

# FINAL DECISION AusNet Services distribution determination 2016 to 2020

# Attachment 5 – Regulatory depreciation

May 2016



and an entered

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### Note

This attachment forms part of the AER's final decision on AusNet Services' distribution determination for 2016–20. It should be read with all other parts of the final decision.

The final 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
- Attachment 14 Control mechanisms
- Attachment 15 Pass through events
- Attachment 16 Alternative control services
- Attachment 17 Negotiated services framework and criteria
- Attachment 18 f-factor scheme

## Contents

No	te			5-2
Со	nter	nts		5-3
Sh	orte	ned forr	ns	5-4
5	Re	gulatory	depreciation	5-6
	5.1	Final d	ecision	5-6
	5.2	AusNe	t Services' revised proposal	5-7
	5.3	Assess	sment approach	5-8
	5.4	Reasor	ns for final decision	5-8
		5.4.1	Standard asset lives	5-9
		5.4.2	Remaining asset lives	5-10
		5.4.3	Accelerated depreciation	5-14

## **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				
сарех	capital expenditure				
CCP	Consumer Challenge Panel				
CESS	capital expenditure sharing scheme				
СРІ	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

## **5** Regulatory depreciation

Depreciation is the allowance provided so capital investors recover their investment over the economic life of the asset (return of capital). In deciding whether to approve the depreciation schedules submitted by AusNet Services, we make determinations on the indexation of the regulatory asset base (RAB) and depreciation building blocks for AusNet Services' 2016–20 regulatory control period.<sup>1</sup> The regulatory depreciation allowance is the net total of the straight-line depreciation (negative) and the indexation (positive) of the RAB.

This attachment sets out our final decision on AusNet Services' regulatory depreciation allowance. It also presents our final decision on the revised proposed depreciation schedules, including an assessment of the revised proposed standard asset lives for depreciating forecast capex and the revised proposed depreciation approach for existing assets.

## 5.1 Final decision

We do not accept AusNet Services' revised proposed regulatory depreciation allowance of \$519.2 million (\$ nominal) for the 2016–20 regulatory control period.<sup>2</sup> Instead, we determine a regulatory depreciation allowance of \$475.3 million (\$ nominal). This amount represents a decrease of \$43.9 million (or 8.5 per cent) on AusNet Services' revised proposed amount. In coming to this decision:

- We accept AusNet Services' revised proposed asset classes, its straight-line depreciation method, and the standard asset lives used to calculate the regulatory depreciation allowance (section 5.4.1).
- We accept AusNet Services' revised proposal approach to depreciation associated with existing assets compared to its initial proposal. However, we have made some changes to the implementation of the approach to correct some modelling errors and improve clarity in the depreciation calculations (section 5.4.2).
- We accept AusNet Services' revised proposal to accelerate the depreciation of certain high bushfire risk assets. The changed depreciation schedules reflect new regulatory requirements that have changed the economic life of the assets (section 5.4.3).
- We made determinations on other components of AusNet Services' revised proposal which affect the forecast regulatory depreciation allowance—for example, the opening RAB at 1 January 2016 (attachment 2), expected inflation (attachment 3), and forecast capex (attachment 6).<sup>3</sup>

<sup>&</sup>lt;sup>1</sup> NER, cll. 6.12.1, 6.4.3.

<sup>&</sup>lt;sup>2</sup> AusNet services, *Revised regulatory proposal*, January 2016, p. 9-6.

<sup>&</sup>lt;sup>3</sup> NER, cl. 6.5.5(a)(1).

Table 5.1 sets out our final decision on the annual regulatory depreciation allowance for AusNet Services' 2016–20 regulatory control period.

# Table 5.1AER's final decision on AusNet Services' depreciationallowance for the 2016–20 regulatory control period (\$ million, nominal)

	2016	2017	2018	2019	2020	Total
Straight-line depreciation	183.8	173.2	184.1	190.2	203.0	934.3
Less: inflation indexation on opening RAB	80.0	85.4	91.9	97.8	103.9	459.0
Regulatory depreciation	103.8	87.8	92.1	92.4	99.1	475.3

Source: AER analysis.

### 5.2 AusNet Services' revised proposal

AusNet Services' revised proposal for the 2016–20 regulatory control period forecasts a total forecast regulatory depreciation allowance of \$519.2 million (\$ nominal).<sup>4</sup> AusNet Services amended its methodology for determining the remaining asset lives of its existing assets as part of calculating the regulatory depreciation allowance in response to the preliminary decision. To calculate the depreciation allowance, AusNet Services' revised proposal used:

- the straight-line depreciation method, consistent with that employed in our post-tax revenue model (PTRM)
- a revised closing RAB value at 31 December 2015 derived from the revised proposal roll forward model (RFM)
- a revised approach to calculate depreciation on the opening RAB based on the year-by-year tracking approach. Under this approach:
  - assets in existence at 1 January 2011 are depreciated by asset class using straight-line depreciation with the remaining lives determined in the 2010 final decision; and
  - capex in each year of the 2011 to 2015 period is grouped by asset class and separately depreciated over their standard lives as approved in the 2010 final decision.
- standard asset lives approved in the preliminary decision for depreciating new assets associated with forecast capex for the 2016–20 regulatory control period
- the value of accelerated depreciation assets approved in the preliminary decision
- a revised expected inflation rate
- the revised proposed forecast capex for the 2016–20 regulatory control period.

<sup>&</sup>lt;sup>4</sup> AusNet Services, *Revised regulatory proposal*, January 2016, p. 9-6.

Table 5.2 sets out AusNet Services' revised proposed depreciation allowance for the 2016–20 regulatory control period.

# Table 5.2AusNet Services' revised proposed depreciation allowance forthe 2016–20 regulatory control period (\$ million, nominal)

	2016	2017	2018	2019	2020	Total
Straight-line depreciation	184.5	175.5	190.1	197.5	211.0	958.6
Less: inflation indexation on opening RAB	75.4	81.2	88.3	94.2	100.3	439.4
Regulatory depreciation	109.1	94.3	101.8	103.3	110.7	519.2

Source: AusNet Services, *Revised regulatory proposal*, January 2016, p. 9-6.

#### 5.3 Assessment approach

Many aspects of our assessment approach for regulatory depreciation from our preliminary decision remain unchanged. Section 5.3 of our preliminary decision details the general approach.<sup>5</sup> However, we have accepted a change to the approach for the depreciation of existing assets for AusNet Services. Section 5.4.2 discusses this change as it affects the remaining asset lives for AusNet Services.

#### 5.4 Reasons for final decision

We determine a regulatory depreciation allowance of \$475.3 million (\$ nominal) for AusNet Services over the 2016–20 regulatory control period. In determining this allowance, we accept AusNet Services' revised proposed standard asset lives and its use of the year-by-year tracking approach to determine its straight-line depreciation of assets.

However, we reduced AusNet Services' revised proposed regulatory depreciation allowance by \$43.9 million (or 8.5 per cent). This amendment reflects our:

- changes to AusNet Services' implementation of the year-by-year tracking approach to correct some modelling errors (section 5.4.2)
- determinations regarding other components of AusNet Services' revised proposal for example, the opening RAB at 1 January 2016 (attachment 2), expected inflation (attachment 3),<sup>6</sup> and forecast capex (attachment 6)<sup>7</sup>—affecting the forecast regulatory depreciation allowance.

<sup>&</sup>lt;sup>5</sup> AER, Preliminary decision – AusNet Services determination 2016 to 2020, Attachment 5 – Regulatory depreciation, October 2015, pp. 8–10.

<sup>&</sup>lt;sup>6</sup> Our final decision approves a higher expected inflation rate compared to AusNet Services' revised proposal. This results in a larger inflation on opening RAB component being removed from straight-line depreciation, and therefore lower regulatory depreciation over the 2016–20 regulatory control period, all things being equal.

#### 5.4.1 Standard asset lives

We accept AusNet Services' revised proposed standard asset lives. AusNet Services' revised proposal adopted our preliminary decision on the standard asset lives.<sup>8</sup>

In the preliminary decision, we accepted AusNet Services' proposed standard asset lives for its existing asset classes. We considered these asset lives are consistent with the approved standard asset lives for the 2011–15 regulatory control period and comparable with the standard asset lives approved in our recent determinations for other electricity distribution service providers.

We received one submission from the CCP on the preliminary decision raising concerns about the variation in standard asset lives applied to similar asset classes across the Victorian service providers. The CCP submitted the variation is greater than that needed to reflect the specific nature of each network.<sup>9</sup> It also noted that there are elements of the assets that are not impacted by any different environments—such as office costs, IT, SCADA and vehicles—and therefore are not exposed to different standard asset lives.

We agree that the same asset types should have the same standard asset life applied barring any environmental factors that may impact on the useful life of the asset. However, each asset class used in the PTRM is not for a single asset type, but covers a group of assets. For example, the 'Distribution system assets' asset class may include assets such as concrete, wooden, and steel poles, surge diverters and zone substation batteries. Likewise, the 'Non-network general assets - IT' asset class may encompass short lived standard IT assets (e.g. office computers and general word processing software), as well as more specialised IT assets (e.g. data servers and storage system). We consider it is reasonable that these assets may have different useful lives. The standard asset life of each asset class should represent the average standard asset life of the capex allocated to that asset class. As the overall make-up of assets entering a certain asset class may differ by business, we consider it reasonable for there to be variation in the average standard asset life applied across businesses. For this reason, we note that this is particularly the case for broader asset classes such as 'Non-network general assets - other' which the CCP submitted has significant variation in standard asset life across Victorian service providers.<sup>10</sup>

We also note that AusNet Services' proposed standard asset lives for its existing asset classes have not changed from those determined in previous regulatory control

<sup>8</sup> AusNet Services, *Revised regulatory proposal*, January 2016, p. 10-5.

<sup>10</sup> The 'Non-network – other' asset class may include any non-network assets that do not fit in the IT category. This may include vehicles (heavy or light), furniture, general office equipment, as well as property assets.

Our final decision approves a lower forecast capex allowance compared to AusNet Services' revised proposal. This means lower regulatory depreciation for the assets forecast to be added to the RAB over the 2016–20 regulatory control period, all things being equal.

 <sup>&</sup>lt;sup>9</sup> CCP3, Response to AER Preliminary Decisions made by the AER in response to proposals from Victorian electricity distribution network service providers for a revenue reset for the 2016–2020 regulatory period, 25 February 2016, pp. 68–70.

periods. We are satisfied that the standard asset lives reflect the nature of the assets over the economic lives of the asset classes.<sup>11</sup>

Table 5.3 sets out our final decision on AusNet Services' standard asset lives for the 2016–20 regulatory control period.

# Table 5.3AER's final decision on AusNet Services' standard asset livesat 1 January 2016 (years)

Asset class	Standard asset life
Subtransmission	45.0
Distribution system assets	50.0
Standard metering	n/aª
Public lighting	n/aª
SCADA/Network control	10.0
Non network general assets - IT	5.0
Non network general assets - other	5.0
Accelerated depreciation opening RAB adjustment - Subtransmission	n/aª
Accelerated depreciation opening RAB adjustment - Distribution	n/aª
Accelerated depreciation - Subtransmission (2016–20)	n/aª
Accelerated depreciation - Distribution (2016–20)	n/aª
Equity raising costs	47.9

Source: AER analysis.

n/a: not applicable.

(a) This asset class is no longer used as no further capex in this category is being added over the 2016–20 regulatory control period.

#### 5.4.2 Remaining asset lives

We accept AusNet Services' revised proposal to use the year-by-year tracking approach to determine depreciation on the opening RAB as at 1 January 2016. We consider that this approach meets the requirements of the NER in that it produces depreciation schedules that align with the economic life of the assets.<sup>12</sup>

<sup>&</sup>lt;sup>11</sup> NER, cl. 6.5.5(b)(1).

<sup>&</sup>lt;sup>12</sup> NER, cl. 6.5.5(b)(1).

Our preliminary decision used our preferred weighted average remaining life (WARL) approach for determining remaining asset lives, consistent with AusNet Services' initial proposal.<sup>13</sup>

AusNet Services' revised proposal used the year-by-year tracking approach to determining remaining asset lives and depreciation associated with existing assets. The year-by-year tracking approach is different to the WARL approach.<sup>14</sup> Under the year-by-year tracking approach:

- assets in existence at 1 January 2011 are depreciated by asset class using straight-line depreciation with the remaining lives determined in the 2010 final decision; and
- capex in each year of the 2011 to 2015 period is grouped by asset classes and separately depreciated over their standard lives as approved in the 2010 final decision.

Each asset class will now have an expanding list of sub-classes to reflect every regulatory year in which capital expenditure on those assets was incurred.<sup>15</sup> This extra data helps track remaining asset values, lives and associated depreciation. The year-by-year tracking approach is more disaggregated, compared with other approaches, and involves multiple depreciation calculations within each asset class, separately tracking capex by the regulatory year it was incurred. For this reason, it does not combine capex incurred during 2011 to 2015 with existing assets in 2011, and so does not require average remaining asset lives to be estimated at 1 January 2016.

The year-by-year tracking approach was proposed by some service providers as part of recent reset processes before the AER. We considered this approach in detail in our 2015 SA Power Networks and Ergon Energy final decisions and preliminary decisions for CitiPower, Powercor and Jemena.<sup>16</sup> In summary, and consistent with our previous assessment, we consider that the year-by-year tracking approach:

 produces depreciation schedules that reflect the nature of the assets and their economic life<sup>17</sup>

<sup>&</sup>lt;sup>13</sup> This approach rolls forward the remaining asset life for an asset class from the beginning of the 2011–15 regulatory control period. See AER, *Preliminary decision, AusNet Services determination 2016 to 2020: Attachment 5 – Regulatory depreciation, October 2015, pp. 9, 12.* 

<sup>&</sup>lt;sup>14</sup> AusNet Services, *Revised regulatory proposal*, January 2016, p. 9-5.

<sup>&</sup>lt;sup>15</sup> AusNet Services prepared a model ('AST Distribution Depreciation model - 'Year by Year' tracking.xlsx') where the separate calculations of depreciation occur. The output from this model is used as an input to the PTRM depreciation calculations.

<sup>&</sup>lt;sup>16</sup> AER, Final decision SA Power Networks distribution determination - Attachment 5 - Regulatory depreciation, October 2015, pp. 10–17; AER, Final decision Ergon Energy distribution determination - Attachment 5 - Regulatory depreciation, October 2015, pp. 10–17; AER, Preliminary decision CitiPower distribution determination -Attachment 5 - Regulatory depreciation, October 2015, pp. 14–22; AER, Preliminary decision Powercor distribution determination - Attachment 5 - Regulatory depreciation, October 2015, pp. 15–22; AER, Preliminary decision Jemena distribution determination - Attachment 5 - Regulatory depreciation, October 2015, pp. 12–19.

<sup>&</sup>lt;sup>17</sup> NER, cl. 6.5.5(b)(1).

ensures that total depreciation (in real terms) equals the initial value of the assets.<sup>18</sup>

Our acceptance of the year-by-year tracking approach in this final decision is a departure from our preliminary decision. We consider the use of WARL also meets the requirements of the NER and avoids the additional complexity inherent in year-by-year tracking, which brings with it additional administration costs and increased risk of error.<sup>19</sup> We maintain our preference for the WARL approach to determining remaining asset lives. However, under the NER, we must use the depreciation schedules proposed by AusNet Services to the extent they satisfy the requirements of the NER.<sup>20</sup>

We have made some changes to AusNet Services' implementation of the year-by-year tracking approach to correct some modelling errors and improve clarity in the depreciation calculations as discussed below.

#### Implementation of year-by-year tracking approach

AusNet Services prepared a separate depreciation model to implement year-by-year tracking.<sup>21</sup> In our review of this model we identified some issues in AusNet Services' proposed model that required correction. We raised these issues with AusNet Services and suggested some amendments to the model to correct the issues identified. AusNet Services generally agreed with the amendments required, but proposed a different approach to correct the issues and improve transparency. Our final decision adopts AusNet Services suggested amendments to the depreciation model and RFM as outlined in its response to the information request.<sup>22</sup>

In its submission to the preliminary decision, the CCP raised concerns about the increased depreciation resulting from the move to a year-by-year tracking approach. The CCP submitted that this is due to the year-by-year tracking approach being 'backdated' to 2011 and reflects the under-recovery of depreciation over the 2011–15 regulatory control period where depreciation was based on a different approach. It recommended that the change to year-by-year tracking should only be implemented for future capex.

We are satisfied that beginning the year-by-year tracking of depreciation from 2011 is a continuation of the approach applied in the PTRM to forecast depreciation at the 2010 determination. Therefore, we do not consider it results in an under-recovery in depreciation over that period which will be recovered from future customers. At the 2010 determination, the depreciation allowance was calculated using remaining asset

<sup>&</sup>lt;sup>18</sup> NER, cl. 6.5.5(b)(2).

<sup>&</sup>lt;sup>19</sup> Our detailed reasoning on why we considered that the WARL approach meets clause 6.5.5(b) of the NER was set out in the preliminary decision for United Energy. AER, *Preliminary decision, United Energy determination 2016 to 2020: Attachment 5 – Regulatory depreciation,* October 2015, pp. 14–15.

<sup>&</sup>lt;sup>20</sup> NER, cl. 6.5.5(a)(2).

<sup>&</sup>lt;sup>21</sup> AusNet Services, *Revised regulatory proposal, AST Distribution Depreciation model - 'Year by Year' tracking.xlsx,* January 2016.

<sup>&</sup>lt;sup>22</sup> AusNet Services, RE: AER information request – AusNet Services - #044 – year-by-year depreciation tracking [email to AER], 10 March 2016.

lives at 1 January 2011 to depreciate the opening RAB, and standard asset lives to depreciate forecast capex over the 2011–15 regulatory control period. This is the standard approach to calculating depreciation. The year-by-year tracking approach uses the remaining and standard asset lives determined at the 2010 determination to calculate depreciation over the 2011–15 regulatory control period, but updates for actual capex—as is done in the RFM—and continues the tracking into the 2016–20 regulatory control period.<sup>23</sup>

The advantage of the year-by-year tracking approach is that it preserves the annual capex information over multiple regulatory control periods rather than combining it together with existing assets at each reset for depreciation purposes. This means that estimating the average remaining life of the combined assets is not required at each reset. This is because the asset lives determined in previous decisions are maintained and applied to the relevant year of capex. The only determination is on the standard asset lives to apply to forecast capex for subsequent regulatory control periods.

We estimate that applying the year-by-year tracking approach to AusNet Services results in total revenue to be about 2.1 per cent higher than if remaining asset lives under the WARL approach were used for the final decision.<sup>24</sup> However, in future regulatory control periods (when existing legacy assets at 1 January 2011 expire) AusNet Services will face lower depreciation, other things being equal.

In the preliminary decision, we determined (and confirmed in this final decision) that forecast depreciation, rather than actual depreciation, will be used to roll forward the RAB over the 2016–20 regulatory control period.<sup>25</sup> The adoption of a forecast depreciation approach in the RAB roll forward will create some distortion in the depreciation of disaggregated asset sub-classes, which can reduce the benefit of year-by-year tracking (particularly for short lived assets). For example, a particular year's forecast capex may prove to be much greater than actual capex. In this case, the asset sub-class' forecast depreciation would have suggested had actual capex been known at the time.<sup>26</sup> The depreciation amount of the asset sub-class in future years will then

<sup>&</sup>lt;sup>23</sup> Our expectation is that once the year-by-year tracking approach is adopted, it will need to be maintained into the future to prevent any further issues associated with switching depreciation approaches.

<sup>&</sup>lt;sup>24</sup> This increase is mainly caused by an increase to straight-line depreciation on the opening RAB of about 10.5 per cent. However, there are also impacts to the inflation on opening RAB, as well as the return on capital and tax building blocks.

<sup>&</sup>lt;sup>25</sup> See attachment 2 for details of our final decision on the use of forecast depreciation in the 2016–20 roll forward.

<sup>&</sup>lt;sup>26</sup> For example, expenditure on IT may have been forecast to be \$120 in 2016. This would mean with an expected life of 6 years, the forecast depreciation for this asset sub-class would be \$20 a year. This sub-class would be expected to have a value at the end of the regulatory control period (2020, after 4 years of depreciation) of \$40 (\$120 - 4x(\$120/6)). However, if actual expenditure on IT in 2016 was only \$90, the sub-class would have a value of only \$10 (\$90 - 4x(\$120/6)) at the end of the regulatory control period if forecast depreciation is used to roll forward the value. If the expenditure on IT in 2016 was only \$60, the sub-class value would be -\$20 (\$60 - 4x(\$120/6)) at the end of the regulatory control period.

be relatively lower to offset this over-depreciation early in the asset's life.<sup>27</sup>

Forecast depreciation, coupled with the greater disaggregation of capital expenditures under year-by-year tracking, will also increase the prospect of negative asset subclasses at the end of the regulatory control period. This would occur where actual capex was much lower than forecast for a particular year—so that actual capex was less than the forecast depreciation allowance. When negative asset classes emerge at the end of the regulatory control period, we consider these amounts should be returned to customers over the next regulatory control period.<sup>28,29</sup> This will be included in our assessment of AusNet Services' proposed depreciation schedules at the next regulatory determination.

#### 5.4.3 Accelerated depreciation

We note that AusNet Services' revised proposal adopted our preliminary decision on the value of certain high bushfire risk assets for accelerated depreciation.<sup>30</sup> Consistent with the preliminary decision, our final decision is to transfer the value of these assets (\$80.4 million as at 1 January 2016) from existing asset classes ('Distribution system assets' and 'Subtransmission') to new asset classes with assigned asset lives of one year and five years.<sup>31</sup>

<sup>&</sup>lt;sup>27</sup> In terms of the example above, where expenditure on IT in 2016 was only \$90, the end of period value is \$10 instead of \$40. Over the 2021–25 regulatory control period this value would be depreciated at \$5 per annum (\$10/(6-4)). This asset sub-class over its 6 years of life will therefore be depreciated as follows: \$20, \$20, \$20, \$5, \$5. In this case the number of years over which the asset is fully depreciated is unaffected and equal to the standard asset life of 6 years, except for the case where a negative sub-class develops, as discussed below.

<sup>&</sup>lt;sup>28</sup> In terms of the example above, where expenditure on IT in 2016 was only \$60, the asset is fully depreciated (over-depreciated) within 4 years, not 6 years. The depreciation profile for this asset sub-class would be as follows: \$20, \$20, \$20, \$20, \$20, \$20.

<sup>&</sup>lt;sup>29</sup> Offsetting any negative closing asset sub-class value against another sub-class with a positive value within the same asset class would undermine the core reason year-by-year tracking is proposed. That is, to more accurately reflect the remaining asset lives of disaggregated asset sub-classes.

<sup>&</sup>lt;sup>30</sup> AusNet Services, *Revised regulatory proposal*, January 2016, p. 9-3 to 9–4.

<sup>&</sup>lt;sup>31</sup> AER, Preliminary decision – AusNet Services determination 2016 to 2020, Attachment 5 – Regulatory depreciation, October 2015, pp. 13–17.