

FINAL DECISION

SA Power Networks determination 2015−16 to 2019−20

Attachment 2 − Regulatory asset base

October 2015

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1. Note
2. This attachment forms part of the AER's final decision on SA Power Networks' 2015–20 distribution determination. It should be read with all other parts of the final decision.
3. The final decision includes the following documents:
4. Overview
5. Attachment 1 – Annual revenue requirement
6. Attachment 2 – Regulatory asset base
7. Attachment 3 – Rate of return
8. Attachment 4 – Value of imputation credits
9. Attachment 5 – Regulatory depreciation
10. Attachment 6 – Capital expenditure
11. Attachment 7 – Operating expenditure
12. Attachment 8 – Corporate income tax
13. Attachment 9 – Efficiency benefit sharing scheme
14. Attachment 10 – Capital expenditure sharing scheme
15. Attachment 11 – Service target performance incentive scheme
16. Attachment 12 – Demand management incentive scheme
17. Attachment 13 – Classification of services
18. Attachment 14 – Control mechanism
19. Attachment 15 – Pass through events
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22. Attachment 18 – Connection policy
23. Contents

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1. Shortened forms

| Shortened form | Extended form |
| --- | --- |
| ABS | Australian Bureau of Statistics |
| ACS | alternative control services |
| AEMC | Australian Energy Market Commission |
| AEMO | Australian Energy Market Operator |
| AER | Australian Energy Regulator |
| 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 |
| 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 |
| SCS | standard control services |
| SLCAPM | Sharpe-Lintner capital asset pricing model |
| STPIS | service target performance incentive scheme |
| WACC | weighted average cost of capital |

# Regulatory asset base

We are required to make a decision on SA Power Networks' opening regulatory asset base (RAB) as at 1 July 2015.[[1]](#footnote-1) We use the RAB at the start of each regulatory year to determine the return of capital (regulatory depreciation) and return on capital building block allowances. This attachment presents our final decision on the opening RAB value as at 1 July 2015 for SA Power Networks and roll forward of the forecast RAB values over the 2015–20 regulatory control period.

## Final decision

We accept SA Power Networks' revised proposed opening RAB value of $3778.4 million ($ nominal) as at 1 July 2015 for. We had accepted in the preliminary decision the opening RAB in SA Power Networks' initial proposal, noting some updates would be required for the final decision. SA Power Networks made the following changes in its revised proposal:[[2]](#footnote-2)

1. updated 2014–15 capex with more recent estimates
2. updated the RAB roll forward with the actual inflation input for 2014–15.

SA Power Networks adopted the approach in our preliminary decision on the use of forecast depreciation for establishing the RAB at the commencement of the regulatory control period from 1 July 2020.[[3]](#footnote-3)

Table 2.1 sets out our final decision on the roll forward of the RAB values for the   
2010–15 regulatory control period.

We determine a forecast closing RAB value at 30 June 2020 of $4882.4 million ($ nominal). This is $107.8 million (or 2.2 per cent) lower than the amount of $4990.2 million ($ nominal) in SA Power Networks' revised proposal. Our final decision on the forecast closing RAB reflects our adjustments to SA Power Networks' forecast capex (attachment 6), forecast regulatory depreciation (attachment 5) and the forecast inflation rate (attachment 3).

Table 2.2 sets out our final decision on the forecast RAB values for SA Power Networks over the 2015–20 regulatory control period.

Table 2.1 AER's final decision on SA Power Networks' RAB for the 2010–15 regulatory control period ($ million, nominal)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 2010–11 | 2011–12 | 2012–13 | 2013–14 | 2014–15a |
| Opening RAB | 2900.0 | 3096.8 | 3287.9 | 3502.0 | 3674.4 |
| Capital expenditureb | 271.0 | 325.7 | 335.2 | 291.3 | 335.4 |
| Inflation indexation on opening RAB | 96.6 | 48.9 | 82.2 | 102.6 | 48.9 |
| Less: straight-line depreciation | 170.7 | 183.6 | 203.3 | 221.5 | 242.0 |
| Closing RAB | 3096.8 | 3287.9 | 3502.0 | 3674.4 | 3816.7 |
| Difference between estimated and actual 2009–10 capex (1 July 2009 to 30 June 2010) |  |  |  |  | –24.3 |
| Return on difference for 2009–10 capex |  |  |  |  | –14.0 |
| **Closing RAB as at 30 June 2015** |  |  |  |  | **3778.4** |

Source: AER analysis.

(a): Based on revised estimated capex. We will update for actual capex at the next reset.

(b): Net of disposals and adjusted for CPI.

Table 2.2 AER's final decision on SA Power Networks' RAB for the 2015–20 regulatory control period ($ million, nominal)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | 2015–16 | 2016–17 | 2017–18 | 2018–19 | 2019–20 |
| Opening RAB | 3778.4 | 4064.1 | 4279.3 | 4482.8 | 4680.9 |
| Capital expenditurea | 402.6 | 404.1 | 397.5 | 400.6 | 416.5 |
| Inflation indexation on opening RAB | 94.5 | 101.6 | 107.0 | 112.1 | 117.0 |
| Less: straight-line depreciation | 211.3 | 290.4 | 301.0 | 314.6 | 332.0 |
| Closing RAB | 4064.1 | 4279.3 | 4482.8 | 4680.9 | 4882.4 |

Source: AER analysis.

(a): Net of forecast disposals and capital contributions.

## SA Power Networks' revised proposal

SA Power Networks' revised proposal submitted an opening RAB value at 1 July 2015 of $3778.4 million ($ nominal). SA Power Networks revised proposed opening RAB is based on that accepted in our preliminary decision, with updates for 2014–15 capex and inflation.[[4]](#footnote-4)

SA Power Networks' revised proposal submitted a forecast closing RAB at 30 June 2020 of $4990.2 million ($ nominal). This value reflects its revised forecast capex and forecast depreciation (based on forecast capex) over the 2015–20 regulatory control period. SA Power Networks' projected RAB over the 2015–20 regulatory control period is shown in Table 2.3.

Table 2.3 SA Power Networks' revised proposed RAB for the 2015–20 regulatory control period ($million, nominal)

|  | 2015–16 | 2016–17 | 2017–18 | 2018–19 | 2019–20 |
| --- | --- | --- | --- | --- | --- |
| Opening RAB | 3778.4 | 4057.5 | 4347.2 | 4598.2 | 4819.8 |
| Capital expenditurea | 436.5 | 471.4 | 459.1 | 455.2 | 429.1 |
| Inflation indexation on opening RAB | 77.8 | 83.6 | 89.6 | 94.7 | 99.3 |
| Less: straight-line depreciation | 235.2 | 265.3 | 297.6 | 328.3 | 358.0 |
| Closing RAB | 4057.5 | 4347.2 | 4598.2 | 4819.8 | 4990.2 |

Source: SA Power Networks, Revised proposed PTRM, July 2015.

(a) Net of disposals and capital contributions.

## AER’s assessment approach

We have not changed our assessment approach for the RAB from our preliminary decision. Section 2.3 of our preliminary decision details that approach.[[5]](#footnote-5)

The CCP has raised concerns with having both the weighted average cost of capital (WACC) and RAB measured in nominal terms.[[6]](#footnote-6) It appears to question whether inflation is accounted for twice in the building block framework. This matter was addressed in our preliminary decision for SA Power Networks.[[7]](#footnote-7) Maintaining the RAB in real terms by adding inflation is required by the NER[[8]](#footnote-8) and generally helps to promote smoother prices over the life of an asset. The regulatory depreciation building block is adjusted for the inflation indexed component of the RAB so that there is no double counting of inflation. If the RAB was unindexed for inflation, the offsetting indexation adjustment applied to depreciation would also have to be removed. On balance, this means more depreciation would be returned to the business resulting in higher prices early in an asset life and lower prices later in its life.[[9]](#footnote-9) Even if allowed under the NER, moving to an unindexed RAB would lead to a price increase over the short to medium term and when new lumpy assets are added to the RAB.[[10]](#footnote-10)

## Reasons for final decision

We accept SA Power Networks' revised proposed opening RAB value of $3778.4 million ($ nominal) at 1 July 2015. Based on the approved opening RAB we forecast a closing RAB value of $4882.4 million ($ nominal) by 30 June 2020. This represents a reduction of $107.8 million, or 2.2 per cent compared to the revised proposal. The reasons for our decision are discussed below.

### Opening RAB as at 1 July 2015

We accept SA Power Networks' revised proposed opening RAB value of $3778.4 million ($nominal) as at 1 July 2015.

In the preliminary decision, we accepted SA Power Networks' proposed opening RAB after being satisfied that it had correctly made all relevant inputs to the roll forward model (RFM). We noted the roll forward of SA Power Networks' RAB included an estimated capex value for 2014–15. We stated we would update the 2014–15 estimated capex value for the final decision.

SA Power Networks' revised proposed opening RAB is based on that accepted in our preliminary decision, with updates for 2014–15 capex and inflation.

We accept SA Power Networks' update to the net capex estimate for 2014–15 of $282.6 million.[[11]](#footnote-11) This amount is lower than in the initial proposal and reflects more up-to-date data, and therefore is the best forecast available. We note that the financial impact of any difference between actual and estimated capex for 2014–15 will be accounted for at the next reset.[[12]](#footnote-12) We are satisfied that SA Power Networks' update for the 2014–15 inflation input in the RFM reflects the actual March 2015 consumer price index (CPI) published by the Australian Bureau of Statistics.[[13]](#footnote-13)

### Forecast closing RAB as at 30 June 2020

We forecast a closing RAB value of $4882.4 million by 30 June 2020 for SA Power Networks. This represents a reduction of $107.8 million, or 2.2 per cent to SA Power Networks' revised proposal. This reduction reflects our final decision on the required inputs for determining the forecast RAB in the post-tax revenue model (PTRM). We note the submission from UnitingCare Australia on the revised proposal raised concerns with the increase to the size of SA Power Networks' RAB over the 2015–20 regulatory control period. It suggested that there is no justification for the RAB to increase significantly higher than the rate of inflation during a period of declining demand and low network utilisation.[[14]](#footnote-14) The change in the size of the RAB depends on our assessment of its various components. Inflation and capex increase the RAB, while depreciation reduces it. To determine the forecast RAB value, we have amended the PTRM inputs as a result of the following changes:

* We reduced SA Power Networks' revised proposed forecast capex for the 2015–20 regulatory control period by $230.1 million ($ nominal) or 10.2 per cent (attachment 6). As part of this, we considered the forecast network demand and utilisation rate in our assessment of forecast capex.[[15]](#footnote-15)
* We reduced SA Power Networks' revised proposed forecast regulatory depreciation for the 2015–20 regulatory control period by $122.2 million ($ nominal) or 11.8 per cent (attachment 5).
* We increased SA Power Networks' revised proposed forecast inflation rate of 2.1 per cent per annum to 2.5 per cent per annum (attachment 3).

1. NER, cl. 6.12.1(6). [↑](#footnote-ref-1)
2. SA Power Networks, Revised regulatory proposal, July 2015, p. 324. [↑](#footnote-ref-2)
3. SA Power Networks, Revised regulatory proposal, July 2015, p. 324. [↑](#footnote-ref-3)
4. SA Power Networks, Revised regulatory proposal, July 2015, p. 324. [↑](#footnote-ref-4)
5. AER, Preliminary decision, SA Power Networks determination 2015–16 to 2019–20: Attachment 2 – Regulatory asset base, April 2015, pp. 2–9. [↑](#footnote-ref-5)
6. CCP, Mr Bruce Mountain CCP2, Advice on AER preliminary decisions and revised proposals from Energex, Ergon Energy and SA Power Networks, July 2015, pp. 6–7. [↑](#footnote-ref-6)
7. AER, Preliminary decision, SA Power Networks determination 2015−16 to 2019−20: Attachment 2 − Regulatory asset base, April 2015, section 2.3.1. [↑](#footnote-ref-7)
8. NER, cl. 6.5.1(e)(3). [↑](#footnote-ref-8)
9. Such an impact would also be reflected if we were to switch methods midway through an asset's life. [↑](#footnote-ref-9)
10. The indexation of the RAB was a matter discussed extensively in the AER's final decision on APA GasNet's access arrangement. This matter also went before the Australian Competition Tribunal, who found in favour of the AER's reasoning in that final decision. See AER, Access arrangement final decision, APA GasNet Australia (Operations) Pty Ltd, 2013–17, Part 2: Attachments, 15 March 2013, pp.102–116. [↑](#footnote-ref-10)
11. This amount is before adjusting for the half-WACC to account for the timing assumption in the PTRM. [↑](#footnote-ref-11)
12. NER, cl. S6.2.1(e)(3). [↑](#footnote-ref-12)
13. The March quarter CPI is used as a proxy for the June financial year in the 2010–15 regulatory control period. As discussed in attachment 14, the December quarter CPI will be used as a proxy for the June financial year for the 2015–20 regulatory control period. [↑](#footnote-ref-13)
14. UnitingCare Australia, Submission on SA Power Networks' Revised Regulatory Proposal, 24 July 2015, pp. 20–21. [↑](#footnote-ref-14)
15. Please see section 6.3 of attachment 6 for more details. [↑](#footnote-ref-15)