

# PRELIMINARY DECISION AusNet Services distribution determination 2016 to 2020

## Attachment 11 – Service target performance incentive scheme

October 2015



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#### Note

This attachment forms part of the AER's preliminary decision on AusNet Services' revenue proposal 2016–20. It should be read with all other parts of the preliminary decision.

The preliminary decision includes the following documents:

#### Overview

Attachment 1 - Annual revenue requirement

Attachment 2 - Regulatory asset base

Attachment 3 - Rate of return

Attachment 4 - Value of imputation credits

Attachment 5 - Regulatory depreciation

Attachment 6 - Capital expenditure

Attachment 7 - Operating expenditure

Attachment 8 - Corporate income tax

Attachment 9 - Efficiency benefit sharing scheme

Attachment 10 - Capital expenditure sharing scheme

Attachment 11 - Service target performance incentive scheme

Attachment 12 - Demand management incentive scheme

Attachment 13 - Classification of services

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#### **Shortened forms**

Shortened form	Extended form	
AEMC	Australian Energy Market Commission	
AEMO	Australian Energy Market Operator	
AER	Australian Energy Regulator	
AMI	Advanced metering infrastructure	
augex	augmentation expenditure	
capex	capital expenditure	
CCP	Consumer Challenge Panel	
CESS	capital expenditure sharing scheme	
CPI	consumer price index	
DRP	debt risk premium	
DMIA	demand management innovation allowance	
DMIS	demand management incentive scheme	
distributor	distribution network service provider	
DUoS	distribution use of system	
EBSS	efficiency benefit sharing scheme	
ERP	equity risk premium	
Expenditure Assessment Guideline	Expenditure Forecast Assessment Guideline for electricity distribution	
F&A	framework and approach	
MRP	market risk premium	
NEL	national electricity law	
NEM	national electricity market	
NEO	national electricity objective	
NER	national electricity rules	
NSP	network service provider	
opex	operating expenditure	
PPI	partial performance indicators	
PTRM	post-tax revenue model	
RAB	regulatory asset base	
RBA	Reserve Bank of Australia	
repex	replacement expenditure	

Shortened form	Extended form
RFM	roll forward model
RIN	regulatory information notice
RPP	revenue and pricing principles
SAIDI	system average interruption duration index
SAIFI	system average interruption frequency index
SLCAPM	Sharpe-Lintner capital asset pricing model
STPIS	service target performance incentive scheme
WACC	weighted average cost of capital

#### 11 Service target performance incentive scheme

Under clause 6.3.2 of the National Electricity Rules our regulatory determination must specify how any applicable service target performance incentive (STPIS) is to apply in the next regulatory control period.

This attachment sets out how we will apply the STPIS to AusNet Services for the 2016–20 regulatory control period.

#### **AER's service target performance incentive scheme**

We published the current version of our national STPIS in November 2009. The STPIS is intended to balance incentives to reduce expenditure with the need to maintain or improve service quality. It achieves this by providing financial incentives to distributors to maintain and improve service performance where customers are willing to pay for these improvements.

#### 11.1 Preliminary decision

Consistent with our framework and approach (F&A) position on STPIS, our preliminary decision is to apply the STPIS to AusNet Services for the 2016–20 in the following manner:

- set revenue at risk for AusNet Services at the range ± 5.0 per cent
- segment AusNet Services' network according to feeder categories CBD, urban, short and long rural
- apply reliability of supply parameters of:
  - system average interruption duration index (SAIDI)
  - system average interruption frequency index (SAIFI)
  - momentary interruption frequency index event or MAIFI
  - customer service (telephone answering).
- set performance targets based on the AusNet Services' average performance over the past five regulatory years
- apply the methodology indicated in the national STPIS for excluding specific events from the calculation of annual performance targets
- apply the methodology and value of customer reliability (VCR) values to the calculation of incentive rates using the latest VCR for Victoria.

<sup>&</sup>lt;sup>1</sup> AER, *Electricity distribution network service providers—service target performance incentive scheme*, 1 November 2009. (AER, *STPIS*, November 2009).

In making our preliminary decision on the STPIS, we have taken into account our F&A, AusNet Services' regulatory proposal, our information requests to AusNet Services and submissions raised by stakeholders. Our response to the matters raised by AusNet Services and stakeholders about the application of the STPIS are discussed in this preliminary decision.<sup>2</sup>

Table 11-1 and present our preliminary decision on the applicable incentives rates and targets that will be applied to AusNet Services' STPIS for the 2016–20 regulatory period. The incentive rate for the customer service component will be -0.040 per cent per unit of the telephone answering parameter.<sup>3</sup>

Table 11-1 Preliminary decision—STPIS incentive rates for AusNet Services for the 2016–20 regulatory period

	Urban	Short rural	Long rural
SAIDI	0.09226	0.07329	0.03324
SAIFI	7.04869	6.53258	2.98632
MAIFI	0.56390	0.52261	0.23891

Source: AER Analysis.

<sup>&</sup>lt;sup>2</sup> AusNet Services, Vic. EDPR - AusNet Services - IR#003, 24 June 2015; AusNet Services, Vic. EDPR - AusNet Services - IR#003, 2 July 2015.

<sup>&</sup>lt;sup>3</sup> AER, *STPIS*, November 2009, cl. 5.3.2(a).

Table 11-2 Preliminary decision—STPIS reliability targets for AusNet Services for the 2016–20 regulatory period

	value		
Urban			
SAIDI	81.860		
SAIFI	1.105		
MAIFI	2.799		
Short rural			
SAIDI	188.504		
SAIFI	2.299		
MAIFI	5.830		
Long rural			
SAIDI	234.597		
SAIFI	2.838		
MAIFI	11.380		
Telephone answering			
Percentage of calls will be answered within 30 seconds	80.33		

Source: AER analysis.

#### 11.2 Our framework and approach paper

We are required to set out our likely approach on how to apply our STPIS in our framework and approach (F&A) paper.<sup>4</sup> Our final F&A for Victorian electricity distributors proposed to apply our national STPIS to the Victorian businesses but not apply the guarantee service level (GSL) component.<sup>5</sup> It also proposed to apply the revised values for VCR through the distribution determination.<sup>6</sup>

Our F&A did not specify the application method for the Momentary Average Interruption Frequency Index (MAIFI) component of STPIS.

<sup>&</sup>lt;sup>4</sup> NER, cll. 6.3.2, 6.8.1(b), 6.8.2(c)(2), 6.8.2(d) and 6.12.1.

<sup>&</sup>lt;sup>5</sup> AER, Final framework and approach for the Victorian Electricity Distributors, regulatory control period commencing 1 January 2016, 24 October 2014, pp. 96–97.

<sup>&</sup>lt;sup>6</sup> Values determined from the most recent Australian Energy Market Operator (AEMO) review of VCR values.

#### 11.3 AusNet Services' proposal

AusNet Services' regulatory proposal submitted that we should depart from our F&A position in setting its STPIS for the next regulatory control period. It raised a number of interrelated issues for our consideration. Primarily, AusNet Services stated that applying a lower VCR to capex has implications on reliability and as such the STPIS should be modified to reflect this change. Hence, the STPIS targets should be adjusted accordingly.<sup>7</sup>

AusNet Services' regulatory proposal also submitted that we should vary clause 3.3 STPIS to include an additional exclusion condition for load shedding and load interruptions that are caused by new non-network solutions programs.<sup>8</sup>

Section 11.7 below sets out our considerations on the matters submitted.

#### 11.4 AER's assessment approach

We are required to make a decision on how the STPIS is to apply to AusNet Services. When making a distribution determination, the STPIS requires us to determine all performance targets, incentive rates, revenue at risk and other parameters under the scheme. <sup>10</sup>

We outlined our proposed approach to, and justification for, the application of the STPIS in our F&A for Victorian electricity distributors. Our preliminary decision has adopted the position in the F&A, unless new information has become available or new arguments have been put forward which warrants a reconsideration of this position. We have considered materials submitted to us by AusNet Services and by stakeholders.

#### 11.4.1 Interrelationships

In applying the STPIS we must consider any other incentives available to the distributor under the NER or relevant distribution determination. One of the objectives of the STPIS is to ensure that the incentives are sufficient to offset any financial incentives the distributor may have to reduce costs at the expense of service levels. For the 2016–20 regulatory control period, the STPIS will interact with the Capital Expenditure Sharing Scheme (CESS) and the opex Expenditure Benefit Sharing Scheme (EBSS).

The reward and penalty amounts (the incentive rates) under STPIS are determined based on the average customer value for the improvement, or otherwise, to supply

AusNet Electricity Services Pty Ltd, Electricity Distribution Price Review 2016-20, 30 April 2015, pp. 247–249.

<sup>&</sup>lt;sup>8</sup> AusNet Electricity Services Pty Ltd, Electricity Distribution Price Review 2016-20, 30 April 2015, pp. 247–249.

<sup>&</sup>lt;sup>9</sup> NER, cl. 6.12.1(a).

<sup>&</sup>lt;sup>10</sup> AER, *STPIS*, November 2009, cl. 2.1(d).

<sup>&</sup>lt;sup>11</sup> NER, cl. 6.6.2(b)(3)(iv).

<sup>&</sup>lt;sup>12</sup> AER, STPIS, November 2009, cl. 1.5(b)(5).

reliability (the VCR). This is aimed at ensuring that the distributor's operational and investment strategies are consistent with customers' value for the services that are offered to them.

Our capex and opex allowances are set to reasonably reflect the expenditures required by a prudent and efficient business to achieve the capex and opex objectives. These include complying with all applicable regulatory obligations and requirements and, in the absence of such obligations, maintaining quality, reliability, and security outcomes.

The STPIS on the other hand provides an incentive for distributors to invest in further reliability improvements (via additional STPIS rewards) where customers are willing to pay for it. Conversely, the STPIS penalises distributors where they let reliability deteriorate. Importantly, the distributor will only receive a financial reward after actual improvements are delivered to the customers.

In conjunction with CESS and EBSS, the STPIS will ensure that:

- any additional investments to improve reliability are based on prudent economic decisions
- reductions in capex and opex are achieved efficiently, rather than at the expense of service levels to customers.

#### 11.5 Reasons for preliminary decision

The following section sets out our detailed consideration on:

- applying the STPIS to AusNet Services for the 2016–20 regulatory control period
- transitional matters in the applying the STPIS between regulatory control periods
- proposed variation of clause 3.3 of the STPIS
- whether we should adjust the STPIS performance targets for potential bush fire related expenditure
- how we will apply the STPIS to AusNet Services.

#### 11.6 Applying the STPIS

We will apply the STPIS in accordance with our framework and approach paper to AusNet Services. For the reasons outlined in section 11.7 we have not accepted AusNet Services' proposal to depart from our F&A in applying the STPIS.<sup>13</sup>

AER, Final framework and approach for the Victorian Electricity Distributors, regulatory control period commencing 1 January 2016, 24 October 2014, pp. 96–97.

#### 11.6.1 Revenue at risk

AusNet Services proposed to adopt our F&A position to apply the standard STPIS for the forthcoming regulatory period. Hence, we will set the revenue at risk cap for each regulatory year of the 2016–20 regulatory control period at  $\pm$  5.0 per cent as per the scheme standard. There is also a cap on the revenue at risk of  $\pm$  0.5 per cent for the telephone answering parameter.

#### 11.6.2 Reliability of supply component

#### **Applicable components and parameters**

We will apply unplanned SAIDI, unplanned SAIFI and MAIFI parameters under the reliability of supply component to AusNet Services' urban, short and long rural feeders for the 2016–20. Unplanned SAIDI measures the sum of the duration of each unplanned sustained customer interruption (in minutes) divided by the total number of distribution customers. Unplanned SAIFI measures the total number of unplanned sustained customer interruptions divided by the total number of distribution customers. MAIFI captures the average number of 'momentary' disruptions on the network.

#### **Exclusions**

The STPIS allows certain events to be excluded from the calculation of the S-factor revenue adjustment. These exclusions include the events that are beyond the control of AusNet Services, such as the effects of transmission network outages and other upstream events. They also exclude the effects of extreme weather events that have the potential to significantly affect AusNet Services' STPIS performance.

Our F&A paper stated that we will apply the methodology indicated in the national STPIS for excluding specific events from the calculation of annual performance targets. The default method for calculating the MED in the STPIS is to apply the 2.5 beta method. However, subject to our approval distributors can propose a major event day boundary that is greater than 2.5 standard deviations from the mean.<sup>14</sup>

AusNet Services proposed to calculate the major event day (MED) thresholds using the 2.8 beta method in accordance with appendix D of the STPIS. We accept AusNet Services application of the 2.8 beta method to calculate the MED. This method, is consistent with our current determination for Victorian distributors and the higher the beta the lesser the number of MED events that can be excluded and a higher level of accountability on the distributor's performance outcomes.

<sup>&</sup>lt;sup>4</sup> AER, STPIS, November 2009, Appendix D.

<sup>&</sup>lt;sup>15</sup> AusNet Services, 2016–20 Regulatory proposal, April 2015, p. 140.

#### 11.6.3 Performance targets

The STPIS specifies that the performance targets should be based on the average performance over the past five regulatory years. It also stated that the performance target must be modified for any reliability improvements completed or planned where the planned reliability improvements are:<sup>16</sup>

- included in the expenditure program proposed by the distributor in its regulatory proposal, or
- proposed by the distributor, and the cost of the improvements is allowed by the relevant regulator, in the distributor's previous regulatory proposal or regulatory submission, and
- expected to result in a material improvement in supply reliability.

AusNet Services proposed to set the performance targets based on historical averages as per the scheme but, with modification because of the application of a lower VCR for capex planning purposes. Our discussion and reasoning about the application of the VCR on the STPIS is outlined section 11.7. In accordance with our reasoning in that section we have also not accepted AusNet Services' proposal to depart from our F&A and will apply the scheme as is. That is, AusNet Services' performance targets will be based on its five years historical average.

Consequently, our calculated performance targets for AusNet Services for the 2016–20 regulatory control period are presented in Table 11-3.

<sup>&</sup>lt;sup>16</sup> AER, *STPIS*, November 2009, cl. 3.2.1.

Table 11-3 Preliminary decision—STPIS reliability targets for AusNet Services for the 2016–20 regulatory period

	value		
Urban			
SAIDI	81.860		
SAIFI	1.105		
MAIFI	2.799		
Short rural			
SAIDI	188.504		
SAIFI	2.299		
MAIFI	5.830		
Long rural			
SAIDI	234.597		
SAIFI	2.838		
MAIFI	11.380		
Telephone answering			
Percentage of calls will be answered within 30 seconds	80.33		

Source: AER analysis.

#### 11.6.4 Customer service component

The national STPIS customer service target applicable to AusNet Services is telephone response measured as the number of telephone calls answered within 30 seconds. This measure is referred to as the telephone Grade of Service (GOS).

We accept AusNet Services' customer service targets as it has applied a 5 year's historical average to derived them for the next regulatory control period. This is consistent with our national STPIS.<sup>17</sup>

<sup>&</sup>lt;sup>17</sup> AER, STPIS, November 2009, cl. 5.3.1(a).

#### 11.6.5 Incentive rates

The incentive rates applicable to AusNet Services for the reliability of supply performance parameters of the STPIS have been calculated in accordance with clause 3.2.2 and using the formulae provided as appendix B of the National STPIS. Our preliminary decision of AusNet Services' incentive rates are at Table 11-4. The incentive rate for the customer service component will be -0.040 per cent per unit of the telephone answering parameter.<sup>18</sup>

Table 11-4 Preliminary decision—STPIS incentive rates for AusNet Services for the 2016–20 regulatory period

	Urban	Short rural	Long rural
SAIDI	0.09226	0.07329	0.03324
SAIFI	7.04869	6.53258	2.98632
MAIFI	0.56390	0.52261	0.23891

Source: AER Analysis.

#### 11.7 Reasons for not departing from our F&A

#### 11.7.1 Value of customer reliability

The core rationale put forward by AusNet Services to depart from our F&A position on the STPIS revolves around the change in VCR. This section will first explain the value of customer reliability in order to conceptualise the issues raised by AusNet Services prior to our consideration of its proposed change.

The VCR represents, in dollar terms, the willingness of customers to pay for the reliable supply of electricity. The values are typically derived from customer surveys.

The outcome of the survey or VCR can then be applied for use in incentive regulation, planning and operational purposes in the National Electricity Market. In network planning, the VCR may be used by electricity distributors to assess the economic merits of carrying out additional investment in the electricity network. It is therefore important the VCR figures accurately reflect the value of reliability across a range of customers. The VCR is also used to set the incentive rates under the STPIS. A lower VCR reduces the reward and penalty under the scheme, whereas a higher VCR increases them.

In 2014, the Australian Energy Market Operator (AEMO) carried out a review of the VCR. The intention of this review was to improve the understanding of the level of

<sup>&</sup>lt;sup>18</sup> AER, *STPIS*, November 2009, cl. 5.3.2(a).

reliability that customers expect by producing a range of VCR values for residential and business customers across the National Electricity Market.<sup>19</sup>

As a result of the AEMO review, the Victorian composite VCR was significantly reduced to \$39.50 per kWh (\$ 2014), a reduction of approximately 40 per cent, from the STPIS scheme specification value of \$63.09 per kWh (\$ 2014). The actual VCR for setting the STPIS incentive rates for the 2011–15 period is \$54.92 per kWh (\$ 2014).

Our F&A paper stated that we will apply the latest VCR in the STPIS for the Victorian electricity distributors. AusNet Service's regulatory proposal accepted our use of the latest VCR to assess capex but outlined that we should depart from our F&A position on the STPIS. It stated that we should relax its performance targets to account for a lower VCR.<sup>20</sup>

AusNet Services submitted, amongst other things, that if a lower VCR is adopted by us, the reliability of its networks decline marginally.<sup>21</sup>

Put simply, AusNet Services submitted that a lower VCR will result in less monetary value being attributed to the energy associated with supply interruptions that cannot be serviced should parts of its networks fail (energy at risk). Hence, augmentation projects will be implemented later than otherwise. It also stated that the lower VCR will also cause certain station rebuilds (replacement capex) to become economically unjustified.<sup>22</sup>

#### 11.7.2 Departing from our F&A due to VCR

The STPIS states that performance targets must be based on average performance over the past five regulatory years. However, distributors may seek a variation in targets as long as they are in accordance with the scheme.<sup>23</sup>

AusNet Services' regulatory proposal submitted that we should depart from our F&A by modifying its performance targets to account for a lower VCR for capex planning purposes. It stated that it will defer capex as a result of a lower VCR value. Hence, reliability will be affected due to the capex deferrals.<sup>24</sup>

We consider that AusNet Services has not demonstrated that departing from our F&A position on the application of the STPIS is reasonable or necessary because:

1. The VCR has varied between years but there has been no net movement in its value between previous (2006–10 and 2011–2015) regulatory periods, and

<sup>&</sup>lt;sup>19</sup> AEMO, Value of customer reliability review final report, September 2014.

AusNet Electricity Services Pty Ltd, Electricity Distribution Price Review 2016-20, 30 April 2015, pp. 247–249.

<sup>&</sup>lt;sup>21</sup> AusNet Electricity Services Pty Ltd, *Electricity Distribution Price Review 2016-20*, 30 April 2015, p. 243.

AusNet Electricity Services Pty Ltd, Electricity Distribution Price Review 2016-20, 30 April 2015, p. 153.

<sup>&</sup>lt;sup>23</sup> AER, STPIS, November 2009, cl. 5.3.1.

AusNet Electricity Services Pty Ltd, Electricity Distribution Price Review 2016-20, 30 April 2015, p. 248.

- forthcoming (2016–20) regulatory control periods, for the purpose of setting STPIS targets. That is, the VCR value in 2010 is almost identical to that in 2016.
- 2. There appears to be limited or clear co-relation between the VCR and AusNet Services reliability outcomes.
- AusNet Services did not seek an upward adjustment to tighten the STPIS targets for the current period (2011–15) when the VCR rose from the previous (2006–10) period.

These points are addressed below.

## No variation in the VCR between the previous and the forthcoming regulatory periods

There has been no net movement in the value of the VCR between the two regulatory periods commencing in 2006 (see Figure 11-1), for the purpose of setting STPIS targets:

- In the 2006–10 determination (by the Essential Services Commission of Victoria), a VCR of \$39,456 per MWh (\$ 2014) was used as the basis for setting the incentive rates of the previous Victorian equivalent of the STPIS.<sup>25</sup>
- In our current 2011–15 distribution determination, a VCR of \$54,922 per MWh
   (\$ 2014) was used to calculate the incentive rates. However, the performance
   targets for the 2011–15 period were based on the actual performance outcomes of
   the 2006–10 period when the VCR was \$39,456 per MWh (\$ 2014) without
   adjustments.
- The most recent study by AEMO indicates that the Victorian state-wide VCR is now \$39,500 per MWh (\$ 2014)—practically at the same level as the 2006–10 period.

Essential Services Commission (Victoria), *Electricity Distribution Price Revie 2006–10, Final Decision volume 1 Statement of Purpose and Reasons*, October 2005, p. 88.

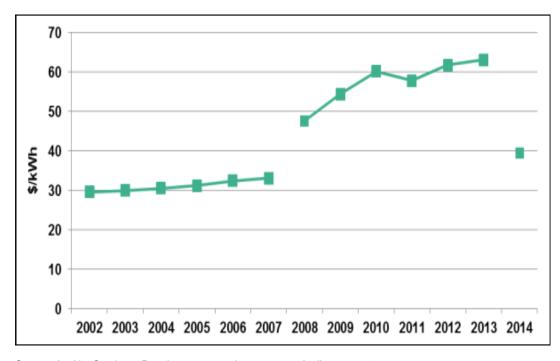


Figure 11-1 Historical Victorian VCR (nominal)

Source: AusNet Services, Regulatory proposal 2016–20, 30 April 2015, p. 120.

Consistent with, our recent final determinations for NSW and ACT distributors, and preliminary determinations for Qld and SA distributors, we have not varied the STPIS targets due to a change in VCR. In doing so, and as shown in Figure 11-1, we consider that the VCR will vary between years and that:

- over the long term the scheme will automatically adjust for this variation in VCR via strengthening or weakening the performance targets and incentive rates. That is, the performance targets in the future periods will be based on historical performance that reflects the historical VCR value.
- an adjustment to the STPIS may be appropriate if the VCR remains below its recent average for a lengthy period.

## Limited relationship between VCR and AusNet Services current reliability improvement

The STPIS states that performance targets must be based on average performance over the past five regulatory years. As stated above, AusNet Services' regulatory proposal submitted that we should modify its performance targets to reflect the lower VCR for capex planning purposes.

We consider that performance targets should not be modified due to a change in the VCR. Our review of AusNet Services' regulatory proposal found little evidence to

suggest that the value of the VCR will marginally impact on reliability as claimed.<sup>26</sup> AusNet Services asserts that applying a lower VCR for capex purposes will result in a marginal decline in reliability in the next regulatory period. Contrary to the above assertion concerning the effect of VCR on reliability performance, AusNet Services attributed its improved reliability performance in the current regulatory period to other factors (see below) and not to the increase in the VCR value (see Figure 11-2 and Figure 11-3).

As such, we consider that the improvement is more likely due to the higher level of incentives approved for AusNet Services in the current period (a higher than the normal STPIS scheme standard of  $\pm$  7.0 per cent revenue at risk; and a 2.8 beta threshold for major event day (MED) exclusion level—the higher the beta the lesser the number of MED events that can be excluded and a higher level of accountability on the distributor's performance outcome). In effect the scheme was adjusted to provide both higher incentive rates and revenue at risk (greater rewards and penalties) over the current period.

We note that, in its published planning report and regulatory proposal capex overview, AusNet Services attributed the reliability improvement of its SAIDI measures to smart asset management and investment in feeder automation, installation of automatic circuit recloser and animal proofing measures. These measures demonstrate that AusNet Services have invested more to respond to the STPIS incentive by improving network operational arrangements, rather than addressing network capacity shortfalls. Put simply, these measures have little connection to the level of energy at risk (the energy at risk is used as a basis on whether to augment the network).<sup>27</sup>

Furthermore, we note that in its regulatory proposal AusNet Services stated that:

It intended to spend \$38 million on programs that improve the reliability performance of the network. These improvements are not directly funded through the current EDPR, but rather through future STPIS incentive payments if the projects successfully improve reliability.<sup>28</sup>

The above indicates that AusNet Services is responding to the incentive of the STPIS rather than the VCR value.

AusNet Services also contended that a lower VCR will also have impact on its asset replacement capex.<sup>29</sup> We disagree with the contention that replacement capex will be materially affected by a lower VCR. We consider that the prime driver for asset

AusNet Services, 2016–20 Regulatory proposal, 30 April 2015, p. 137; AusNet Services, Vic. EDPR - AusNet Services - IR#003, 24 June 2015; AusNet Services, Vic. EDPR - AusNet Services - IR#003, 2 July 2015.

AusNet Services, *Distribution Annual Planning Report 2015 – 2019*, 19 December 2014, p. 72; AusNet Services, *EDPR 2016–20 Appendix 7A: Network Capital Expenditure Overview 2016-2020*, April 2015, p. 16.

AusNet Electricity Services Pty Ltd, Electricity Distribution Price Review 2016-20, 30 April 2015, p. 112.

AusNet Services, 2016–20 Regulatory proposal, 30 April 2015, p. 137; AusNet Services, Vic. EDPR - AusNet Services - IR#003, 24 June 2015; AusNet Services, Vic. EDPR - AusNet Services - IR#003, 2 July 2015.

replacement is the physical condition of that asset and to certain extent, the trade-off between capex and opex.

Further, we reviewed the other three distributors—CitiPower, Powercor and United Energy—who also sought similar adjustments to their performance targets. We also found little evidence to suggest that the VCR will have an immediate impact on reliability for these three distributors.<sup>30</sup>

That said, we consider that AusNet Services' reliability performance is more likely to be influenced by other factors, other than the VCR, such as the configuration and condition of its network assets. Further, most network assets have an expected life in excess of 50 years, therefore, by discounting for uncontrollable external impacts such as material weather events, AusNet Services' reliability level should not change abruptly with a lower VCR for planning purposes.

As such we consider that AusNet Services has not demonstrated that its assertion that reliability will marginal decline in the next regulatory period is due to a lower VCR.

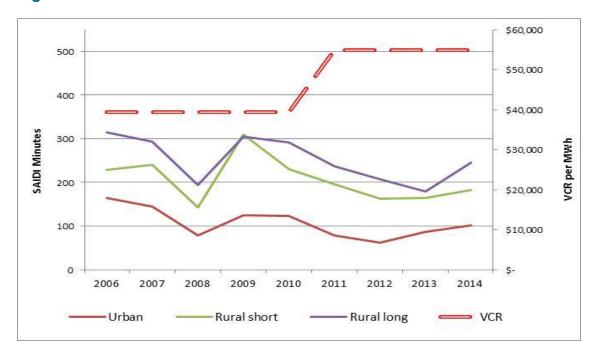


Figure 11-2 Historical SAIDI

Source: AER analysis.

AER, Preliminary decision Powercor distribution determination 2016 to 2020 Attachment 11 – Service target performance incentive scheme, October 2015; AER, Preliminary decision CitiPower distribution determination 2016 to 2020 Attachment 11 – Service target performance incentive scheme, October 2015; AER, Preliminary decision United Energy distribution determination 2016 to 2020 Attachment 11 – Service target performance incentive scheme, October 2015.

\$60,000 7 \$50,000 6 \$40,000 5 SAIFI frquency \$30,000 per MWh 3 \$20,000 VCR 2 \$10,000 1 0 2012 2007 2009 2010 2013 2014 2006 2008 2011 Urban Rural short - Rural long • VCR

Figure 11-3 Historical SAIFI

Source: AER analysis.

#### Relaxing STPIS for lower VCR but not increasing it for higher VCR

As outlined above, there is no clear correlation between the VCR and reliability. AusNet Services' regulatory proposal submitted its performance targets should be relaxed for a lower VCR in the next regulatory period. We observe that there is asymmetry in AusNet Services' regulatory proposals, as it did not seek to have its performance targets tightened in the current regulatory period for a 40 per cent increase in the VCR for capex planning purposes.

AusNet Services benefited from a higher VCR in the current regulatory period—with no tightening of its performance targets. As such, we consider it is not in the long term interest of consumers to allow it to also benefit from a lower VCR with a softening of its performance targets. We consider this asymmetric treatment is contrary to the NEO and the objectives of the scheme.<sup>31</sup>

In conclusion, we consider that AusNet Services has not made the case that supply reliability level will change immediately after the VCR value is changed. Even if its reasoning were proven, since the VCR is now back to the previous level, such adjustment to STPIS performance targets is not required—as there should have been a previous equal and opposite adjustment for the 2011–15 performance targets.

<sup>&</sup>lt;sup>31</sup> AER. STPIS, November 2009, cl. 1.5(b)(1).

#### Stakeholders' submissions

The Victorian Department of Economic Development, Jobs, Transport & Resources (DEDJTR) raised concerns about this proposal. The consumer challenge panel suggested that we should reject AusNet Services' assertion about a lower VCR and reliability performance.

#### The DEDJTR stated that:

AusNet Services, CitiPower and Powercor have proposed that the targets for the STPIS should be decreased in line with the reduced VCR, despite not seeking an increase in targets in line with the increased VCR for the 2011–15 regulatory control period.

The AER needs to ensure that the targets for the STPIS are consistent with the expenditure forecasts that are provided. If the AER provides expenditure to maintain reliability, then the targets should not be adjusted and the DNSPs should be penalised for any reduction in reliability through the STPIS. If the AER does not provide expenditure to maintain reliability as a result of the lower VCR, then the targets should be adjusted accordingly.<sup>32</sup>

#### The consumer challenge panel considered that:

The impact of changing VCR will be minimal in the short term as the bulk of assets providing the reliability were implemented under the higher values of VCR used in the past, along with deterministic reliability settings used before probabilistic tools were used. Overall, reliability across the networks should be maintained because the decisions for historic investments which comprise the vast majority of the network assets were made using higher standards. As the STPIS reflects historic performance, the impact of the slight deferrals that will now apply through the use of a lower VCR will change over time to reflect the outcomes of using a lower VCR.

CCP3 does not consider that the approach to setting reliability levels for the STPIS incentive needs to be changed as a result of the lower VCR. 33

These submissions reinforce our preliminary decision that we should not depart from our F&A on this matter.

#### 11.8 Other considerations in applying the STPIS

### 11.8.1 Amending the STPIS for an additional exclusion condition

AusNet Services' regulatory proposal outlined that we should modify the definition of exclusion in our STPIS to include an additional clause stating:

Victorian Department of Economic Development, Jobs, Transport & Resources, Submission to Victorian electricity distribution pricing review – 2016 to 2020, July 2015, p. 10.

Consumer Challenge Panel Sub Panel 3, Response to proposals from Victorian electricity distribution network service providers for a revenue reset for the 2016-2020 regulatory period, 5 August 2015, p. 61.

load shedding or load interruption due to the failure of a new contracted non-network solution entered into in the current regulatory control period.<sup>34</sup>

We do not accept this proposed inclusion to the definition of exclusion because it will transfer the financial risk of non-network solution from non-network solution operators to the customers. Non-network solution operators and AusNet Services are the parties best placed to manage the risk rather than customers.

Further, changes of such magnitude should be comprehensively consulted with all stakeholders.

In its submission, DEDJTR stated that the use of non-network solutions should be encouraged as an alternative to augmenting the network, particularly in an environment of weakening demand growth. However, customers should not bear these risks.<sup>35</sup>

The Consumer Challenge Panel suggested that:

It is aware that the AER has moved to exclude as few limitations to the assessments of inputs as possible in its decisions. CCP3 supports this as consumers experience total costs and reliability as a package, uninfluenced by the network's experiences. Further, CCP3 sees that the incentives need to be seen as a package.

On this basis, CCP3 considers that no exclusions should be made to the approach used by the AER in its scheme specification as this will change the balance of the incentives. <sup>36</sup>

## 11.8.2 Adjusting the STPIS targets for potential bushfire related expenditure

We received a submission from the Victorian Department of Economic Development, Jobs, and Transport & Resources outlining that AusNet Services' reliability targets should reflect the reliability improvements made from the Victorian Government's Power line Bushfire Safety Program.<sup>37</sup>

It stated that the Victorian Government is funding power line replacement in the most dangerous areas of the state and is currently considering regulating the installation of Rapid Earth Fault Current Limiters (REFCLs) in the highest consequence bushfire risk areas and automatic circuit reclosers on Single Wire Earth Return power lines in rural

AusNet Electricity Services Pty Ltd, Electricity Distribution Price Review 2016—0, 30 April 2015, p. 246.

Victorian Department of Economic Development, Jobs, Transport & Resources, Submission to Victorian electricity distribution pricing review – 2016 to 2020, July 2015, p. 12.

Consumer Challenge Panel Sub Panel 3, Response to proposals from Victorian electricity distribution network service providers for a revenue reset for the 2016-2020 regulatory period, 5 August 2015, p. 62.

Victorian Department of Economic Development, Jobs, Transport & Resources, Submission to Victorian electricity distribution pricing review – 2016 to 2020, 12 July 2015, pp. 9–10.

areas. Both the power line replacement and REFCLs are expected to improve the supply reliability in the areas targeted.

We agree that the installation of these safety measures may impact on the reliability of supply but cannot consider the proposal in our preliminary decision. The legislation of this program is yet to be completed and, as such, we do not have the relevant information in order to make such an adjustment.<sup>38</sup>

That said, the scheme has provisions to make adjustments to AusNet Services' performance targets in the 2021–2025 regulatory control period for capex that may improve reliability. This will ensure that consumers are not paying for the expenditure again through STPIS for improvement factored in this expenditure.<sup>39</sup>

#### 11.8.3 Value of customer reliability to calculate the incentive rates

Our F&A paper stated that we will apply a revised value for VCR through the distribution determination in calculating AusNet Services' incentive rates. 40 For this preliminary decision, we have calculated AusNet Services' VCR for the incentive rates by deriving it from AusNet Services' consumption data, the other Victorian electricity distributors' consumption data and AEMO's published state wide VCR. The steps are:

- First, calculate the VCR for CBD based on the assumption that all CBD consumptions are commercial loads. The expected error for the resultant VCR for CBD is small.
- Then calculate the VCR for urban and rural feeders by dividing the "difference between [all state wide consumption \* state wide VCR] and [CBD consumption \* VCR for CBD network]" by the "difference between all state wide consumption and CBD consumption".

The VCR for network segments is outlined in Table 11-5. We have applied this VCR to calculate its incentives rates for 2016-20.

Table 11-5 Value of customer reliability (\$/MWh)

	Urban	Short rural	Long rural
VCR	39,026.67	39,026.67	39,026.67

Source: AER Analysis and AEMO, Value of customer reliability review, final report, September 2014, p. 30. VCR values have been escalated to the June 2015 quarter.

AER, Electricity distribution network service providers—service target performance incentive scheme, 1 November 2009. (AER, STPIS, November 2009).

There is currently no certainty on the scope, implementation timeframe or the magnitude of the program.

AER, STPIS, November 2009, cl. 3.2.1.

We consider that this approach should deliver better relativity between the calculated VCR for CBD networks and the VCRs for all other networks. AusNet Services stated that this method appears to be reasonable in its response to our information request for energy consumption data.<sup>41</sup>

#### 11.9 Transitional arrangements for the STPIS

This section addresses the following transitional issues relating the STPIS:

- how we intend to adjust the S-factor between regulatory control periods
- how we intend to account for revenue increments or decrements resulting from the STPIS outcomes between regulatory control periods
- how we will close out Essential Services Commission service performance scheme for 2006–10.

## 11.9.1 Adjusting the S-factor between regulatory control periods

The STPIS operates as part of the building block determination and is applied via the control mechanism. Through the s-factor component of the STPIS, distributors are penalised or rewarded for diminished or improved service performance compared to predetermined targets. Distributors are either rewarded or penalised via network charges two years after the end of each regulatory year because audited performance data would only be available after the regulatory year is completed—hence, the earliest time the S-factor can apply is the year following audited performance data availability.

Consequently, the S-factor outcomes of 2014 and 2015 will apply to prices in the 2016 and 2017 regulatory years respectively.

The revenue at risk caps the risk of the STPIS to AusNet Services at five per cent. However, distributors may exceed this cap where there are increases or decreases to the amount of the annual allowable revenue that they can recover between regulatory control periods. The STPIS scheme accounts for the differences to the allowable revenue recoverable between regulatory control periods by making an adjustment to the "raw" S-factor for the last and second last regulatory years of the current regulatory control period (which is applied in the first and second regulatory years of the next regulatory control period) by adjusting the raw S-factor value based on:

the percentage change between the annual revenue requirement in the last regulatory year of the previous regulatory control period and the annual

AusNet Services, Vic. EDPR - AusNet - IR#005 - 23 June 2015.

<sup>&</sup>lt;sup>42</sup> "Raw" refers to the S-factor prior to any adjustments.

revenue requirement for first regulatory year of the next regulatory control period taken from the post-tax revenue model. 43

Hence, the revenue at risk cap for the first two years of the next regulatory control period will be adjusted based on the approved revenue at risk cap of the previous regulatory control period.

## 11.9.2 Accounting for revenue increments decrements between regulatory periods

A distributor's performance in the last regulatory year of its regulatory control period will affect its revenue in the second regulatory year in the next regulatory control period.

For example, if a distributor has a regulatory control period of 5 regulatory years between 1 July 2007 and 30 June 2012, its performance in the 2011–12 financial year will affect its revenues in the second regulatory year of the next regulatory control period (that is from 1 July 2014).<sup>44</sup>

The STPIS provides a mechanism to account for any step change in revenues (or prices), via  $X_0^{45}$ , from one regulatory control period to the next. For AusNet services, the 'raw' s-factor calculated for the last and second last regulatory years of the regulatory control period (which is applied in the first and second regulatory years of the next regulatory control period) is adjusted in accordance with the following formula:<sup>46</sup>

$$S_t^{""} = \frac{S_t'}{1 - X_0}$$

Where:

- $\bullet \quad X_0 = \frac{AARR_{2014} AARR_{2015}}{AARR_{2014}}$
- $S_t^{""}$  is the sum of the s-factors for all parameters, after application of the s-bank, as determined in equation (3) in the STPIS
- AARR<sub>2014</sub> is AusNet Services' approved revenue in the 2016 pricing proposal
- AARR<sub>2015</sub> is AusNet Services' allowable revenue in the final determination 2017.

#### 11.9.3 Closing out of the ESCV's service performance scheme

<sup>&</sup>lt;sup>43</sup> AER, STPIS, November 2009, Appendix C, pp. 33–34.

<sup>&</sup>lt;sup>44</sup> AER, STPIS, November 2009, appendix C.

Defined as the percentage change between the annual revenue requirement in the last regulatory year of the previous regulatory control period and the annual revenue requirement for first regulatory year of the next regulatory control period taken from the post-tax revenue model, AER, STPIS, November 2009, Appendix C, pp. 33–34

<sup>&</sup>lt;sup>46</sup> AER, STPIS, November 2009, Appendix C, pp. 33–34.

Prior to the operation of STPIS from 2011, Victorian distributors were subjected to the Essential Services Commission Victoria's (ESCV) service performance scheme.

In order to close out the ESCV's scheme, we required the final performance data of the distributors' for 2010. As this information was not available in time for the final decision of the 2011–15 determination, a preliminary close out was factored into the current determination, requiring a final true-up when the final performance data are available. We will complete the close out calculation in the determination for the next regulatory period (2016–20). The calculation method on how to close out the ESCV's scheme was set out in our 2011–15 determination.

In 2012 the Victorian government amended the *National Electricity (Victoria) Act 2005*, to allow us the power to close out the ESCV's service performance scheme.<sup>47</sup> This amendment to the legislation does not alter or limit our approach to close out the scheme.

The financial penalty accrued by AusNet Services in the 2006–10 regulatory period in the allowable revenue for 2016–20 regulatory period will be –\$13.81 million (\$ 2015) in total. This amendment to the legislation does not alter or limit our approach to close out the scheme.

This number has been included in the forecast revenue for the forthcoming regulatory control period by including the adjustment in the 'revenue adjustments' row of the post-tax revenue model.

Energy Legislation Amendment Act 2012 (Victoria), s. 10.