal Cost
LV	Low Voltage
MVA	Megavolt ampere
MW	Megawatt
MWh	Megawatt hour
NEM	National Electricity Market
NER	National Electricity Rules
NMI	National Metering Identifier
NT NER	Northern Territory National Electricity Rules
PTRM	Post Tax Revenue Model

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PV	Photovoltaic
Power and Water	Power and Water Corporation
SAC	System Access Charge
SCS	Standard Control Services
TAR	Total allowable revenue
TSS	Tariff Structure Statement
UC	Utilities Commission of the Northern Territory
WACC	Weighted Average Cost of Capital

## APPENDIX 1 - COMPLIANCE CHECKLIST

The purpose of this appendix is to identify how we have met each relevant provision of the NT NER as it relates to this pricing proposal. Table 17 below sets out the clause, requirement and relevant section of this document or the appendices that satisfies the requirement.

Table 18: Compliance checklist

Rule	Requirement Relevant	Relevant Section
6.7.5	Negotiating Framework	AER Final Decision: Negotiating Framework
6.7.5(a)	A Distribution Network Service Provider must prepare a negotiating framework document setting out the procedure to be followed during negotiations	AER Final Decision: Negotiating Framework
6.7.5 (b) and (c)	The negotiating framework must comply with and be consistent with: (1) the applicable requirements of the relevant distribution determination; and Note: See clause 6.7.3. (2) paragraph (c), which sets out the minimum requirements for a negotiating framework.	AER Final Decision: Negotiating Framework
6.18.2 (a)	Distribution Network Service Provider must:	
6.18.2 (a)(2)	submit to the AER, at least 3 months before the commencement of the second and each subsequent regulatory year of the regulatory control period, a further pricing proposal (an annual pricing proposal) for the relevant regulatory year.	This report and accompanying attachments constitutes our pricing proposal for 2021-22. It has been provided to the AER 3 months before the commencement of the third regulatory year of the relevant regulatory control period.
6.18.2(b)	A Pricing Proposal must:	
6.18.2(b)(2)	set out the proposed tariffs for each tariff class that is specified in the Distribution Network Service Provider's tariff structure statement for the relevant regulatory control period;	For SCS services see section 3.4 For ACS Metering services see section 4.2 For ACS Quoted services see section 4.3 For ACS Fee based services see section 4.4
6.18.2(b)(3)	set out, for each proposed tariff, the charging parameters and the elements of service to which each charging parameter relates;	See section 2.2 for description of charging parameters and elements of service that the charge relates to. See section 3.4 for the tariff rate that applies to each charging parameter.
6.18.2(b)(4)	set out, for each tariff class related to standard control services, the expected weighted average revenue for the relevant regulatory year and also for the current regulatory year;	See section 5.2.1 and Appendix 6 (SCS Pricing Model)
6.18.2(b)(5)	set out the nature of any variation or adjustment to the tariff that could occur during the course of the regulatory year and the basis on which it could occur;	See section 5.2.2

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Rule	Requirement Relevant	Relevant Section
6.18.2(b)(6)	set out how designated pricing proposal charges are to be passed on to customers and any adjustments to tariffs resulting from over or under recovery of those charges in the previous regulatory year;	Not applicable as Power and Water has no designated pricing proposal charges. This is confirmed in calculation of TAR in section 3.1
6.18.2(b)(6A)	set out how jurisdictional scheme amounts for each approved jurisdictional scheme are to be passed on to customers and any adjustments to tariffs resulting from over or under recovery of those amounts;	Not applicable as Power and Water has no jurisdiction scheme amounts. This is confirmed in calculation of TAR in section 3.1.
6.18.2(b)(6B)	describe how each approved jurisdictional scheme that has been amended since the last jurisdictional scheme approval date meets the jurisdictional scheme eligibility criteria;	Not applicable as Power and Water has no jurisdiction scheme amounts. This is confirmed in calculation of TAR in section 3.1.
6.18.2(b)(7)	demonstrate compliance with the Rules and any applicable distribution determination, including the Distribution Network Service Provider's tariff structure statement for the relevant regulatory control period;	This is set out in this compliance register, with key elements such as Pricing Principles discussed in chapter 5 of this document. Quantitative compliance is demonstrated in Appendix 6 (SCS Pricing Model). We have also demonstrated how our tariff strategy is consistent with the AER approved TSS published in April 2019. This is discussed in section 3.3 of this document.
6.18.2(b)(7A)	demonstrate how each proposed tariff is consistent with the corresponding indicative pricing levels for the relevant regulatory year as set out in the relevant indicative pricing schedule, or explain any material differences between them; and	See section 5.2.2 for a full description of why the revised indicative pricing schedule in the 2021-22 pricing proposal differs from the indicative pricing schedule submitted in the TSS.
6.18.2(b)(8)	describe the nature and extent of change from the previous regulatory year and demonstrate that the changes comply with the Rules and any applicable distribution determination.	See section 3 of this document which discusses the key inputs that drive the calculation of tariffs (sections 3.1 and 3.2) and the tariff strategy that establishes changes at a charging parameter level to achieve the TAR.
6.18.2(c)	The AER must on receipt of a pricing proposal from a Distribution Network Service Provider publish the proposal.	Noted
6.18.2(d)	At the same time as a Distribution Network Service Provider submits a pricing proposal under paragraph (a), the Distribution Network Service Provider must submit to the AER a revised indicative pricing schedule which sets out, for each tariff and for each of the remaining regulatory years of the regulatory control period, the indicative price levels determined in accordance with the Distribution Network Service Provider's tariff structure statement for that regulatory control period and updated so as to take into account that pricing proposal.	This is set out at Appendix 2 for SCS, Appendix 3 for ACS Metering, Appendix 4 for ACS Quoted Service, and Appendix 5 for ACS Fee Based Services.  The underlying inputs, forecasts and calculations for SCS are contained in Appendix 6 for SCS and Appendix 7 for ACS.

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Rule	Requirement Relevant	Relevant Section
6.18.2(e)	Where the Distribution Network Service Provider submits an annual pricing proposal, the revised indicative pricing schedule referred to in paragraph (d) must also set out, for each relevant tariff under clause 6.18.1C, the indicative price levels for that relevant tariff for each of the remaining regulatory years of the regulatory control period, updated so as to take into account that pricing proposal.	We have not exercised our option under 6.18.1C. That is we have not sought the AER's approval for a new proposed tariff (a relevant tariff) that is outside of our approved TSS.
6.18.5	Pricing principles	
6.18.5(e)	For each tariff class, 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	See section 5.1.2
6.18.5(e)(2)	a lower bound representing the avoidable cost of not serving those retail customers.	Table section 5.1.2
6.18.5(f)	Each tariff must be based on the long run marginal cost of providing the service to which it relates to the retail customers 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:	See section 5.1.3
6.18.5(f)(1)	the costs and benefits associated with calculating, implementing and applying that method as proposed;	See section 5.1.3 and refer to our AER approved TSS for a fuller description underlying our method.
6.18.5(f)(2)	the additional costs likely to be associated with meeting demand from retail customers that are assigned to that tariff at times of greatest utilisation of the relevant part of the distribution network; and	Refer to our AER approved TSS for a fuller description underlying our method.
6.18.5(f)(3)	the location of retail customers that are assigned to that tariff and the extent to which costs vary between different locations in the distribution network.	Refer to our AER approved TSS for a fuller description underlying our method.
6.18.5(g)	The revenue expected to be recovered from each tariff must:	
6.18.5(g)(1)	reflect the Distribution Network Service Provider's total efficient costs of serving the retail customers that are assigned to that tariff;	See section 3.1 which shows that we have used the AER's calculation of TAR. Implicit in the calculation is the AER's smoothed revenue requirement, ACS prices and X-factors from its 2019-24 Distribution Determination for Power and Water. These reflect the AER's assessment of efficient costs for SCS and ACS.
6.18.5(g)(2)	when summed with the revenue expected to be received from all other tariffs, permit the Distribution Network Service Provider to recover the expected revenue for the relevant services in accordance with the applicable distribution determination for the Distribution Network Service Provider; and	This is demonstrated in Appendix 6 (SCS pricing model)

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Rule	Requirement Relevant	Relevant Section
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).	See section 5.1.4
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) to the extent the Distribution Network Service Provider considers reasonably necessary having regard to:	Section 5.1 describes how we have considered the pricing principles in our tariffs for 2021-22. This draws out areas where we have considered bill impacts on major customers as a key consideration.
6.18.5(h)(1)	the desirability for tariffs to comply with the pricing principles referred to in paragraphs (f) and (g), albeit after a reasonable period of transition (which may extend over more than one regulatory control period);	See section 5.1.5 and a more detailed description of our approach in our AER approved TSS.
6.18.5(h)(2)	the extent to which retail customers can choose the tariff to which they are assigned; and	See section 2.3 on our procedures to assign customers to tariff classes. Our tariff assignment is based on consumption levels, metering and voltage connection. Customers do not have the ability to opt-in to different tariffs.
6.18.5(h)(3)	the extent to which retail customers are able to mitigate the impact of changes in tariffs through their usage decisions.	See the Summary where we note that we expect major customers who may have an increase in price to be able to offset this by shifting some of their energy usage from peak to off-peak periods.
6.18.5(h)(3) (ha)	However, for a distribution determination for a Distribution Network Service Provider in this jurisdiction that will apply or applies during the 1st regulatory control period, the reference in paragraph (h) to "the previous regulatory year" must be regarded as a reference to "the year that precedes the relevant <i>regulatory year of the 1st regulatory control period</i> (which may be the last year of the <i>2014-19 NT regulatory control period</i> )".	Noted
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: 1) the type and nature of those retail customers; and (2) the information provided to, and the consultation undertaken with, those retail customers.	See Section 5.1.6 on why we consider the tariffs are relatively simple to understand compared to other jurisdictions. We note the significant consultation on tariff structures that we undertook in developing our approved TSS
6.18.5(j)	A tariff must comply with the Rules and all applicable regulatory instruments.	See this compliance checklist, and a detailed description of compliance in Chapter 5 of this document. Other regulatory instruments include our AER approved TSS (see chapter 2 and section 3.3) and the AER's determination such as control mechanism formula (see section 3.1)

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Rule	Requirement Relevant	Relevant Section
6.18.6	Side constraints on tariffs for standard control services	See Section 5.2.1 where we show that our proposed tariffs comply with the side constraints in the NT NER.
6.18.7	Recovery of designated pricing proposal charges	We have no designated pricing proposal charges as discussed in section 3.1
6.18.7A	Recovery of jurisdictional scheme amounts	We have no jurisdictional scheme amounts as discussed in section 3.1
6.18.8	Approval of pricing proposal	AER
6.18.9	Publication of information about tariffs and tariff classes	We publish tariffs and tariff classes once approved by the AER.

## APPENDIX 2 - SCS REVISED INDICATIVE PRICING SCHEDULE

Table 18 sets out our proposed TSS tariff charges for 2021-22 (**bold**) by charging parameter, together with the approved tariff charges in previous submissions, and the indicative tariff charge in the remaining years of the regulatory period. This constitutes our revised indicative pricing schedule for SCS.

Table 19: Indicative price schedule for SCS (nominal \$, excluding GST)

Charge	Basis of charging	Charge 2019-20	Charge 2020-21	Proposed 2021-22	Indicative 2022-23	Indicative 2023-24
<b>Tariff 1: Residential</b>						
SAC	\$ per day per NMI	0.640	0.917	<b>0.910</b>	0.950	1.200
Anytime Energy Charge	\$/kWh	0.10238	0.08500	<b>0.07293</b>	0.07403	0.07003
<b>Tariff 2: Non-residential</b>						
SAC	\$ per day per NMI	1.350	1.500	<b>1.470</b>	1.500	1.200
Anytime Energy Charge	\$/kWh	0.10430	0.09000	<b>0.08000</b>	0.07400	0.07000
<b>Tariff 3: LV Smart Meter</b>						
SAC	\$ per day per NMI	1.350	1.500	<b>1.500</b>	1.600	1.700
Anytime Energy Charge	\$/kWh	0.03000	0.02300	<b>0.02200</b>	0.03000	0.02525
Demand	\$/kVA	20.510	17.500	<b>16.000</b>	21.000	21.000
<b>Tariff 4: Unmetered</b>						
Anytime Energy Charge	\$/kWh	0.05506	0.05300	<b>0.05000</b>	0.05350	0.05650
<b>Tariff 5: LV Majors</b>						
SAC	\$ per day per NMI	70.000	71.200	<b>71.200</b>	80.000	85.000
Anytime Energy Charge	\$/kWh	0.02630	0.02000	<b>0.01900</b>	0.01900	0.01912
Demand	\$/kVA	11.000	12.298	<b>10.000</b>	12.850	13.840
<b>Tariff 6: HV Minors</b>						
SAC	\$ per day per NMI	1.350	1.500	<b>1.600</b>	5.000	10.000
Anytime Energy Charge	\$/kWh	0.03000	0.02300	<b>0.01900</b>	0.02500	0.02500
Demand	\$/kVA	9.500	8.370	<b>8.500</b>	10.250	10.250
<b>Tariff 7: HV Majors</b>						
SAC	\$ per day per NMI	70.000	85.000	<b>85.000</b>	85.000	85.000
Anytime Energy Charge	\$/kWh	0.02630	0.02350	<b>0.01900</b>	0.01900	0.01912
Demand	\$/kVA	8.270	8.370	<b>7.745</b>	10.330	11.340

### APPENDIX 3 - ACS METERING REVISED INDICATIVE PRICING SCHEDULE

Table 19 sets out our proposed price by meter type in 2021-22 (**bold**) together with the approved tariff charges in previous submissions, and the indicative price in the remaining years of the regulatory period. This constitutes our revised indicative pricing schedule for ACS metering services.

**Table 20: Indicative price schedule for ACS Metering services (nominal \$, excluding GST)**

Service	Basis of charging	Approved	Approved	Proposed	Indicative	Indicative
		2019-20	2020-21	2021-22	2022-23	2023-24
1 Phase Meters (including Prepayment)	\$/Year/Meter	\$61.48	\$64.66	<b>\$67.35</b>	\$71.24	\$75.35
3 Phase Meters	\$/Year/Meter	\$67.69	\$71.19	<b>\$74.15</b>	\$78.43	\$82.96
Dedicated CT and VT meters	\$/Year/Meter	\$114.65	\$120.58	<b>\$125.59</b>	\$132.84	\$140.51

## APPENDIX 4 - ACS QUOTED REVISED INDICATIVE PRICING SCHEDULE

Table 20 sets out our proposed price by ACS quoted service (labour only) in 2021-22 (**bold**) together with the approved price in previous submissions, and the indicative price in the remaining years of the regulatory period. This constitutes our revised indicative pricing schedule for ACS quoted services.

**Table 21: Indicative price schedule for ACS quoted services (nominal \$, excluding GST)**

Service	Basis of charging	Approved	Approved	Proposed	Indicative	Indicative
		2019-20	2020-21	2021-22	2022-23	2023-24
Design related services	\$/Hour	\$155.62	\$159.39	<b>\$162.08</b>	\$167.62	\$173.34
Connection applications	\$/Hour	\$155.62	\$159.39	<b>\$162.08</b>	\$167.62	\$173.34
Access permits, oversights and facilitation	\$/Hour	\$155.62	\$159.39	<b>\$162.08</b>	\$167.62	\$173.34
Notices of arrangement and completion notices	\$/Hour	\$87.19	\$89.30	<b>\$90.81</b>	\$93.92	\$97.12
Network related property services	\$/Hour	\$87.19	\$89.30	<b>\$90.81</b>	\$93.92	\$97.12
Site establishment services	\$/Hour	\$87.19	\$89.30	<b>\$90.81</b>	\$93.92	\$97.12
Network safety services	\$/Hour	\$132.71	\$135.92	<b>\$138.21</b>	\$142.94	\$147.82
Network tariff change request	\$/Hour	\$87.19	\$89.30	<b>\$90.81</b>	\$93.92	\$97.12
Planned interruption - customer request	\$/Hour	\$132.71	\$135.92	<b>\$138.21</b>	\$142.94	\$147.82
Performance of a statutory right (access prevented)	\$/Hour	\$132.71	\$135.92	<b>\$138.21</b>	\$142.94	\$147.82
Provision of network related training to third parties	\$/Hour	\$87.19	\$89.30	<b>\$90.81</b>	\$93.92	\$97.12
Non-standard reporting services	\$/Hour	\$87.19	\$89.30	<b>\$90.81</b>	\$93.92	\$97.12
Services provided for retailer of last resort event	\$/Hour	\$87.19	\$89.30	<b>\$90.81</b>	\$93.92	\$97.12
Rectification of illegal connections service	\$/Hour	\$132.71	\$135.92	<b>\$138.21</b>	\$142.94	\$147.82
Network changes at customer or retailer's request	\$/Hour	\$132.71	\$135.92	<b>\$138.21</b>	\$142.94	\$147.82
Annual prepayment meter licensing fee	\$/Hour	\$87.19	\$89.30	<b>\$90.81</b>	\$93.92	\$97.12

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### APPENDIX 5 - ACS FEE BASED REVISED INDICATIVE PRICING SCHEDULE

Table 21 sets out our proposed price by ACS fee based service in 2020-21 (**bold**) together with the approved price in in previous submissions, and the indicative price in the remaining years of the regulatory period. This constitutes our revised indicative pricing schedule for ACS fixed based services.

**Table 22: Indicative price schedule for ACS Fee based services (nominal \$, excluding GST)**

Service	Basis of charging	Approved	Approved	Proposed	Indicative	Indicative
		2019-20	2020-21	2021-22	2022-23	2023-24
Disconnection (and final read)	\$/Request	\$66.99	\$65.35	<b>\$63.02</b>	\$61.68	\$60.30
Reconnection	\$/Request	\$66.99	\$65.35	<b>\$63.02</b>	\$61.68	\$60.30
Reconnection - after hours	\$/Request	\$124.43	\$121.39	<b>\$117.07</b>	\$114.58	\$112.02
Temporary disconnection and reconnection - physical dismantling	\$/Request	\$737.30	\$755.16	<b>\$767.89</b>	\$794.16	\$821.26
Provision of 3 phase service	\$/Request	\$1,400.88	\$1,434.81	<b>\$1,459.01</b>	\$1,508.92	\$1,560.41
Standard temporary builder's connection	\$/Request	\$657.68	\$673.61	<b>\$684.97</b>	\$708.40	\$732.57
Temporary disconnection and reconnection - no dismantling	\$/Request	\$286.07	\$293.00	<b>\$297.94</b>	\$308.13	\$318.64
Complex disconnection	\$/Request	\$312.62	\$320.19	<b>\$325.59</b>	\$336.73	\$348.22
Wasted visit fee	\$/Request	\$153.36	\$157.07	<b>\$159.72</b>	\$165.18	\$170.82
Special meter test	\$/Request	\$299.35	\$306.60	<b>\$311.77</b>	\$322.44	\$333.44
Exchange or replace meter – three phase	\$/Request	\$660.39	\$676.38	<b>\$687.79</b>	\$711.32	\$735.59
Exchange or replace meter - single phase	\$/Request	\$552.87	\$566.26	<b>\$575.81</b>	\$595.51	\$615.83
Relocation of meter	\$/Request	\$312.62	\$320.19	<b>\$325.59</b>	\$336.73	\$348.22
Remove meter	\$/Request	\$312.62	\$320.19	<b>\$325.59</b>	\$336.73	\$348.22
General meter inspection	\$/Request	\$140.09	\$143.48	<b>\$145.90</b>	\$150.89	\$156.04
Special meter read - no appointment	\$/Request	\$35.60	\$36.46	<b>\$37.07</b>	\$38.34	\$39.65
Special meter read - appointment	\$/Request	\$77.00	\$78.86	<b>\$80.19</b>	\$82.93	\$85.76
Class 3 PV Assessment	\$/Request	\$1,187.82	\$1,216.59	<b>\$1,237.11</b>	\$1,279.43	\$1,323.09
Meter program change	\$/Request	\$161.61	\$165.52	<b>\$168.31</b>	\$174.07	\$180.01
Historical data requests	\$/Request	\$197.14	\$201.91	<b>\$205.31</b>	\$212.33	\$219.58
Standing data requests	\$/Request	\$43.59	\$44.65	<b>\$45.40</b>	\$46.95	\$48.55

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Service	Basis of charging	Approved	Approved	Proposed	Indicative	Indicative
		2019-20	2020-21	2021-22	2022-23	2023-24
Customer transfers	\$/Request	\$174.37	\$178.59	<b>\$181.60</b>	\$187.81	\$194.22
Network tariff change request	\$/Request	\$43.59	\$44.65	<b>\$45.40</b>	\$46.95	\$48.55
Prepayment Vending Charge	\$/Request	\$0.48	\$0.49	<b>\$0.50</b>	\$0.52	\$0.54
Prepayment Meter Support Charge	\$/Request	\$66.36	\$67.97	<b>\$69.12</b>	\$71.48	\$73.92
Installation of Minor Apparatus	\$/Request	\$624.50	\$639.62	<b>\$650.41</b>	\$672.66	\$695.61
Class 1 & 2 PV service	\$/Request	\$87.19	\$89.30	<b>\$90.81</b>	\$93.92	\$97.12

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## **APPENDIX 6 - SCS PRICING MODEL**

Please refer to separate excel workbook titled *Power and Water Corporation – 2021-22 SCS Pricing Model – 31 March 2021 – Public*.

## **APPENDIX 7 - ACS PRICING MODEL**

Please refer to separate excel workbook titled *Power and Water Corporation – 2021-22 ACS Pricing Model – 31 March 2021 – Public*.