

Contact Officer: Kurt Stevens  
Contact Phone: (02) 6243 1329  
Our Ref: 52294

20 May 2015

Mr Vince Graham  
Chief Executive Officer  
Ausgrid  
Level 16, 570 George Street  
SYDNEY NSW 2000

Dear Mr Graham

### **Correcting errors in Ausgrid distribution determination 2015–16 to 2018–19**

Through discussions with Ausgrid in early May 2015, we have identified the following errors in the Ausgrid distribution determination 2015–16 to 2018–19 (the distribution determination):

1. inaccurate description of metering in Appendix A to the Overview
2. inaccurate public lighting prices
3. parameter missing for control mechanism

Following those discussions, in which AER and Ausgrid staff agreed the errors should be corrected as soon as practicable, we sent a letter on 13 May 2015 proposing that we revoke and substitute the distribution determination to achieve this outcome.

In response to that letter, there were further discussions between AER and Ausgrid staff during which Ausgrid's legal advisors raised concerns about the AER's ability under the National Electricity Rules to revoke and substitute the distribution determination and suggested we seek further legal advice.

We have sought further legal advice. As a result of this advice, we have decided not to revoke and substitute the distribution determination at this time.

We still intend to correct the above listed errors in the distribution determination as soon as practicable, in accordance with clause 6.13 of the National Electricity Rules. We anticipate this would occur no earlier than the latter of:

- A. the commencement of the next regulatory control period (1 July 2015); and
- B. once any appeal in relation to the distribution determination is resolved.

As a result of our decision, the period for making an application for review of our decision does not change.

If you have any queries on this matter please contact Kurt Stevens on (02) 6243 1329.

Yours sincerely

A handwritten signature in black ink, appearing to read 'Paula Conboy'. The signature is fluid and cursive, with the first name 'Paula' and the last name 'Conboy' written in a single continuous stroke.

Paula Conboy  
AER Chair

## Attachment

### **Inaccurate description of metering in Appendix A to the Overview**

Appendix A of the Overview to our final decision for the distribution determination includes a table of constituent decisions, on which the distribution determination is predicated. The table includes a misdescription. It reads as if the type 5 and 6 unrecovered metering costs are defined as standard control services. However, the AER's reasons in Attachment 13 and Attachment 16 of the final decision make it clear that standard control services do not include the type 5 and 6 unrecovered metering cost. These are classified as part of alternative control services (as part of the type 5 and 6 metering provision).

We propose to correct this error to ensure that the type 5 and 6 unrecovered metering cost is classified as part of alternative control services, in line with our decision. We propose the following correction:

Overview, Appendix A, page 59, lines 7 and 8:

- Delete ", type 5 and 6 unrecovered meter cost."

Overview, Appendix A, page 59, lines 9 and 10:

- Delete "Alternative control services include metering types 5 and 6 provision, maintenance, reading, data services and transfer administration services, ancillary network services and public lighting."
- Insert " Alternative control services include:
  - types 5 and 6 meter provision, maintenance, reading, data services, transfer administration services (including type 5 and 6 unrecovered meter cost)
  - ancillary network services
  - public lighting."

### **Inaccurate public lighting prices**

The Ausgrid public lighting prices in Attachment 16 of the Ausgrid final decision are incorrect, for the following reasons:

- The public version of the public lighting model which Ausgrid provided and which we used for the final decision, included proxy numbers instead of actuals.
- A clerical miscalculation was made in calibrating the model. As a result, the prices the model calculated did not represent the final version of the model's inputs.

We propose to correct this error to ensure that Ausgrid's public light prices are accurate, in line with our decision. We propose the following correction:

Attachment 16, page 16-29, lines 1 to 8:

- Delete Table 16.10
- Delete "Our final decision on prices for each light type are set out in appendix X, including a reduction in post 2009 capital charges of 20 per cent from Ausgrid's revised proposal due to a lower WACC."
- Insert:

**Table 16.10 Total opex, \$millions**

	2015—16	2016—17	2017—18	2018—19
Revised Proposal	19.7	20.3	20.9	21.5
Final decision	16.0	16.4	16.9	17.3

Source: AER analysis.

Our final decision on prices for each light type are set out in appendix A.1, including a reduction in post 2009 capital charges of 20 per cent from Ausgrid's revised proposal due to a lower WACC.

Attachment 16, Appendix A.1, pages 16-68 to 16-85:

- Delete the appendix
- Insert Appendix A.1 to this letter.

### Parameter missing for control mechanism

The revenue control formula in figure 14.1 of Attachment 14 of the final decision for Ausgrid, does not include a parameter for distribution use of system under and over recoveries from previous years. As our distribution determination uses a revenue cap, the revenue control formula should include this parameter.

We propose to correct this error so that the revenue control formula includes a parameter for distribution use of system under and over recoveries from previous years, in line with our decision. We propose the following correction:

Attachment 14, pages 14-19 to 14-20, Figure 14.1:

- Delete the figure.
- Insert:

### Figure 14.1 Revenue cap formula

$$1. \quad TAR_t \geq \sum_{i=1}^n \sum_{j=1}^m p_t^{ij} q_t^{ij} \quad i=1, \dots, n \text{ and } j=1, \dots, m \text{ and } t=1, \dots, 5$$

$$2. \quad TAR_t = AR_t \pm B_t \pm DUoS_t$$

$$3. \quad AR_t = AR_{t-1}(1 + \Delta CPI_t)(1 - X_t)(1 + S_t)$$

Where:

$TAR_t$  is total annual revenue in year t.

$p_t^{ij}$  is the price of component i of tariff j in year t.

$q_t^{ij}$  is the forecast quantity of component i of tariff j in year t.

$AR_t$  is the annual smoothed expected revenue for year t. For the 2015–16 regulatory year,  $AR_{t-1}$  is the annual smoothed expected revenue in the Post Tax Revenue Model for 2014–15.

$B_t$  is:

- the approved pass through amounts (positive or negative) with respect to regulatory year t, as determined by the AER, plus
- the D-factor amounts we approve for 2013–14 (applies to Ausgrid’s pricing proposal for the regulatory year 2015–16).

$DUoS_t$  is an annual adjustment factor related to the balance of the DUoS unders and overs account with respect to regulatory year t.

$$\Delta CPI_t = \left[ \frac{CPI_{Mar,t-2} + CPI_{Jun,t-2} + CPI_{Sep,t-1} + CPI_{Dec,t-1}}{CPI_{Mar,t-3} + CPI_{Jun,t-3} + CPI_{Sep,t-2} + CPI_{Dec,t-2}} \right] - 1$$

$CPI$  means the all groups index number for the weighted average of eight capital cities as published by the ABS, or if the ABS does not or ceases to publish the index, then  $CPI$  will mean an index which the AER considers is the best estimate of the index.

$X_t$  the smoothing factor determined in accordance with the PTRM as approved in the AER's final decision, and annually revised for the return on debt update in accordance with the formula specified in the return on debt appendix I calculated for the relevant year.

$S_t$  is the STPIS factor sum of the raw s-factors for all reliability of supply and customer service parameters (as applicable) to be applied in year t.<sup>1</sup>  $S_t$  for 2015–16 and 2016–17 are set at zero.

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<sup>1</sup> In the formulas in the STPIS attachment, the  $AR_{t+1}$  is equivalent to  $AR_t$  in this formula. Calculations of the S factor adjustment are to be made accordingly.

# Appendix

## A.1 Public Lighting

### A.1.1 Public Lighting Prices 2015-16

Opex			Post 2009 Annuity Charge		
Type	Revised Proposal	Final decision	Type	Revised Proposal	Final decision
Connection - O/U (P09)	\$92.80	\$92.80	0.5 Bracket	\$10.85	\$8.15
Connection - O/U	\$92.81	\$92.81	0.6 Bracket	\$10.58	\$7.95
Connection - UGR1	\$85.07	\$85.07	1 Bracket	\$9.95	\$7.48
Connection - UGR1 (P09)	\$85.07	\$85.07	1.2 Bracket	\$10.85	\$8.15
Connection - UGR2	\$30.93	\$30.93	1.5 Bracket	\$28.17	\$21.16
Connection - UGR2 (P09)	\$30.93	\$30.93	2 Bracket	\$15.34	\$11.52
Lamp - EMPTY	\$31.95	\$31.95	2.5 Bracket	\$16.47	\$12.37
Lamp - INC1x100	\$45.55	\$45.62	3 Bracket	\$24.01	\$18.03
Lamp - INC1x1000	\$80.52	\$80.62	3.5 Bracket	\$23.83	\$17.90
Lamp - INC1x1440	\$45.42	\$45.49	4 Bracket	\$29.30	\$22.01
Lamp - INC1x150	\$47.03	\$47.10	4.5 Bracket	\$25.53	\$19.18
Lamp - INC1x150 (P09)	\$47.03	\$47.10	5 Bracket	\$33.52	\$25.17
Lamp - INC1x200	\$47.55	\$47.62	6 Bracket	\$33.70	\$25.31
Lamp - INC1x300	\$53.48	\$53.55	6.5 Bracket	\$47.88	\$35.95
Lamp - INC1x40	\$45.57	\$45.64	7 Bracket	\$47.88	\$35.95
Lamp - INC1x500	\$62.69	\$62.76	8 Bracket	\$47.88	\$35.95
Lamp - INC1x60	\$45.55	\$45.62	1x40W TF	\$25.51	\$20.93
Lamp - INC1x75	\$45.55	\$45.62	1x80W TF	\$23.45	\$19.24
Lamp - INC3x100	\$52.48	\$52.55	1000W MBF	\$123.30	\$101.11
Lamp - LED1x237	\$34.91	\$34.92	1000W SON	\$123.30	\$101.11
Lamp - LED1x29	\$29.26	\$29.27	1000W SON FLOODLIG HT	\$101.09	\$82.91
Lamp - MBF1x1000	\$87.15	\$87.29	1000W/1500W MBI	\$136.52	\$111.95

Opex			Post 2009 Annuity Charge		
			FLOODLIG		
Lamp - MBF1x1000 (P09)	\$87.15	\$87.29	100W MBI	\$47.03	\$38.58
Lamp - MBF1x125	\$63.79	\$45.25	100W MBI FLOODLIG HT	\$50.85	\$41.71
Lamp - MBF1x125 (P09)	\$63.79	\$45.25	100W SON	\$50.01	\$41.02
Lamp - MBF1x160	\$44.05	\$44.10	100W SON - PARKVILLE	\$134.21	\$110.05
Lamp - MBF1x250	\$73.54	\$51.61	100W SON FLOODLIG HT	\$72.96	\$59.84
Lamp - MBF1x250 (P09)	\$73.54	\$51.61	100W SON -PLAIN	\$50.01	\$41.02
Lamp - MBF1x400	\$75.82	\$51.61	125W MBF	\$37.01	\$30.37
Lamp - MBF1x400 (P09)	\$75.82	\$51.61	125W MBF - BOURKE HILL	\$99.01	\$81.20
Lamp - MBF1x42	\$68.06	\$42.22	125W MBF - HYDE PARK	\$76.55	\$62.78
Lamp - MBF1x42 (P09)	\$68.06	\$42.22	125W MBF - NOSTALGI A	\$100.91	\$82.75
Lamp - MBF1x50	\$75.65	\$45.43	125W MBF - PARKVILLE	\$122.75	\$100.66
Lamp - MBF1x50 (P09)	\$75.65	\$45.43	125W MBF BOLLARD	\$68.14	\$55.89
Lamp - MBF1x500	\$80.99	\$81.06	125W MBF -PLAIN	\$37.01	\$30.37
Lamp - MBF1x700	\$71.34	\$71.41	125W/250W MBF FLOODLIG HT	\$48.30	\$39.62
Lamp - MBF1x80	\$52.40	\$44.20	135W SOX	\$53.40	\$43.80
Lamp - MBF1x80 (P09)	\$52.40	\$44.20	150W SON	\$50.45	\$41.38
Lamp - MBF1x800	\$80.99	\$81.06	150W SON - HYDE PARK	\$76.55	\$62.78
Lamp - MBF2x125	\$119.07	\$63.43	150W SON -	\$134.21	\$110.05

Opex		Post 2009 Annuity Charge			
PARKVILLE					
Lamp - MBF2x125 (P09)	\$119.07	\$63.43	150W SON - PARKWAY 1	\$59.95	\$49.17
Lamp - MBF2x160	\$50.40	\$50.47	150W SON FLOODLIG HT	\$58.86	\$48.28
Lamp - MBF2x175	\$50.40	\$50.47	150W SON GEC 'BOSTON 3'	\$122.75	\$100.66
Lamp - MBF2x400	\$109.75	\$63.85	150W/250W MBI FLOODLIG HT	\$89.75	\$73.60
Lamp - MBF2x80	\$71.36	\$54.38	180W SOX	\$59.18	\$48.55
Lamp - MBF3x160	\$53.32	\$79.37	2x14W TF - T5 PIERLITE M	\$37.98	\$31.16
Lamp - MBF3x250	\$141.98	\$79.37	2x175W MBF - PARKWAY 2	\$149.03	\$122.20
Lamp - MBF3x400	\$147.26	\$79.37	2x20W TF	\$25.43	\$20.86
Lamp - MBF3x80	\$88.96	\$65.60	2x20W TF - WAVERLE Y	\$25.43	\$20.86
Lamp - MBF4x1000	\$236.13	\$188.72	2x250W SON FLOODLIG HT	\$82.34	\$67.53
Lamp - MBF4x80	\$105.31	\$76.81	2x26W TF MACQUARI E DEC.	\$116.30	\$95.37
Lamp - MBF6x125	\$234.91	\$124.69	2x400W MBF - PARKWAY 2	\$149.03	\$122.20
Lamp - MBF6x160	\$59.79	\$124.69	2x400W MBI FLOODLIG HT	\$151.22	\$124.01
Lamp - MBF9x160	\$66.83	\$170.63	2x400W SON FLOODLIG HT	\$163.03	\$133.69



Opex			Post 2009 Annuity Charge		
Lamp - MBI1x100	\$60.25	\$60.32	2x40W TF	\$39.43	\$32.34
Lamp - MBI1x100 (P09)	\$60.25	\$60.32	2x70W SON - BOURKE HILL	\$158.26	\$129.77
Lamp - MBI1x1000	\$110.26	\$110.33	2x80W MBF - BOURKE HILL	\$79.08	\$64.85
Lamp - MBI1x1000 (P09)	\$110.26	\$110.33	250W MBF	\$49.57	\$40.67
Lamp - MBI1x150	\$92.36	\$92.43	250W MBF - PARKVILLE	\$125.87	\$103.22
Lamp - MBI1x150 (P09)	\$92.36	\$92.43	250W MBF - PARKWAY 1	\$59.95	\$49.17
Lamp - MBI1x1500	\$89.14	\$89.21	250W MBI - SMARTPOL E	\$24.45	\$20.07
Lamp - MBI1x250	\$59.60	\$59.67	250W SON	\$50.45	\$41.38
Lamp - MBI1x250 (P09)	\$59.60	\$59.67	250W SON - PARKVILLE	\$144.86	\$118.79
Lamp - MBI1x3745	\$45.42	\$45.49	250W SON - PARKWAY 1	\$59.95	\$49.17
Lamp - MBI1x400	\$60.56	\$60.63	250W SON FLOODLIG HT	\$58.86	\$48.28
Lamp - MBI1x400 (P09)	\$60.56	\$60.63	250W SON GEC 'BOSTON 3'	\$125.06	\$102.55
Lamp - MBI1x500	\$77.23	\$77.30	2X14W TF - T5 PIERLIGHT	\$37.98	\$31.16
Lamp - MBI1x70	\$55.85	\$55.89	3x400W MBF - PARKWAY 3	\$149.03	\$122.20
Lamp - MBI1x70 (P09)	\$55.85	\$55.89	4x1000W MBF	\$130.04	\$106.64
Lamp - MBI1x70 II	\$67.15	\$67.22	4x20W TF	\$62.49	\$51.25
Lamp - MBI2x400	\$74.08	\$74.15	4x20W TF - WAVERLE	\$62.49	\$51.25

Opex			Post 2009		
			Annuity Charge		
			Y		
Lamp - MBI4x150	\$218.10	\$218.17	4x250W SON	\$92.53	\$75.88
Lamp - SON1x100	\$82.89	\$83.12	4x40W TF	\$74.16	\$60.82
Lamp - SON1x100 (P09)	\$82.89	\$83.12	4x40W TF - WAWERLEY	\$68.88	\$56.49
Lamp - SON1x1000	\$86.29	\$86.37	4x600W SON	\$140.23	\$114.99
Lamp - SON1x1000 (P09)	\$86.29	\$86.37	400W MBF	\$39.93	\$32.76
Lamp - SON1x120	\$54.76	\$54.85	400W MBF - PARKWAY 1	\$82.34	\$67.53
Lamp - SON1x150	\$85.83	\$71.50	400W MBF FLOODLIGHT	\$90.44	\$74.17
Lamp - SON1x150 (P09)	\$85.83	\$71.50	400W MBI - SMARTPOLE	\$24.45	\$20.07
Lamp - SON1x150 AR	\$64.16	\$64.28	400W MBI FLOODLIGHT	\$68.45	\$56.14
Lamp - SON1x220	\$66.44	\$66.53	400W SON	\$54.71	\$44.87
Lamp - SON1x250	\$87.88	\$74.85	400W SON - PARKWAY 1	\$59.95	\$49.17
Lamp - SON1x250 (P09)	\$87.88	\$74.85	400W SON FLOODLIGHT	\$58.86	\$48.28
Lamp - SON1x250 AR	\$65.18	\$65.31	40W SOX	\$25.51	\$20.93
Lamp - SON1x310	\$65.41	\$65.50	42W MBF SYLVANIA SUB ECO	\$34.84	\$28.58
Lamp - SON1x360	\$65.41	\$65.50	500W MBI FLOODLIGHT	\$86.51	\$70.95
Lamp - SON1x400	\$95.00	\$72.86	50W MBF	\$26.10	\$21.42
Lamp - SON1x400 (P09)	\$95.00	\$72.86	50W MBF - BOURKE HILL	\$79.08	\$64.85
Lamp - SON1x400 AR	\$91.71	\$91.86	50W MBF - NOSTALGI	\$79.08	\$64.85

Opex			Post 2009 Annuity Charge		
			A		
Lamp - SON1x50	\$47.79	\$47.85	50W MBF - PLAIN	\$26.10	\$21.42
Lamp - SON1x50 (P09)	\$47.79	\$47.85	50W MBF BOLLARD	\$49.85	\$40.88
Lamp - SON1x70	\$63.76	\$63.89	50W SON	\$25.23	\$20.70
Lamp - SON1x70 (P09)	\$63.76	\$63.89	50W SON - BOURKE HILL	\$88.52	\$72.59
Lamp - SON2x250	\$135.76	\$120.47	50W SON - NOSTALGI A	\$39.76	\$32.61
Lamp - SON2x250 (P09)	\$135.76	\$120.47	60W SOX	\$25.51	\$20.93
Lamp - SON2x400	\$148.21	\$112.92	700W MBF	\$53.18	\$43.62
Lamp - SON2x70	\$92.67	\$92.92	70W MBI	\$32.83	\$26.93
Lamp - SON3x70	\$166.56	\$176.64	70W MBI - MACQUARIE DEC.	\$137.10	\$112.43
Lamp - SON4x250	\$214.01	\$214.83	70W SON	\$28.73	\$23.57
Lamp - SON4x600	\$227.40	\$228.29	70W SON - BOURKE HILL	\$88.52	\$72.59
Lamp - SON4x70	\$143.08	\$143.52	70W SON - GEC BOSTON 2	\$103.65	\$84.99
Lamp - SON8x70	\$221.27	\$221.98	70W SON - NOSTALGI A	\$82.50	\$67.65
Lamp - SOX1x135	\$60.92	\$61.01	70W SON - PARKVILLE	\$103.65	\$84.99
Lamp - SOX1x150	\$60.92	\$61.01	70W SON - REGAL/FLINDERS	\$146.52	\$120.14
Lamp - SOX1x180	\$129.38	\$129.46	70W SON BOLLARD	\$62.82	\$51.52
Lamp - SOX1x90	\$54.67	\$54.73	70W SON FLOODLIGHT	\$34.78	\$28.53
Lamp - TF1x16	\$45.22	\$45.29	70W SON - PLAIN	\$28.73	\$23.57
Lamp - TF1x176	\$52.38	\$52.48	750W MBI FLOODLIGHT	\$86.51	\$70.95

Opex			Post 2009 Annuity Charge		
			HT		
Lamp - TF1x20	\$45.22	\$45.29	80W MBF	\$24.86	\$20.40
Lamp - TF1x236	\$52.38	\$52.48	80W MBF - PLAIN	\$24.86	\$20.40
Lamp - TF1x26	\$45.22	\$45.29	80W MBF - BEGA+CU RVE BRA	\$129.62	\$106.28
Lamp - TF1x40	\$65.99	\$66.17	80W MBF - BOURKE HILL	\$60.38	\$49.52
Lamp - TF1x40 (P09)	\$65.99	\$66.17	80W MBF - GEC BOSTON 2	\$103.65	\$84.99
Lamp - TF1x60	\$45.22	\$45.29	80W MBF - NOSTALGI A	\$77.75	\$63.76
Lamp - TF1x80	\$45.57	\$45.64	80W MBF - REGAL/FLI NDERS	\$141.31	\$115.87
Lamp - TF2x14 T5	\$52.60	\$52.67	80W MBF - SYLVANIA SUBUR	\$24.86	\$20.40
Lamp - TF2x14 T5 (P09)	\$52.60	\$52.67	80W MBF BOLLARD	\$49.85	\$40.88
Lamp - TF2x20	\$54.86	\$54.98	80W MBF TOORAK	\$70.88	\$58.13
Lamp - TF2x20 (P09)	\$54.86	\$54.98	90W SOX	\$70.76	\$58.04
Lamp - TF2x26	\$45.77	\$45.84	BOLLARD	\$39.01	\$29.28
Lamp - TF2x26 (P09)	\$45.77	\$45.84	C4	\$64.76	\$48.62
Lamp - TF2x40	\$45.77	\$45.84	COLUMN 10.5M- 13.5M	\$734.30	\$551.79
Lamp - TF2x58	\$45.77	\$45.84	COLUMN 14M-15M	\$734.30	\$551.79
Lamp - TF2x80	\$45.77	\$45.84	COLUMN 2.5M-3.5M	\$661.06	\$496.81
Lamp - TF3x20	\$46.33	\$46.40	COLUMN 4- 6.5M ORION WATE	\$675.42	\$507.59
Lamp - TF3x40	\$46.33	\$46.40	COLUMN 4M-6.5M	\$698.58	\$524.98

Opex			Post 2009 Annuity Charge		
Lamp - TF3x80	\$47.28	\$47.35	COLUMN 7M-10M	\$686.91	\$516.22
Lamp - TF4x20	\$46.88	\$46.95	DECORATI VE COLUMN	\$713.48	\$536.16
Lamp - TF4x40	\$46.88	\$46.95	DEDICATE D SUPPORT & COND	\$671.30	\$504.49
Lamp - TF4x40 (P09)	\$46.88	\$46.95	HYDE PARK STANDARD	\$767.51	\$576.72
Lamp - TF4x80	\$48.13	\$48.20	INCANDES CENT	\$19.75	\$16.21
Lamp - TF5x58	\$47.43	\$47.50	MACQUARI E STANDARD	\$46.49	\$34.90
Lamp - TF5x65	\$47.43	\$47.50	MAST 15.5M-30M	\$694.45	\$521.88
Lamp - TF5x80	\$48.98	\$49.05	MAST 23M	\$694.45	\$521.88
Lamp - TF6x20	\$47.98	\$48.05	MAST 25M	\$694.45	\$521.88
Lamp - TF6x36	\$47.98	\$48.05	NIL	\$5.11	\$3.84
Lamp - TF6x80	\$49.83	\$49.90	O/U	\$10.40	\$8.53
Lamp - TH1x1000	\$61.80	\$61.91	ORION DOUBLE ARM	\$31.57	\$23.70
Lamp - TH1x1500	\$59.76	\$59.87	POLO 10.5M DECORATI VE 2M	\$62.83	\$47.17
Lamp - TH1x400	\$67.27	\$67.38	POLO 4.5M DECORATI VE 1.2	\$62.83	\$47.17
Lamp - TH1x500	\$56.05	\$56.15	ROCKS STANDARD	\$683.52	\$513.67
Lamp - TH1x500 (P09)	\$56.05	\$56.15	SMARTPOL E DOUBLE	\$5.11	\$3.84
Lamp - TH1x750	\$62.52	\$62.63	SMARTPOL E SINGLE LONG	\$5.11	\$3.84
			SMARTPOL E SINGLE SHORT	\$5.11	\$3.84

Opex	Post 2009 Annuity Charge		
	SUSPENDE D	\$15.88	\$11.92
	T1	\$21.35	\$16.03
	T2	\$28.68	\$21.53
	T2A	\$28.68	\$21.53
	T3	\$28.68	\$21.53
	T3A	\$28.68	\$21.53
	T4	\$28.95	\$21.74
	T5	\$28.95	\$21.74
	T6	\$33.70	\$25.31
	T7	\$33.70	\$25.31
	TH FLOODLIG HT	\$146.94	\$120.49
	UGORDA	\$10.40	\$8.53
	UGR1	\$14.44	\$11.84
	UGR2	\$10.40	\$8.53
	UGS	\$10.40	\$8.53
	EMPTY	\$16.27	\$13.36
	PRIVATE	\$5.11	\$3.84
	PRIVATE	\$16.27	\$13.36
	0.5 (P09)	\$10.85	\$8.15
	1.2 (P09)	\$10.85	\$8.15
	1000W SON (P09)	\$123.30	\$101.11
	100W SON (P09)	\$50.01	\$41.02
	100W SON Floodlight (P09)	\$72.96	\$59.84
	100W SON -PLAIN (P09)	\$50.01	\$41.02
	125W MBF (P09)	\$37.01	\$30.37
	125W MBF -PLAIN	\$37.01	\$30.37

Opex	Post 2009 Annuity Charge (P09)		
	150W SON - Parkway 1 (P09)	\$59.95	\$49.17
	150W SON (P09)	\$50.45	\$41.38
	150W SON Active Reactor	\$73.60	\$60.37
	150W SON Floodlight (P09)	\$58.86	\$48.28
	1x29W LED	\$46.34	\$38.01
	2.0 (P09)	\$15.34	\$11.52
	250W SON - Parkway 1(P09)	\$59.95	\$49.17
	250W SON (P09)	\$50.45	\$41.38
	250W SON Active Reactor	\$73.60	\$60.37
	250W SON Floodlight (P09)	\$58.86	\$48.28
	2x14W TF - T5 Pierlight (P09)	\$37.98	\$31.16
	3.0 (P09)	\$24.01	\$18.03
	3.5 (P09)	\$23.83	\$17.90
	4.0 (P09)	\$29.30	\$22.01
	400W SON - Parkway 1(P09)	\$59.95	\$49.17
	400W SON (P09)	\$54.71	\$44.87
	400W SON Active Reactor	\$82.34	\$67.53
	400W SON Floodlight (P09)	\$58.86	\$48.28

Opex	Post 2009 Annuity Charge		
	42W MBF - Sylvania Suburban Ec (P09)	\$34.84	\$28.58
	70W MBI II	\$28.83	\$23.66
	70W MBI II AERO	\$29.93	\$24.55
	70W SON - Nostalgia (P09)	\$82.50	\$67.65
	70W SON (P09)	\$28.73	\$23.57
	70W SON Floodlight (P09)	\$34.78	\$28.53
	70W SON - PLAIN (P09)	\$28.73	\$23.57
	80W MBF - Bourke Hill (P09)	\$60.38	\$49.52
	80W MBF - PLAIN (P09)	\$24.86	\$20.40
	80W MBF - Sylvania Suburban (P09)	\$24.86	\$20.40
	Column 10.5m-13.5m (P09)	\$734.30	\$551.79
	Column 2.5m-3.5m (P09)	\$661.06	\$496.81
	Column 4m-6.5m (P09)	\$698.58	\$524.98
	Column 7m-10m (P09)	\$686.91	\$516.22
	Dedicated Support & Conductor (P09)	\$52.96	\$39.75
	Macquarie Standard (P09)	\$46.49	\$34.90



Opex	Post 2009 Annuity Charge		
	O/U (P09)	\$10.40	\$8.53
	Orion Double Arm (P09)	\$31.57	\$23.70
	Suspended (P09)	\$10.77	\$8.09
	T1 (P09)	\$23.92	\$17.96
	T2A (P09)	\$28.68	\$21.53
	T3 (P09)	\$28.68	\$21.53
	T4 (P09)	\$28.95	\$21.74
	T5 (P09)	\$28.95	\$21.74
	T6 (P09)	\$33.70	\$25.31
	T7 (P09)	\$33.70	\$25.31
	UGR1 (P09)	\$14.44	\$11.84
	UGR2 (P09)	\$10.40	\$8.53

**Table 16.21: Pre-2009 capital charge**

Customer	FY16		FY17		FY18		FY19	
	Revised proposal	Final decision	Revised proposal	Final decision	Revised proposal	Final decision	Revised proposal	Final decision
Customer 1	\$211,219	\$201,867	\$159,491	\$145,680	\$120,431	\$105,132	\$90,937	\$75,870
Customer 2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Customer 3	\$477,006	\$451,774	\$465,345	\$417,417	\$453,969	\$385,673	\$442,871	\$356,343
Customer 4	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Customer 5	\$1,073,877	\$1,024,697	\$998,965	\$909,562	\$929,279	\$807,364	\$864,454	\$716,648
Customer 6	\$266	\$250	\$185	\$163	\$128	\$106	\$89	\$69
Customer 7	\$313,694	\$303,468	\$278,116	\$260,279	\$246,573	\$223,236	\$218,607	\$191,465
Customer 8	\$206,654	\$196,186	\$205,682	\$185,371	\$204,714	\$175,153	\$203,751	\$165,498
Customer 9	\$711,356	\$678,833	\$692,919	\$631,008	\$674,960	\$586,552	\$657,466	\$545,228
Customer 10	\$9,843	\$9,167	\$8,060	\$6,991	\$6,600	\$5,331	\$5,404	\$4,065
Customer 11	\$222,481	\$212,298	\$215,877	\$196,569	\$209,470	\$182,004	\$203,252	\$168,519
Customer 12	\$445,947	\$423,141	\$435,827	\$392,389	\$425,936	\$363,873	\$416,270	\$337,428
Customer 12	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Customer 14	\$640,182	\$619,456	\$583,137	\$545,989	\$531,175	\$481,235	\$483,844	\$424,161
Customer 15	\$1,446,136	\$1,386,732	\$1,345,948	\$1,237,643	\$1,252,702	\$1,104,583	\$1,165,916	\$985,829
Customer 16	\$2,702	\$2,492	\$2,301	\$1,957	\$1,959	\$1,536	\$1,668	\$1,206
Customer 17	\$2,906	\$2,686	\$2,848	\$2,432	\$2,790	\$2,203	\$2,734	\$1,995

Customer	FY16		FY17		FY18		FY19	
Customer 18	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Customer 19	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Customer 20	\$4,953	\$4,606	\$5,364	\$4,639	\$5,809	\$4,673	\$6,291	\$4,706
Customer 21	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Customer 22	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Customer 23	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Customer 24	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Customer 25	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Customer 26	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Customer 27	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Customer 28	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Customer 29	\$675	\$641	\$605	\$545	\$542	\$464	\$485	\$395
Customer 30	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Customer 31	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Customer 32	\$19,881	\$18,742	\$17,095	\$15,193	\$14,700	\$12,316	\$12,640	\$9,984
Customer 33	\$1,096,757	\$1,053,516	\$1,093,802	\$1,009,253	\$1,090,855	\$966,850	\$1,087,916	\$926,228
Customer 34	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Customer 35	\$1,148,474	\$1,100,824	\$1,127,434	\$1,035,820	\$1,106,779	\$974,655	\$1,086,502	\$917,101
Customer 36	\$88,011	\$83,722	\$84,510	\$76,474	\$81,148	\$69,854	\$77,921	\$63,807
Customer 37	\$464,333	\$444,476	\$453,577	\$415,611	\$443,069	\$388,621	\$432,805	\$363,384



Customer	FY16		FY17		FY18		FY19	
Customer 58	\$1,091,792	\$1,058,083	\$1,120,469	\$1,052,348	\$1,149,898	\$1,046,645	\$1,180,101	\$1,040,972
Customer 59	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Customer 60	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Customer 61	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Customer 62	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Customer 63	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Customer 64	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Customer 65	\$905	\$839	\$896	\$770	\$887	\$707	\$878	\$648
Customer 66	\$864	\$803	\$777	\$671	\$698	\$560	\$627	\$468
Customer 67	\$266,651	\$258,060	\$204,259	\$191,309	\$156,466	\$141,824	\$119,855	\$105,140
Customer 68	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Customer 68	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Customer 70	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Customer 71	\$160	\$152	\$143	\$129	\$127	\$110	\$114	\$93
Customer 72	\$5,244	\$4,906	\$5,172	\$4,528	\$5,101	\$4,178	\$5,031	\$3,856
Customer 73	\$168,637	\$154,908	\$132,487	\$111,793	\$104,086	\$80,678	\$81,773	\$58,223
Customer 74	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Customer 75	\$282,252	\$267,777	\$313,306	\$281,994	\$347,776	\$296,965	\$386,038	\$312,732
Customer 76	\$43	\$42	\$24	\$23	\$13	\$13	\$8	\$7
Customer 77	\$1,012	\$922	\$528	\$438	\$276	\$208	\$144	\$99

Customer	FY16		FY17		FY18		FY19	
Customer 78	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Customer 79	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Customer 80	\$827,659	\$793,638	\$803,026	\$738,367	\$779,127	\$686,945	\$755,939	\$639,104
Customer 81	\$25,929	\$24,297	\$29,094	\$25,546	\$32,645	\$26,860	\$36,629	\$28,241
Customer 82	\$633,164	\$604,634	\$617,813	\$563,390	\$602,833	\$524,959	\$588,217	\$489,150
Customer 83	\$129	\$118	\$42	\$35	\$14	\$11	\$4	\$3
Customer 84	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Customer 85	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Customer 86	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Customer 87	\$261	\$244	\$156	\$137	\$93	\$77	\$56	\$43
Customer 88	\$132,834	\$125,066	\$147,449	\$130,707	\$163,672	\$136,602	\$181,679	\$142,763
Customer 89	\$7,843	\$7,576	\$7,390	\$6,895	\$6,963	\$6,276	\$6,561	\$5,712
Customer 90	\$196,724	\$190,234	\$180,823	\$169,088	\$166,207	\$150,293	\$152,772	\$133,587
Customer 91	\$1,635,789	\$1,572,512	\$1,610,327	\$1,488,153	\$1,585,261	\$1,408,319	\$1,560,585	\$1,332,768
Customer 92	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Customer 93	\$53,585	\$50,564	\$56,017	\$49,878	\$58,558	\$49,201	\$61,215	\$48,534
Customer 94	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Customer 95	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Customer 96	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Customer 97	\$25,657	\$24,037	\$23,463	\$20,594	\$21,456	\$17,644	\$19,621	\$15,117

Customer	FY16		FY17		FY18		FY19	
Customer 98	\$70,800	\$68,525	\$69,671	\$65,267	\$68,561	\$62,163	\$67,468	\$59,207
Customer 99	\$753,213	\$730,309	\$676,479	\$635,965	\$607,563	\$553,808	\$545,668	\$482,265
Customer 100	\$346,975	\$332,342	\$326,071	\$299,149	\$306,426	\$269,270	\$287,965	\$242,376
Customer 101	\$398,230	\$379,643	\$385,668	\$350,506	\$373,502	\$323,606	\$361,719	\$298,770
Customer 102	\$407,729	\$391,314	\$368,220	\$339,168	\$332,540	\$293,971	\$300,318	\$254,798
Customer 103	\$1,016,057	\$963,995	\$1,022,407	\$920,316	\$1,028,796	\$878,616	\$1,035,225	\$838,805
Customer 104	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$20,628,888	\$19,763,014	\$19,813,573	\$18,178,342	\$19,131,609	\$16,801,994	\$18,569,411	\$15,602,547