



DRAFT DECISION
Essential Energy
Distribution determination

2019–24

Attachment 1 – Annual revenue
requirement

November 2018

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Note

This attachment forms part of the AER's draft decision on the distribution determination that will apply to Essential Energy for the 2019–24 regulatory control period. It should be read with all other parts of the draft decision.

The draft decision includes the following attachments:

Overview

Attachment 1 – Annual revenue requirement

Attachment 2 – Regulatory asset base

Attachment 3 – Rate of return

Attachment 4 – Regulatory depreciation

Attachment 5 – Capital expenditure

Attachment 6 – Operating expenditure

Attachment 7 – Corporate income tax

Attachment 8 – Efficiency benefit sharing scheme

Attachment 9 – Capital expenditure sharing scheme

Attachment 10 – Service target performance incentive scheme

Attachment 11 – Demand management incentive scheme

Attachment 12 – Classification of services

Attachment 13 – Control mechanism

Attachment 14 – Pass through events

Attachment 15 – Alternative control services

Attachment 16 – Negotiated services framework and criteria

Attachment 17 – Connection policy

Attachment 18 - Tariff structure statement

Contents

Note	1-2
Contents	1-3
Shortened forms	1-4
1 Annual revenue requirement	1-5
1.1 Draft decision	1-5
1.2 Essential Energy’s proposal	1-7
1.3 AER’s assessment approach	1-8
1.3.1 The building block costs	1-9
1.4 Reasons for draft decision	1-10
1.4.1 Revenue smoothing	1-11
1.4.2 Shared assets	1-12
1.4.3 Indicative average distribution price impact	1-13
1.4.4 Expected impact of decision on electricity bills	1-15

Shortened forms

Shortened form	Extended form
AER	Australian Energy Regulator
ARR	annual revenue requirement
capex	capital expenditure
CESS	capital expenditure sharing scheme
CPI	consumer price index
distributor	distribution network service provider
DMIAM	demand management innovation allowance mechanism
kWh	kilowatt-hour
MWh	megawatt-hour
NER	National Electricity Rules
NSW	New South Wales
opex	operating expenditure
PTRM	post-tax revenue model
RAB	regulatory asset base
RIN	regulatory information notice

1 Annual revenue requirement

The annual revenue requirement (ARR) is the sum of the various building block costs for each year of the regulatory control period before smoothing. The ARR is smoothed across the period to reduce fluctuations between years and to determine expected revenues for each year. The expected revenues are the amounts that Essential Energy (Essential) will target for annual pricing purposes and recover from customers for the provision of standard control services for each year of the regulatory control period. This attachment sets out our draft decision on Essential's ARR and expected revenues for the 2019–24 regulatory control period.

1.1 Draft decision

We determine a total ARR of \$5294.9 million (\$ nominal) for Essential for the 2019–24 regulatory control period. Our determination represents a reduction of \$239.8 million (\$ nominal) or 4.3 per cent to Essential's proposal and reflects the impact of our draft decisions on the various building block costs. For the reasons discussed in the attachments to this draft determination, our decisions on Essential's proposed building block costs have a consequential impact on its ARR.

Our draft decision includes an estimated \$22.5 million (\$ 2018–19) being returned to customers over the 2019–24 regulatory control period, as confirmed in our final remade decision for the 2014–19 period which accepted Essential's remittal proposal.¹ This amount is:

- Based on the difference between the revenues Essential recovered during the 2014–19 period (where it set network charges in accordance with enforceable undertakings during 2016–17 to 2018–19) and the revenues we approved in our remade decision.²
- Treated as a negative revenue adjustment in establishing the 2019–20 ARR and we smooth this out as part of setting the expected revenues over the 2019–24 regulatory control period.

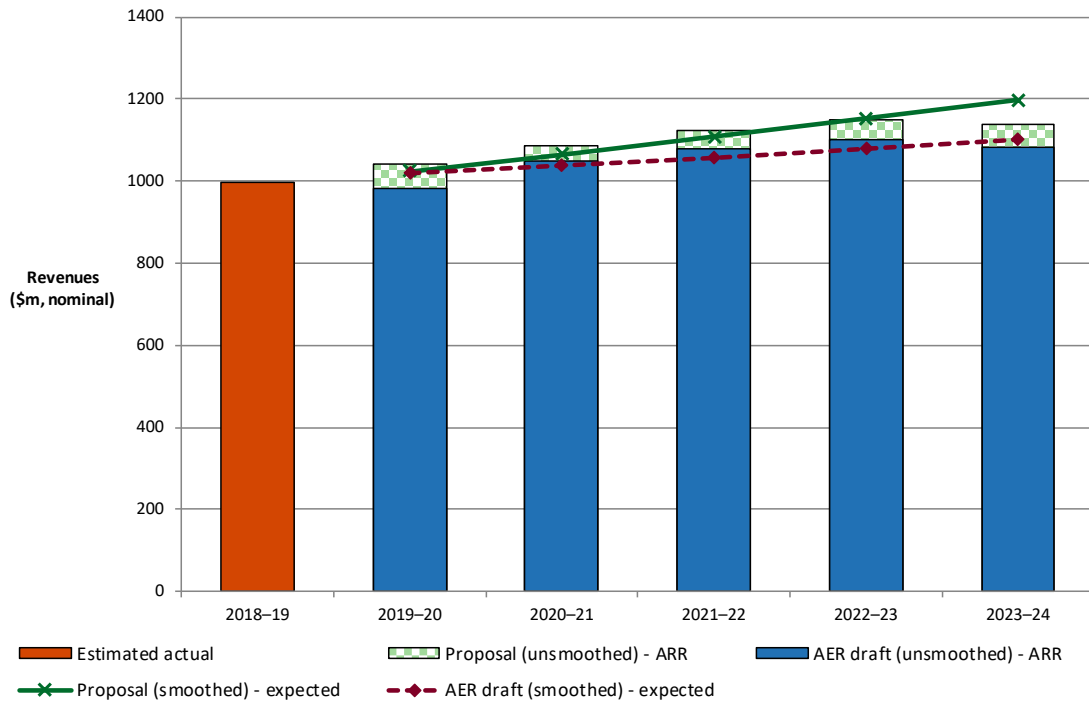
We determine the annual expected revenue (smoothed) and X factor for each regulatory year of the 2019–24 regulatory control period by smoothing the ARR. Our draft decision is to approve total expected revenues (smoothed) of \$5292.1 million (\$ nominal) for Essential for the 2019–24 regulatory control period.

Figure 1.1 shows the difference between Essential's proposal and our draft decision.

¹ AER, *Final decision, Essential Energy 2014–19 electricity distribution determination*, September 2018, p. 4.

² The undertakings from Essential addressed pricing uncertainties arising from limited merits and judicial review processes. They also mostly tracked the original AER decision for 2014–19 and so the difference in revenue is less pronounced.

Figure 1.1 AER's draft decision on Essential's revenue for the 2019–24 regulatory control period (\$million, nominal)



Source: AER analysis; Essential Energy, *9.1 Standard control service PTRM*, April 2018.

Table 1.1 shows our draft decision on the building block costs, the ARR, annual expected revenue and X factor for the 2019–24 regulatory control period.

Table 1.1 AER's draft decision on Essential's revenues for the 2019–24 regulatory control period (\$million, nominal)

	2019–20	2020–21	2021–22	2022–23	2023–24	Total
Return on capital	489.3	504.0	511.3	516.9	520.1	2541.6
Regulatory depreciation ^a	93.5	124.6	148.6	175.4	173.9	716.1
Operating expenditure ^b	384.6	380.3	376.4	360.0	341.7	1842.9
Revenue adjustments ^c	-8.1	15.5	15.9	16.3	16.6	56.2
Net tax allowance	24.0	25.0	26.4	31.7	30.9	138.1
Annual revenue requirement (unsmoothed)	983.3	1049.4	1078.6	1100.2	1083.3	5294.9
Annual expected revenue (smoothed)	1017.4	1037.5	1058.0	1079.0	1100.3	5292.1
X factor ^d	n/a ^e	0.44%	0.44%	0.44%	0.44%	n/a

Source: AER analysis.

- (a) Regulatory depreciation is straight-line depreciation net of the inflation indexation on the opening RAB.
- (b) Includes debt raising costs
- (c) Include revenue adjustments from the capital expenditure sharing scheme (CESS), demand management innovation allowance mechanism (DMIAM) and an amount resulting from the remittal decision for the 2014–19 regulatory control period.
- (d) The X factors will be revised to reflect the annual return on debt update. Under the CPI-X framework, the X factor measures the real rate of change in annual expected revenue from one year to the next. A negative X factor represents a real increase in revenue. Conversely, a positive X factor represents a real decrease in revenue.
- (e) Essential is not required to apply an X factor for 2019–20 because we set the 2019–20 expected revenue in this decision. The expected revenue for 2019–20 is around 0.44 per cent lower than the expected revenue for 2018–19 in real terms or 2.0 per cent higher in nominal terms.

1.2 Essential Energy's proposal

Essential proposed a total revenue requirement of \$5534.7 million (\$ nominal) for the 2019–24 regulatory control period. This included a (negative) revenue adjustment expected to occur from a remittal process for the 2014–19 regulatory control period.³ Table 1.2 shows Essential's proposed building block costs, the ARR, expected revenue and X factor for each year of the 2019–24 regulatory control period.

³ We have since confirmed Essential's remittal proposal in our final remade decision for the 2014–19 regulatory control period; see AER, *Final decision, Essential Energy 2014–19 electricity distribution determination*, May 2018.

Table 1.2 Essential's proposed revenues for the 2019–24 regulatory control period (\$million, nominal)

	2019–20	2020–21	2021–22	2022–23	2023–24	Total
Return on capital	521.0	540.2	551.1	560.4	567.9	2740.6
Regulatory depreciation ^a	87.6	118.6	142.5	169.3	167.9	685.8
Operating expenditure ^b	384.8	380.8	377.2	361.0	343.0	1846.9
Revenue adjustments ^c	8.2	7.3	8.6	8.7	8.9	41.7
Net tax allowance	38.0	40.2	42.7	49.6	49.1	219.7
Annual revenue requirement (unsmoothed)	1039.6	1087.0	1122.0	1149.2	1136.8	5534.7
Annual expected revenue (smoothed)	1024.4	1065.0	1107.3	1151.1	1196.8	5544.7
X factor	n/a ^d	-1.43%	-1.43%	-1.43%	-1.43%	n/a

Source: Essential Energy, *9.1 Standard Control Service PTRM*, April 2018.

- (a) Regulatory depreciation is straight-line depreciation net of the inflation indexation on the opening RAB.
- (b) Includes debt raising costs.
- (c) Includes revenue adjustments for CESS, DMIAM and an amount resulting from the remittal decision for the 2014–19 regulatory control period.
- (d) Essential is not required to apply an X factor for 2019–20 because we set the 2019–20 expected revenue in this decision.

1.3 AER's assessment approach

In this section, we describe the approach used to determine the ARR and expected revenue for Essential for each year of the 2019–24 regulatory control period.⁴

In this determination we first calculate the ARR for each year of the 2019–24 regulatory control period. To do this we consider the various costs facing the distributor and the trade-offs and interactions between these costs, service quality and across years. This reflects the AER's holistic assessment of the distributor's proposal.

The ARR for each year is the sum of the building block costs. These building block costs are set out in section 1.3.1. The AER's post-tax revenue model (PTRM) brings together these building block costs and calculates the resulting ARRs.

We understand the trade-offs that occur between building block costs and test the sensitivity of these costs to their various driver elements. These trade-offs are discussed in the interrelationships section of the various attachments to this draft decision and are reflected in the calculations made in the PTRM.⁵ Such understanding

⁴ NER, cl. 6.3.2(a)(1) and 6.5.9(b)(2).

⁵ There are trade-offs that are not modelled in the PTRM but are reflected in the inputs to the PTRM. For example, service quality is not explicitly modelled in the PTRM, but the trade-offs between service quality and price are reflected in the forecast capex and opex inputs to the model. Other trade-offs are obvious from the calculations in

allows us to exercise judgement in determining the final inputs into the PTRM and the ARR that result from this modelling.

Having calculated the total revenue requirement for the 2019–24 regulatory control period, we smooth the ARRs for each regulatory year across that period. This step reduces revenue variations between years, and calculates the expected revenue and X factor for each year.⁶ The X factors equalise (in net present value terms) the total expected revenues to be earned by the distributor with the total revenue requirement for the 2019–24 regulatory control period.⁷ They must usually minimise, as far as reasonably possible, the variance between the expected revenue and ARR for the last regulatory year of the period.⁸ By minimising this divergence, it helps to manage the prospect of a significant revenue change (and consequently prices) between the last year of the 2019–24 regulatory control period, and first year of the following 2024–29 regulatory control period. We therefore consider a divergence of up to 3 per cent between the expected revenue and ARR for the last year of the regulatory control period is reasonable, if this can promote smoother price changes over the regulatory control period.

The building block costs (and the elements that drive those costs) used to determine the unsmoothed ARR are set out in section 1.3.1.

1.3.1 The building block costs

The efficient costs to be recovered by a distributor can be thought of as being made up of various building block costs. Our draft decision assesses each of the building block costs and the elements that drive these costs. The building block costs are approved reflecting trade-offs and interactions between the cost elements, service quality and across years.

Table 1.3 shows the building block costs that form the ARR for each year and where discussion on the elements that drive these costs can be found within this draft decision.

the PTRM. For example, while someone may expect a lower regulatory asset base to also lower revenues, the PTRM shows that this will not occur if the reduction in the regulatory asset base is due solely to an increase in the depreciation rate. In such circumstances, revenues increase as the increased depreciation allowance more than offsets the reduction in the return on capital caused by the lower regulatory asset base.

⁶ NER, cl. 6.5.9(a).

⁷ NER, cl. 6.5.9(b)(3)(i). The X factors represent the real revenue path over the 2019–24 regulatory control period under the CPI–X framework.

⁸ NER, cl. 6.5.9(b)(2).

Table 1.3 Building block costs

Building block costs	Attachments where elements are discussed
Return on capital	Regulatory asset base (attachment 2)
	Rate of return (attachment 3)
	Capital expenditure (attachment 5)
Regulatory depreciation (return of capital)	Regulatory asset base (attachment 2)
	Regulatory depreciation (attachment 4)
	Capital expenditure (attachment 5)
Operating expenditure	Operating expenditure (attachment 6)
Estimated cost of corporate tax	Corporate income tax (attachment 7)
Other revenue adjustments	
Adjustment for shared assets	Annual revenue requirement (attachment 1)
Operating efficiency benefits/penalties	Efficiency benefit sharing scheme (attachment 8)
Capital efficiency benefits/penalties	Capital expenditure sharing scheme (attachment 9)
Demand management innovation allowance	Demand management incentive scheme (attachment 11)

1.4 Reasons for draft decision

We determine a total ARR of \$5294.9 million (\$ nominal) for Essential over the 2019–24 regulatory control period. This is a reduction of \$239.8 million (\$ nominal) or 4.3 per cent to Essential's proposed total ARR of \$5534.7 million (\$ nominal) for this period. This reflects the impact of our draft decision on the various building block costs.

Figure 1.2 shows the building block components from our determination that make up the ARR for Essential, and the corresponding components from its proposal.

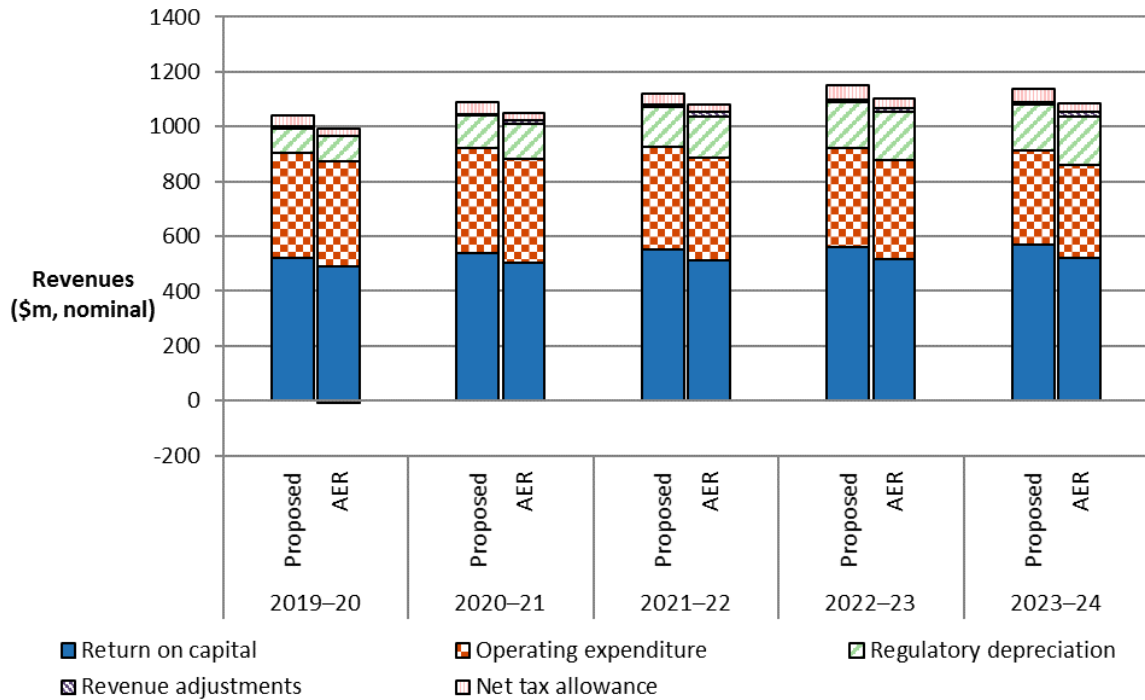
The changes we made to Essential's proposed building blocks include (in nominal terms):

- a reduction in the return on capital allowance of \$199.0 million or 7.3 per cent (attachments 2, 3 and 5)
- an increase in the regulatory depreciation of \$30.3 million or 4.4 per cent (attachments 2, 4 and 5)
- a reduction in the cost of corporate income tax allowance of \$81.6 million or 37.1 per cent (attachment 7 and section 2.2 of the overview)
- an increase in the revenue adjustments of \$14.5 million or 34.8 per cent arising from changes to CESS (attachment 9) and DMIAM (attachment 11), and updates

made to the (negative) adjustment for the remittal decision in respect of the 2014–19 regulatory control period.⁹

Although we accept Essential's proposed opex in real terms, in nominal terms the opex building block has reduced \$4.0 million or 0.2 per cent (attachment 6). This is due to our draft decision on expected inflation (attachment 3) for the 2019–24 regulatory control period.

Figure 1.2 AER's draft decision and Essential's proposed annual revenue requirement (\$million, nominal)



Source: Essential Energy, 9.1 Standard Control Service PTRM, April 2018. AER analysis.

Note: Revenue adjustments include CESS, DMIAM and an amount resulting from the remittal decision for the 2014–19 regulatory control period. Opex includes debt raising costs.

1.4.1 Revenue smoothing

We have taken into account the building block costs determined in this decision when smoothing the expected revenues for Essential over the 2019–24 regulatory control period. In doing so, we first set the expected revenue for the first regulatory year (2019–20) at \$1017.4 million (\$ nominal). This is higher than the 2019–20 ARR (unsmoothed) of \$983.3 million we determined. It is also \$19.7 million higher than the

⁹ Our draft decision 2019–24 PTRM for Essential contains a revenue adjustment of –\$22.5 million (\$2018–19) in 2019–20 to account for the outcome of the remittal decision for the 2014–19 regulatory control period.

expected revenue for 2018–19. We then applied a profile of X factors to determine the expected revenue in subsequent years.

To smooth the revenue movements from the second regulatory year (2020–21) onwards, we have applied a constant X factor over the entire length of the period. This allows for a relatively predictable price movement over the regulatory control period, and provides a stable trend moving forward. This approach smooths the revenues by allowing for a more gradual path for revenues over the 2019–24 regulatory control period that increase at a rate below expected inflation.

Based on the X factors we have determined for Essential, the difference between the expected revenue and ARR for 2023–24 is 1.6 per cent. This divergence lies within our target band of 3 per cent. Therefore, we consider that our profile of X factors results in an expected revenue in the last year of the regulatory control period that is as close as reasonably possible to the ARR for that year.¹⁰ We will review this smoothing for the final decision.

1.4.2 Shared assets

Distributors, such as Essential, may use assets to provide both the standard control services we regulate and unregulated services. These assets are called 'shared assets'.¹¹ If the revenue from shared assets is material, ten per cent of the unregulated revenues that a distributor earns from shared assets will be used to reduce the distributor's revenue for standard control services.¹²

The shared asset principles establish that use of the shared assets should be material before cost reductions are applied.¹³ The NER does not define materiality in this context. Our approach to what constitutes a material use of shared assets is that unregulated use of shared assets in a specific regulatory year is material when a distributor's annual average unregulated revenue from shared assets is expected to be greater than one per cent of its expected revenue for that regulatory year.¹⁴

Essential submitted that its total revenue requirement is not subject to a shared asset adjustment because its forecast annual unregulated revenue from shared assets does not exceed the AER's materiality threshold.¹⁵

We consider Essential's forecast unregulated revenues from shared assets for the 2019–24 regulatory control period are reasonable, noting that its forecast revenues arising from the fibre optic income asset class are expected to be higher than historical amounts. However, Essential's forecast unregulated revenues must be compared to the regulated revenues we determine, rather than those proposed by Essential. Our

¹⁰ NER, cl. 6.5.9(b)(2).

¹¹ NER, cl. 6.4.4.

¹² AER, *Shared asset guideline*, November 2013.

¹³ NER, cl. 6.4.4(c)(3).

¹⁴ AER, *Shared asset guideline*, November 2013, p. 8.

¹⁵ Essential Energy, *2019–24 Regulatory proposal*, April 2018, p.110.

draft decision sets lower expected revenues than Essential's proposal, so we estimate that the unregulated revenues will be about 0.5 per cent of its expected revenues in each year of the 2019–24 regulatory control period. Hence, the materiality threshold is not met in any year of the 2019–24 regulatory control period and we do not apply a shared asset revenue adjustment.

We note unregulated revenues from shared assets may in future become material.¹⁶ We will monitor Essential's shared asset unregulated revenues for future regulatory control periods.

1.4.3 Indicative average distribution price impact

Our draft decision on Essential's expected revenues ultimately affects the prices consumers pay for electricity. There are several steps required in translating our revenues decisions into indicative distribution price impact.

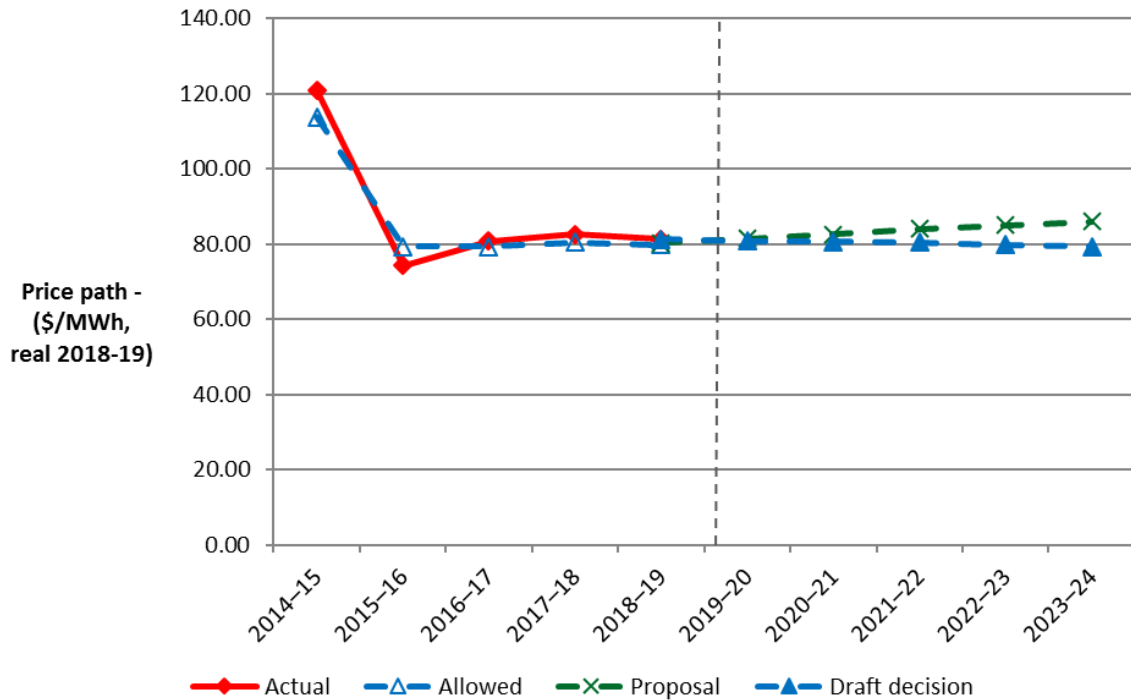
We regulate Essential's standard control services under a revenue cap form of control. This means our draft decision on Essential's expected revenues does not directly translate to price impacts. This is because Essential's revenue is fixed under the revenue cap form of control, so changes in the consumption of electricity will affect the prices ultimately charged to consumers. We are not required to establish the distribution prices for Essential as part of this determination. However, we will assess Essential's annual pricing proposals before the commencement of each regulatory year within the 2019–24 regulatory control period. In each assessment we will administer the pricing requirements set in this distribution determination.

For this draft decision, we have estimated some indicative average distribution price impacts flowing from our determination on the expected revenues for Essential over the 2019–24 regulatory control period. In this section, our estimates only relate to standard control services (that is, the core electricity distribution charges), not alternative control services (such as metering charges). These indicative price impacts assume that actual energy consumption across the 2019–24 regulatory control period matches Essential's forecast energy consumption, which we have adopted for this draft decision.

Figure 1.3 shows Essential's indicative average price path over the period 2014–15 to 2023–24 in real 2018–19 dollar term based on the expected revenues established in our draft decision compared to Essential's proposed revenue requirement.

¹⁶ We will reassess the materiality of the forecast shared asset unregulated revenues for our final decision.

Figure 1.3 Indicative distribution price path for Essential (\$/MWh, 2018–19)



Source: AER analysis.

We estimate that our draft decision on Essential's annual expected revenue will result in a decrease to average distribution charges by about 0.5 per cent per annum over the 2019–24 regulatory control period in real 2018–19 dollar terms.¹⁷ This compares to the real average increase of approximately 1.4 per cent per annum proposed by Essential over the 2019–24 regulatory control period. These high-level estimates reflect the aggregate change across the entire network and do not reflect the particular tariff components for specific end users.

Table 1.4 displays in nominal terms the comparison of the revenue and price impacts of Essential's proposal and our draft decision.

¹⁷ In nominal terms we estimate average distribution charges to increase by 1.9 per cent per annum, compared to an increase of 3.9 per cent per annum proposed by Essential. This amount reflects an expected inflation rate of 2.42 per cent per annum as determined in this draft decision.

Table 1.4 Comparison of revenue and price impacts of Essential's proposal and the AER's draft decision

	2018–19	2019–20	2020–21	2021–22	2022–23	2023–24
AER draft decision						
Revenue (\$m, nominal)	997.6	1017.4	1037.5	1058.0	1079.0	1100.3
Price path (\$, nominal/MWh) ^a	81.19	82.79	84.54	86.38	87.87	89.40
Revenue (change %)		2.0%	2.0%	2.0%	2.0%	2.0%
Price path (change %)		2.0%	2.1%	2.2%	1.7%	1.8%
Essential proposal						
Revenue (\$m, nominal)	985.4	1024.4	1065.0	1107.3	1151.1	1196.8
Price path (\$, nominal/MWh) ^a	80.20	83.36	86.79	90.40	93.74	97.24
Revenue (change %)		4.0%	4.0%	4.0%	4.0%	4.0%
Price path (change %)		3.9%	4.1%	4.2%	3.7%	3.7%

Source: AER analysis.

(a) The price path is in nominal terms and is constructed by dividing nominal expected revenue for standard control services by forecast energy consumption for each year of the regulatory control period.

1.4.4 Expected impact of decision on electricity bills

The annual electricity bill for customers in Essential's network reflects the combined cost of all the electricity supply chain components—wholesale energy generation, transmission, distribution, metering, and retail costs. This draft decision primarily relates to the distribution charges for standard control services, which represent approximately 36.6 per cent on average for residential and small business customers' annual electricity bill in Essential's network area.¹⁸

We estimate the expected bill impact by varying the distribution charges in accordance with our draft decision, while holding all other components—including the metering component—constant. This approach isolates the effect of our draft decision on the core distribution charges only. However, this does not imply that other components will remain unchanged across the regulatory control period.¹⁹

Based on this approach in our draft decision, we expect that the distribution component of the average annual residential electricity bill in 2023–24 to increase by about \$70 or 3.7 per cent (\$ nominal) from the 2018–19 total bill level. By comparison, had we

¹⁸ Essential Energy, *R1a Final RIN – 1 – Reset master*, April 2018.

¹⁹ It also assumes that actual energy consumption will equal the forecast adopted in our draft decision. Since Essential operates under a revenue cap, changes in energy consumption will also affect annual electricity bills across the 2019–24 regulatory control period.

accepted Essential's proposal, the expected distribution component of the average annual residential electricity bill in 2023–24 would increase by about \$148 or 7.8 per cent (\$ nominal) from the 2018–19 total bill level.

Similarly, for an average small business customer in Essential's network, we expect the distribution component of the average annual small business electricity bill in 2023–24 to increase by about \$314 or 3.7 per cent (\$ nominal) from the 2018–19 total bill level. By comparison, had we accepted Essential's proposal, the expected distribution component of the average small business customer electricity bill in 2023–24 would increase by about \$660 or 7.8 per cent (\$ nominal) from the 2018–19 total bill level.

Our estimated impact is based on an average annual electricity usage of around 5000 kWh per annum for residential households and 23000 kWh for small businesses.²⁰ Therefore, customers with different usage will experience different changes in their bills. We also note that there are other factors, such as metering, wholesale and retail costs, which affect electricity bills.

Table 1.5 shows our estimated impact of our draft decision and Essential's proposal on the average annual electricity bills for residential and small business customers in its network over the 2019–24 regulatory control period.

²⁰ Essential Energy, *R1a final RIN – 1 – Reset master*, April 2018.

Table 1.5 Estimated impact of Essential's revenue proposal and AER's draft decision on annual electricity bills for the 2019–24 regulatory control period (\$ nominal)

	2018–19	2019–20	2020–21	2021–22	2022–23	2023–24
AER draft decision						
Residential annual bill	1900 ^a	1914	1929	1944	1957	1970
Annual change ^c		14 (0.7%)	15 (0.8%)	16 (0.8%)	13 (0.7%)	13 (0.7%)
Small business annual bill	8490 ^b	8551	8618	8688	8745	8804
Annual change ^c		61 (0.7%)	67 (0.8%)	70 (0.8%)	57 (0.7%)	59 (0.7%)
Essential's proposal						
Residential annual bill	1900 ^a	1927	1957	1988	2017	2048
Annual change ^c		27 (1.4%)	30 (1.5%)	31 (1.6%)	29 (1.5%)	30 (1.5%)
Small business annual bill	8490 ^b	8613	8745	8885	9015	9150
Annual change ^c		123 (1.4%)	133 (1.5%)	140 (1.6%)	130 (1.5%)	136 (1.5%)

Source: AER analysis; AER, [Energy Made Easy](#) website (standing offer); Essential Energy, *R1a final RIN – 1 – Reset master*, April 2018.

- (a) Annual bill for 2018–19 is sourced from [Energy Made Easy](#) and reflects the average consumption of 5000 kWh for residential customers in NSW (postcode 2650).
- (b) Annual bill for 2018–19 is sourced from [Energy Made Easy](#) and reflects the average consumption of 23000 kWh for small business customers in NSW (postcode 2650).
- (c) Annual change amounts and percentages are indicative. They are derived by varying the distribution component of the 2018–19 bill amounts in proportion to yearly expected revenue divided by forecast energy as provided by Essential. Actual bill impacts will vary depending on electricity consumption and tariff class.