

Endeavour Energy

Placeholder determination for the transitional regulatory control period 2014–15

April 2014



No. 5

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1 The AER's Determination for Endeavour Energy

Clause 6.12.1 (as modified by clauses 11.55 and 11.56) and clauses 11.56.1 and 11.56.3 of the National Electricity Rules (NER) give the AER the role to determine the following for Endeavour Energy.

1.1 Length of regulatory control period

The AER determines that the transitional regulatory control period will be one year, commencing on 1 July 2014 and ending on 30 June 2015.

1.2 Classification of services

The AER determines that, for the transitional regulatory control period, services provided by Endeavour Energy should be grouped and classified as set out in table 1.1. This is consistent with the Stage 1 framework and approach paper, which is a modification of the classification of services in the current regulatory control period.¹

¹ AER, Stage 1 framework and approach paper – Ausgrid, Endeavour Energy and Essential Energy, March 2013.

Table 1.1 AER determination for the classification of distribution services for Endeavour Energy

Network services (excluding emergency recoverable works which are unclassified)	Direct control	Standard control
		Standard control
Connection services		
Premises connections	Unclassified	
Extensions	Unclassified	
Augmentations	Direct control	Standard control
Metering services		
Types 1 to 4	Unclassified	
Types 5 to 6:		
a. Installation services	Unclassified	
b. Meter provision, maintenance, reading and data services	Direct control	Alternative control
Туре 7	Direct control	Standard control
Ancillary network services (excluding customer specific services which are unclassified)	Direct control	Alternative control
Public lighting services	Direct control	Alternative control

Source: AER analysis.

1.3 Incentive schemes

The AER determines that the efficiency benefit sharing scheme (EBSS) that will apply to Endeavour Energy for the transitional regulatory control period is that applied to Endeavour Energy in the current regulatory control period, with modifications to align it with version 2 of the EBSS and applied as if the transitional regulatory control period was the first year of the subsequent regulatory control period. This is consistent with the Stage 2 framework and approach paper.²

² AER, Stage 2 framework and approach paper – Ausgrid, Endeavour Energy and Essential Energy, January 2014.

The AER determines that no:

- capital expenditure sharing scheme (CESS), or
- small scale investment scheme,

is to apply to Endeavour Energy in the transitional regulatory control period.

The AER determines that Part A of the demand management innovation allowance (DMIA), which applied to Endeavour Energy in the current regulatory control period, applies to Endeavour Energy in the transitional regulatory control period. However, Part B of the DMIA and the D-Factor scheme for NSW distributors do not apply in the transitional regulatory control period. The DMIA is a component of the demand management incentive scheme (DMIS). The rules have since changed the name from DMIS to demand management and embedded generation connection incentive scheme (DMEGCIS).

The revenue rewards and penalties of the service target performance incentive scheme (STPIS) did not apply to Endeavour Energy in the current regulatory control period and the AER determines that they will not apply in the transitional regulatory control period. However, the reporting obligations did apply in the current regulatory control period and the AER determines that they continue to apply.

1.4 Appropriate amounts, values or inputs

The AER determines that all appropriate amounts, values and inputs are as set out in this determination.

1.5 Control mechanisms

Standard control services

The relevant control mechanism and formulae for standard control services is as set out in the Stage 1 framework and approach paper.³ The AER determines to apply a revenue cap with a basis of CPI-X form to standard control services for the transitional regulatory control period.

Alternative control services

The AER determines to apply price cap regulation to alternative control services in the transitional regulatory control period. Alternative control service prices in the transitional regulatory control period must be the current prices escalated by CPI.⁴

The AER determines to apply the following formulae to alternative control services, which remain classified as alternative control services. The AER considers that the formula gives effect to the cap on the prices of individual services:

 $\overline{p}_i^t \ge p_i^t$

i=1,...,n and t=1,2,3,4

 $\overline{p}_{i}^{t} = \overline{p}_{i}^{t-1}(1 + CPI_{t})(1 - X_{i}^{t}) + A_{i}^{t}$

 ³ AER, Stage 1 framework and approach paper – Ausgrid, Endeavour Energy and Essential Energy, March 2013.
 ⁴ NER, clause 11.56.3(j).

Where:

 $\overline{P}_i^{'}$ is the cap on the price of service i in year t

 p'_i is the price of service i in year t

 CPI_t is the percentage increase in the consumer price index.

 X_i^t is the X-factor for service i in year t. For 2014–15, X_i^t is set at zero.

 \overline{P}_{i}^{0} is the cap on the price of service i in the transitional regulatory control period. As specified in the transitional rules, \overline{P}_{i}^{0} will be prices from the final year of the 2009–14 regulatory control period escalated by CPI.

 A_i^r is an adjustment factor. Likely to include, but not limited to adjustments for residual charges when customers choose to replace assets before the end of their economic life. For 2014–15 A_i^r is set at zero.

Applying the formula above, the list of prices set out in appendix A are the charges that will apply for Endeavour Energy's alternative control services for the transitional regulatory control period.

1.6 Manner of demonstration of compliance with the control mechanism

The manner of demonstration of compliance with a relevant control mechanism is as set out in the Stage 1 framework and approach paper.⁵

1.7 Pass throughs

The AER determines that pass through events for the transitional regulatory control period will be:

- the same additional pass through events that were decided in the distribution determination for the current regulatory control period for Endeavour Energy; and
- the "terrorism event" as defined in the Rules immediately prior to the date the National Electricity Amendment (Cost pass through arrangements for Network Service Providers) Rule 2012 came into force.

1.8 Negotiating framework

The AER determines that the negotiating framework that is to apply to Endeavour Energy for the transitional regulatory control period is the negotiating framework that was approved as part of the distribution determination for the current regulatory control period for Endeavour Energy.

⁵ AER, Stage 1 framework and approach paper – Ausgrid, Endeavour Energy and Essential Energy, March 2013.

1.9 Negotiated distribution service criteria

The AER determines that the negotiated distribution service criteria for Endeavour Energy for the transitional regulatory control period are the negotiated distribution service criteria that were specified as part of the distribution determination for the current regulatory control period for Endeavour Energy.

1.10 Assigning retail customers to tariff classes

The AER determines that the procedures for assigning retail customers to tariff classes or reassigning retail customers from one tariff class to another, including any applicable restrictions, are the same as those specified as part of the distribution determination for the current regulatory control period for Endeavour Energy.

1.11 Depreciation

The AER determines to use the same depreciation approach which applies in the current regulatory control period to establish the regulatory asset base at the commencement of the subsequent regulatory control period.

1.12 Reporting on recovery of charges and adjustments

The AER determines that Endeavour Energy is to report on its recovery of designated pricing proposal charges and on the adjustments to be made to subsequent pricing proposals in the same manner as during the current regulatory control period for Endeavour Energy.

1.13 Reporting on the recovering of jurisdictional scheme amounts and adjustments

The AER determines that Endeavour Energy is to report to the AER on its recovery of jurisdictional scheme amounts and on the adjustments to be made to subsequent pricing proposals in the same manner as during the current regulatory control period.

1.14 Annual revenue requirement

The AER does not approve Endeavour Energy's annual revenue requirement proposal. The AER is not satisfied that the amount is such that the recovery of it by Endeavour Energy is reasonably likely to minimise variations in prices between the relevant regulatory control periods and years.

The AER approves \$949 million (\$nominal) as the annual revenue requirement for Endeavour Energy's distribution network for the transitional regulatory control period which we are satisfied meets the applicable requirements of the NER.⁶

1.15 Connection policy

The AER determines that the connection policy in appendix B will apply to Endeavour Energy for the transitional regulatory control period.

⁶ Of the \$949 million, \$940 million (\$ nominal) relates to Distribution Use of System (DUOS) revenue that reflects costs associated with standard control services (including metering); the remaining balance reflects revenues arising from ancillary network services.

Appendices

A Alternative control service price list

A.1 Endeavour Energy—public lighting

Table A.1Endeavour Energy—public lighting tariff class 1—2014–15 tariffs (\$, nominal,
exc GST)

AER Tariff Class 1—Capital Funded by Endeavour Energy			
Tariff Code	Tariff Description	2014-15 tariffs (\$, nominal, exc. GST)	
FLUORESCENT			
218	2x14W WP IE (LEGACY)	70.18	
220	2x14W FL COL IE (LEGACY)	188.41	
112	2x20W FL SIGN LIVERP. IE (LEGACY)	168.05	
68	2x20W FL COL IE (LEGACY)	168.05	
69	4x20W FL COL IE (LEGACY)	286.54	
13	20W FL WP IE (LEGACY)	44.35	
14	2x20W FL WP IE (LEGACY)	49.83	
15	3x20W FL WP IE (LEGACY)	126.99	
221	2x24W FL COL IE (LEGACY)	168.05	
219	2x24W WP IE (LEGACY)	49.83	
195	2x18W FL DOWNL. LIV. IE (LEGACY)	162.32	
70	40W FL COL IE (LEGACY)	162.32	
63	40W FL URD COL IE (LEGACY)	89.16	
85	2x40W FL MILPERRA BG. IE (LEGACY)	163.07	
18	40W FL WP IE (LEGACY)	44.09	
19	2x40W FL WP IE (LEGACY)	44.83	
20	3x40W FL WP IE (LEGACY)	126.20	

223	42W CFL COL IE (LEGACY)	162.32
222	42W CFL WP IE (LEGACY)	44.09
INCANDESCENT		
1	60W INC WP IE (LEGACY)	43.94
144	100W INC PEDX COL IE (LEGACY)	161.27
3	100W INC WP IE (LEGACY)	43.04
8	150W INC F/L WP IE (LEGACY)	43.04
9	500W QI F/L WP IE (LEGACY)	61.34
129	1000W QI F/L WP IE (LEGACY)	18.33
12	1500W INC F/L WP IE (LEGACY)	18.33
MERCURY		
185	50W MF COL IE (LEGACY)	171.12
177	50W MF WP IE (LEGACY)	52.89
104	80W MF COL IE (LEGACY)	171.12
149	80W MF P/T COL IE (LEGACY)	171.12
188	80W MF PRESTIGE COL IE (LEGACY)	171.12
147	80W MF P/T URD COL IE (LEGACY)	97.97
186	80W MF URD COL IE (LEGACY)	97.97
93	80W MF WP IE (LEGACY)	52.89
187	80W MF URD PRESTIGE IE (LEGACY)	97.97
97	125W MF COL IE (LEGACY)	171.12
131	125W MF P/T COL IE (LEGACY)	171.12
94	125W MF WP IE (LEGACY)	52.89
158	125W MF F/L WP IE (LEGACY)	52.89

98	250W MF COL IE (LEGACY)	293.39
132	250W MF P/T COL IE (LEGACY)	293.39
49	250W MERC COL IE (LEGACY)	293.39
100	2x250W MF 2 LANT COL IE (LEGACY)	353.58
30	250W MERC WP IE (LEGACY)	78.53
95	250W MF WP IE (LEGACY)	78.53
114	250W MF F/L WP IE (LEGACY)	78.53
99	400W MF COL IE (LEGACY)	297.47
121	400W MF P/T COL IE (LEGACY)	297.47
122	400W MF F/L COL IE (LEGACY)	297.47
101	2x400W MF 2 LANT COL IE (LEGACY)	361.74
60	3x400W MF PT COL IE (LEGACY)	426.02
31	400W MERC WP IE (LEGACY)	82.60
96	400W MF WP IE (LEGACY)	82.60
115	400W MF F/L WP IE (LEGACY)	82.60
178	700W MF WP IE (LEGACY)	82.60
METAL HALIDE		
217	100W MH COL IE (LEGACY)	210.72
216	100W MH WP IE (LEGACY)	92.50
215	150W MH COL IE (LEGACY)	304.02
199	150W MH WP IE (LEGACY)	89.15
213	250MH COL IE (LEGACY)	312.53
214	2 x 250W MH COL IE (LEGACY)	391.89
198	250W MH WP IE (LEGACY)	97.67

211	400W MH COL IE (LEGACY)	321.95
212	2 x 400W MH COL IE (LEGACY)	410.73
197	400W MH WP IE (LEGACY)	107.10
196	1000W MH WP IE (LEGACY)	138.19
HIGH PRESSURE SODIUM		
182	50W SHP WP IE (LEGACY)	79.87
183	70W SHP COL IE (LEGACY)	294.73
184	70W SHP WP IE (LEGACY)	79.87
167	100W SHP COL IE (LEGACY)	294.73
168	100W SHP P/T COL IE (LEGACY)	294.73
169	100W SHP WP IE (LEGACY)	79.87
162	120W SHP COL IE (LEGACY)	294.73
163	120W SHP P/T COL IE (LEGACY)	294.73
150	120W SHP WP IE (LEGACY)	79.87
157	120W SHP F/L WP IE (LEGACY)	79.87
171	150W SHP F/L COL IE (LEGACY)	294.73
173	150W SHP P/T COL IE (LEGACY)	294.73
193	150W SDL MACQUARIE IE (LEGACY)	294.73
194	150W SDL LIVERP. CBD IE (LEGACY)	294.73
143	150W SHP COL IE (LEGACY)	294.73
142	150W SHP WP IE (LEGACY)	79.87
170	150W SHP F/L WP IE (LEGACY)	79.87
55	250W SHP COL IE (LEGACY)	297.11
119	250W SHP F/L COL IE (LEGACY)	297.11

154	250W SHP P/T COL IE (LEGACY)	297.11
141	250W SHP PED F/L COL IE (LEGACY)	297.11
103	2x250W SHP COL IE (LEGACY)	361.03
38	250W SHP WP IE (LEGACY)	82.25
134	250W SHP F/L WP IE (LEGACY)	82.25
140	250W SHP PED F/L WP IE (LEGACY)	82.25
56	310W SHP COL IE (LEGACY)	297.11
146	2x310 SHP P/T COL IE (LEGACY)	361.03
24	310W SHP PED F/L WP IE (LEGACY)	82.25
39	310W SHP WP IE (LEGACY)	82.25
45	400W SHP PED F/L COL IE (LEGACY)	309.57
57	400W SHP COL IE (LEGACY)	309.57
123	400W SHP F/L COL IE (LEGACY)	309.57
190	400W SHP P/T COL IE (LEGACY)	309.57
102	2x400W SHP 2 LANT COL IE (LEGACY)	385.95
159	2x400W SHP COL IE (LEGACY)	385.95
151	3x400W SHP 3 LANT COL IE (LEGACY)	462.34
153	3x400W SHP 2 LANT COL IE (LEGACY)	462.34
152	4x400W SHP 2 LANT COL IE (LEGACY)	538.73
25	400W SHP PED F/L WP IE (LEGACY)	94.71
40	400W SHP WP IE (LEGACY)	94.71
130	400W SHP F/L WP IE (LEGACY)	94.71
136	2x400W SHP WP IE (LEGACY)	171.09
135	2x600W SHP 2 LANT COL IE (LEGACY)	408.55

43	4x600W SHP WP IE (LEGACY)	369.07
88	4x600W SHP V/WOOD IE (LEGACY)	369.07

4x600W SHP 7HILLS IE (LEGACY)

33	55W SLP WP IE (LEGACY)	79.87
52	90W SLP COL IE (LEGACY)	294.73
34	90W SLP WP IE (LEGACY)	79.87
53	135W SLP COL IE (LEGACY)	294.73
35	135W SLP WP IE (LEGACY)	79.87
54	180W SLP COL IE (LEGACY)	294.73
36	180W SLP WP IE (LEGACY)	79.87
SUPPORT ONLY		

224	Minor Bracket	3.03
225	Major Bracket	18.33
226	Minor Col + Outreach	121.26
227	Major Col + Outreach	233.19

Source: AER analysis.

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LOW PRESSURE SODIUM

Table A.2 Endeavour Energy—public lighting tariff class 2—2014–15 tariffs (\$, nominal, exc GST)

Tariff Class 2 - Capital Not Funded by Endeavour Energy			
Tariff Code	Tariff Description	2014-15 tariffs (\$, nominal, exc. GST)	
FLUORESCENT			
413	2x14W FL COL GIFTED (LEGACY)	91.05	
415	2x14W WP GIFTED (LEGACY)	45.96	

369.07

414	2x24W FL COL GIFTED (LEGACY)	91.88
416	2x24W WP GIFTED (LEGACY)	46.79
303	40W FL COL GIFTED (LEGACY)	86.14
398	IDENTILITE GIFTED (LEGACY)	291.42
399	STATION SIGN GIFTED (LEGACY)	291.42
305	40WFL WP GIFTED (LEGACY)	41.05
306	2x40W FL WP GIFTED (LEGACY)	41.80
422	42W CFL COL GIFTED (LEGACY)	86.14
421	42W CFL WP GIFTED (LEGACY)	41.05
INCANDESCENT		
395	TRAFFIC FLASH GIFTED (LEGACY)	125.10
MERCURY		
307	50W MF COL GIFTED (LEGACY)	84.58
308	50W MF WP GIFTED (LEGACY)	39.49
309	80W MF COL GIFTED (LEGACY)	84.58
310	80W MF PREST COL GIFTED (LEGACY)	84.58
311	80W MF P/T COL GIFTED (LEGACY)	84.58
312	80W MF P/T URD COL GIFTED (LEGACY)	84.58
313	80W MF URD COL GIFTED (LEGACY)	84.58
314	80W MF URD PREST GIFTED (LEGACY)	84.58
315	80W MF WP GIFTED (LEGACY)	39.49
316	125W MF COL GIFTED (LEGACY)	84.58
401	125W MF COL Parra GIFTED (LEGACY)	84.58

20W FL WP GIFTED (LEGACY)

302

41.32

317	125W MF P/T COL GIFTED (LEGACY)	84.58
318	125W MF WP GIFTED (LEGACY)	39.49
320	250W MF COL GIFTED (LEGACY)	90.42
321	250W MF F/L COL GIFTED (LEGACY)	90.42
323	250W MF WP GIFTED (LEGACY)	45.33
326	400W MF COL GIFTED (LEGACY)	91.05
329	400W MF WP GIFTED (LEGACY)	45.96
330	400W MF F/L WP GIFTED (LEGACY)	45.96
METAL HALIDE		
412	100W MH COL GIFTED (LEGACY)	104.49
411	100W MH WP GIFTED (LEGACY)	59.41
410	150W MH COL GIFTED (LEGACY)	99.34
400	150W MH COL Parra GIFTED (LEGACY)	99.34
365	150W MH WP GIFTED (LEGACY)	54.25
402	250W MH COL GIFTED (LEGACY)	107.40
403	2 x 250W MH COL GIFTED (LEGACY)	169.71
366	250W MH WP GIFTED (LEGACY)	62.32
404	400W MH COL GIFTED (LEGACY)	112.87
405	2 x 400W MH COL GIFTED (LEGACY)	180.67
396	400W MH WP GIFTED (LEGACY)	67.79
397	1000W MH WP GIFTED (LEGACY)	91.52
HIGH PRESSURE SODIUM		
335	50W HPS WP GIFTED (LEGACY)	45.53
336	70W HPS COL GIFTED (LEGACY)	90.61

337	70W HPS WP GIFTED (LEGACY)	45.53
380	100W HPS COL GIFTED (LEGACY)	90.61
381	100W HPS WP GIFTED (LEGACY)	45.53
338	150W SHP COL GIFTED (LEGACY)	90.61
339	150W SHP F/L COL GIFTED (LEGACY)	90.61
340	150W SHP P/T COL GIFTED (LEGACY)	90.61
341	150W SHP WP GIFTED (LEGACY)	45.53
343	250W SHP COL GIFTED (LEGACY)	92.54
344	250W SHP F/L COL GIFTED (LEGACY)	92.54
345	250W SHP F/L COL GIFTED (LEGACY)	92.54
350	2x250W SHP COL GIFTED (LEGACY)	139.99
347	250W SHP WP GIFTED (LEGACY)	47.46
348	250W SHP F/L WP GIFTED (LEGACY)	47.46
349	250W SHP F/L WP GIFTED (LEGACY)	47.46
352	400W SHP COL GIFTED (LEGACY)	101.19
353	400W SHP F/L COL GIFTED (LEGACY)	101.19
354	400W SHP F/L COL GIFTED (LEGACY)	101.19
358	2x400W SHP COL GIFTED (LEGACY)	157.29
360	2x400W SHP COL GIFTED (LEGACY)	157.29
355	400W SHP WP GIFTED (LEGACY)	56.10
357	400W SHP F/L WP GIFTED (LEGACY)	56.10
356	400W SHP F/L WP GIFTED (LEGACY)	56.10
361	2x400W SHP WP GIFTED (LEGACY)	112.21
75	4x40W FL SIGN CAB WP IE (LEGACY)	44.83

70W HPS WP GIFTED (LEGACY)

337

45.53

80	2x40W FL MAP LIVER. IE (LEGACY)			
332	70W HPS P/T COL GIFTED (LEGACY)	90.61		
346	250W SHP P/T COL GIFTED (LEGACY)	92.54		
SUPPORT ONLY				
423	Minor Col + Outreach	45.08		
424	Major Col + Outreach	45.08		

Source: AER analysis.

Table A.3Endeavour Energy—public lighting tariff class 3—2014–15 tariffs (\$, nominal,
exc GST)

AER Tariff Class 3 - Capital Funded by Endeavour Energy				
ltem	Tariff Description	2014-15 tariffs (\$, nominal, exc. GST)		
Minor Road - Standard				
F2x14	2 x 14W Energy Efficient Fluorescent	96.74		
F2x24	2 x 24W Energy Efficient Fluorescent	99.76		
CFL42	1 x 42W Compact Fluorescent	94.31		
CFL42	Bourke Hill 42W CFL	151.07		
M50	50W Mercury	79.93		
M80	80W Mercury	74.24		
S70	70W Sodium	94.74		
MH70	Suburban 70 Watt HPS c/w D2 PECB	93.83		
S100	100W Sodium	93.18		
MH100	100W Metal Halide	94.16		
Major Road - Standard				
S150	150W Sodium	92.43		

MH150	150W Metal Halide	104.26
S250	250W Sodium	97.66
S250	Parkville 250W HPS	192.71
MH250	250W Metal Halide	112.62
S400	400W Sodium	106.59
Minor Road - Fully Cut Off (Low Glare)		
M80	80W Mercury	80.48
CFL42	Urban Aeroscreen 42 Watt CFL c/w D2 PECB	104.85
Major Road - Fully Cut Off (Low Glare)		
S100	Roadster Aeroscreen 100 Watt HPS c/w PECB	111.23
S150	150W Sodium	102.32
MH150	150W Metal Halide	114.14
S250	250W Sodium (w/o PECB)	110.35
MH250	250W Metal Halide	125.32
S400	400W Sodium	115.14
MH400	400W Metal Halide	126.82
Post Top - Standard		
M80	80W Mercury	90.33
CFL42	B2001 42 Watt CFL c/w D2 PECB painted green	104.85
Floodlight		
S150	FL42 150 Watt HPS - Narrow Beam	119.67
MH150	FL42 150 Watt MH - Narrow Beam	124.11
S250	250W Sodium	127.90

MH250	250W Metal Halide	142.85
S400	400W Sodium	139.83
MH400	400W Metal Halide	151.51
Brackets		
Bracket - Minor	Bracket - Minor	8.23
Bracket - Major	Bracket - Major	49.82
Outreach		
Outreach - Minor	Outreach - Minor	10.38
Outreach - Major	Outreach - Major	20.73
Dedicated Pole (Wood)		
Dedicated Pole (Wood) - Minor	Dedicated Pole (Wood) - Minor	205.91
Dedicated Pole (Wood) - Major	Dedicated Pole (Wood) - Major	222.89
Column (Steel)		
Column (Steel) - Minor	Column (Steel) - Minor	272.89
Column (Steel) - Major	Column (Steel) - Major	613.66
Source: AER analysis.		

Table A.4Endeavour Energy—public lighting tariff class 4—2014–15 tariffs (\$, nominal,
exc GST)

AER Tariff Class 4 - Capital Not Funded by Endeavour Energy				
Item	Tariff Description	2014-15 tariffs (\$, nominal, exc. GST)		
Minor Road - Standard				
F2x14	2 x 14W Energy Efficient Fluorescent	60.50		
F2x24	2 x 24W Energy Efficient Fluorescent	62.69		
CFL42	1 x 42W Compact Fluorescent	63.56		

CFL42	Bourke Hill 42W CFL	79.53
M50	50W Mercury	52.63
M80	80W Mercury	49.02
S70	70W Sodium	66.20
MH70	Suburban 70 Watt HPS c/w D2 PECB	65.44
S100	100W Sodium	68.17
MH100	100W Metal Halide	69.16
Major Road - Standard		
S150	150W Sodium	56.17
MH150	150W Metal Halide	68.00
S250	250W Sodium	61.47
S250	Parkville 250W HPS	85.10
MH250	250W Metal Halide	76.43
S400	400W Sodium	70.27
Minor Road - Fully Cut Off (Low Glare)		
M80	80W Mercury	50.77
CFL42	Urban Aeroscreen 42 Watt CFL c/w D2 PECB	66.52
Major Road - Fully Cut Off (Low Glare)		
S100	Roadster Aeroscreen 100 Watt HPS c/w PECB	72.74
S150	150W Sodium	58.95
MH150	150W Metal Halide	70.78
S250	250W Sodium (w/o PECB)	65.05
MH250	250W Metal Halide	80.01

S400	400W Sodium	72.68
MH400	400W Metal Halide	84.36
Post Top - Standard		
M80	80W Mercury	53.55
CFL42	B2001 42 Watt CFL c/w D2 PECB painted green	66.52
Floodlight		
S150	FL42 150 Watt HPS - Narrow Beam	63.46
MH150	FL42 150 Watt MH - Narrow Beam	67.91
S250	250W Sodium	69.98
MH250	250W Metal Halide	84.94
S400	400W Sodium	79.63
MH400	400W Metal Halide	91.31
Brackets		
Bracket - Minor	Bracket - Minor	3.05
Bracket - Major	Bracket - Major	18.46
Outreach		
Outreach - Minor	Outreach - Minor	3.84
Outreach - Major	Outreach - Major	7.68
Dedicated Pole (Wood)		
Dedicated Pole (Wood) - Minor	Dedicated Pole (Wood) - Minor	114.62
Dedicated Pole (Wood) - Major	Dedicated Pole (Wood) - Major	114.62
Column (Steel)		
Column (Steel) - Minor	Column (Steel) - Minor	129.47
Column (Steel) - Major	Column (Steel) - Major	255.74

Source: AER analysis.

A.2 Endeavour Energy—ancillary network services

Table A.5 Endeavour Energy – miscellaneous fees – 2014-15 tariffs (\$, nominal, exc. GST)

Туре	2014-15 tariffs (\$, nominal, exc. GST)
Off Peak Conversions	60
Rectification Works	227
Disconnections at Pole	152
Reconnections at Pole	0
Meter Test Fee	75
Disconnections at Meter box	90
Disconnection Visit	45
Controlled Load Conversion	60
Special Meter Read	45

Source: AER analysis.

Table A.6 Endeavour Energy—monopoly services—2014–15 tariffs (\$, nominal, exc. GST)

Category	Sub Category	Measure	Туре	Standard Hours	2014-15 tariffs (\$, nominal, exc. GST)
Administration fee					
Subdivision	URD	Underground - Number of lots	1-5	3	198
	URD	Underground - Number of lots	6-10	4	265
	URD	Underground - Number of lots	11- 40	5	330
	URD	Underground - Number of lots	41 +	6	397

	Non Urban	Underground - Number of lots	1-5	3	198
	Non Urban	Underground - Number of lots	6-10	4	265
	Non Urban	Underground - Number of lots	11-40	5	330
	Non Urban	Underground - Number of lots	41 +	6	397
	Non Urban	Overhead - Number of poles	1-5	3	198
	Non Urban	Overhead - Number of poles	6-10	4	265
	Non Urban	Overhead - Number of poles	11 +	6	397
	Industrial / Commercial	Per Hour	Maximum 6 Hours	⁵ Hourly	65
	URD	Per Hour	Minimum 3 hours	³ Hourly	65
	Industrial / Commercial	Per Hour	Minimum 3 hours	³ Hourly	65
	Non Urban	Underground - Per Hour	Maximum 6 Hours	B Hourly	65
Connection of Load	Non Urban	Overhead - Number of poles	1-5	3	198
	Non Urban	Overhead - Number of poles	6-10	4	265
	Non Urban	Overhead - Number of poles	11 +	6	397
Other	Asset Relocation	Per Hour	Minimum 3 hours	³ Hourly	65
	Public Lighting	Per Hour	Minimum 3 hours	³ Hourly	65

Design informati	on fee						
	URD		Underground - Number of lots	1-5		2	163
	URD		Underground - Number of lots	6-10		3	245
	URD		Underground - Number of lots	11-40		5	408
Subdivision	URD		Underground - Number of lots	41 +		6	490
	Non Urban		Per Hour	Minimum hours	2	Hourly	82
	Industrial Commercial	/	Per Hour	Minimum hours	2	Hourly	82
	Industrial Commercial	/	<= 200A/Phase (LV)	Minimum hours	6	Hourly	82
	Industrial Commercial	/	<= 700A/Phase (LV)	Minimum hours	12	Hourly	82
	Industrial Commercial	/	> 700A/Phase (LV)	Minimum hours	20	Hourly	82
	Industrial Commercial	/	HV Customer	Minimum hours	25	Hourly	82
Connection of	Industrial Commercial	/	Transmission	Minimum hours	35	Hourly	82
Load	Multi-Dwelling		<= 5 units	Minimum hours	2	Hourly	82
	Multi-Dwelling		<= 20 units	Minimum hours	5	Hourly	82
	Multi-Dwelling		<= 40 units	Minimum hours	10	Hourly	82
	Multi-Dwelling		> 40 units	Minimum hours	20	Hourly	82
	Non Urban - I&C		<= 200A/Phase (LV)	Minimum hours	6	Hourly	82

	Non Urban - I&C	<= 700A/Phase (LV)	Minimum hours	12	Hourly	82
	Non Urban - I&C	> 700A/Phase (LV)	Minimum hours	20	Hourly	82
	Non Urban - I&C	HV Customer	Minimum hours	25	Hourly	82
	Non Urban - I&C	Transmission	Minimum hours	35	Hourly	82
	Non Urban - Multi- Dwelling	<= 5 units	Minimum hours	2	Hourly	82
	Non Urban - Multi- Dwelling	<= 20 units	Minimum hours	5	Hourly	82
	Non Urban - Multi- Dwelling	<= 40 units	Minimum hours	10	Hourly	82
	Non Urban - Multi- Dwelling	> 40 units	Minimum hours	20	Hourly	82
	Non Urban - Single Residential	Per Hour	Minimum hours	2	Hourly	82
	Asset Relocation	\$106 Per Hour	Minimum hours	2	Hourly	99
Other	Asset Relocation	\$88 Per Hour	Minimum hours	2	Hourly	82
	Public Lighting	\$106 Per Hour	Minimum hours	2	Hourly	99
	Public Lighting	\$88 Per Hour	Minimum hours	2	Hourly	82
Design certificati	on fee					
	URD	Underground - Number of lots	1-5		1	82
Subdivision	URD	Underground - Number of lots	6-10		2	163
	URD	Underground - Number of lots	11-40		3	245

		URD		Underground - Number of lots	41 +		4	326
		Non Urban		Underground - Number of lots	1-5		1	82
		Non Urban		Underground - Number of lots	6-10		2	163
		Non Urban		Underground - Number of lots	11-40		3	245
		Non Urban		Underground - Number of lots	41 +		4	326
		Non Urban		Overhead - Number of poles	1-5		1	82
		Non Urban		Overhead - Number of poles	6-10		2	163
		Non Urban		Overhead - Number of poles	11 +		3	245
		Industrial Commercial	/	Underground - Number of lots	1-10		2	163
		Industrial Commercial	/	Underground - Number of lots	11-40		3	245
		Industrial Commercial	/	Underground - Number of lots	41 +		6	490
		Industrial Commercial	/	Overhead - Number of poles	1-5		1	82
		Industrial Commercial	/	Overhead - Number of poles	6-10		2	163
		Industrial Commercial	/	Overhead - Number of poles	11 +		3	245
Connection o	of	Industrial Commercial	/	<= 200A/Phase (LV)	Minimum hours	5	Hourly	99
		Industrial Commercial	/	<= 700A/Phase (LV)	Minimum hours	10	Hourly	99

	Industrial / Commercial	> 700A/Phase (LV)	Minimum hours	15	Hourly	99
	Industrial / Commercial	HV Customer	Minimum hours	20	Hourly	99
	Industrial / Commercial	Transmission	Minimum hours	35	Hourly	99
	Multi-Dwelling	<= 5 units	Minimum hours	2	Hourly	99
	Multi-Dwelling	<= 20 units	Minimum hours	5	Hourly	99
	Multi-Dwelling	<= 40 units	Minimum hours	10	Hourly	99
	Multi-Dwelling	> 40 units	Minimum hours	15	Hourly	99
	Non Urban	Underground - Per Hour	Minimum hours	2	Hourly	99
	Non Urban	Underground - Number of poles	1-5		1	82
	Non Urban	Underground - Number of poles	6-10		2	163
	Non Urban	Underground - Number of poles	11 +		3	245
	Indoor Substation	Per Hour	Minimum hours	3	1	99
	Asset Relocation	\$106 Per Hour			Hourly	99
Other	Asset Relocation	\$88 Per Hour			Hourly	82
Other	Public Lighting	\$106 Per Hour			Hourly	99
	Public Lighting	\$88 Per Hour			Hourly	82
Design re-certifica	ation fee					
Subdivision	Industrial & Commercial	\$88 Per Hour	Minimum hours	2	Hourly	82

	Non Urban		\$88 Per Hour	Minimum hours	2	Hourly	82
	URD		\$88 Per Hour	Minimum hours	2	Hourly	82
	Industrial Commercial	&	\$106 Per Hour	Minimum hours	2	Hourly	99
Connection o	Non Urban of		\$106 Per Hour	Minimum hours	2	Hourly	99
	URD		\$106 Per Hour	Minimum hours	2	Hourly	99
	Asset Relocation		\$106 Per Hour			Hourly	99
Other	Asset Relocation		\$88 Per Hour			Hourly	82
-	Public Lighting		\$106 Per Hour			Hourly	99
	Public Lighting		\$88 Per Hour			Hourly	82

Notification of arrangement

	Industrial Commercial	&	\$212 Per Request	Per Request	3	198			
	Non Urban		\$212 Per Request	Per Request	3	198			
	URD		\$212 Per Request	Per Request	3	198			
Subdivision	Industrial Commercial	&	\$70 per hour for early notification of arrangement	Early Notification	Hourly	65			
	Non Urban		\$70 per hour for early notification of arrangement	Early Notification	Hourly	65			
	URD		\$70 per hour for early notification of arrangement	Early Notification	Hourly	65			
Compliance certi	Compliance certificate								

	Industrial 8 Commercial	\$212 Per Request	Per Request	3	198
	Non Urban	\$212 Per Request	Per Request	3	198
	URD	\$212 Per Request	Per Request	3	198
Connection of Load	Industrial & Commercial	\$70 per hour for early compliance certificate	Early Compliance	Hourly	65
	Non Urban	\$70 per hour for early compliance certificate	Early Compliance	Hourly	65
	URD	\$70 per hour for early compliance certificate	Early Compliance	Hourly	65
Inspection fee					
	URD	Underground per lot - ASP Grade "A"	1-10	1	41
	URD	Underground per lot - ASP Grade "A"	11-50	0	24
	URD	Underground per lot - ASP Grade "A"	51 +	0	8
	URD	Underground per lot - ASP Grade "B"	1-10	1	99
Subdivision	URD	Underground per lot - ASP Grade "B"	11-50	1	58
	URD	Underground per lot - ASP Grade "B"	51 +	0	33
	URD	Underground per lot - ASP Grade "C"	1-10	3	205
	URD	Underground per lot - ASP Grade "C"	11-50	2	123
	URD	Underground per lot - ASP Grade "C"	51 +	1	58
	URD	Underground per hour	Per Hour	Hourly	82

No		Underground per lot - ASP Grade "A"	1-10	1	41
No		Underground per lot - ASP Grade "A"	11-50	0	24
No		Underground per lot - ASP Grade "A"	51 +	0	8
No		Underground per lot - ASP Grade "B"	1-10	1	99
No	on Urban	Underground per lot - ASP Grade "B"	11-50	1	58
No		Underground per lot - ASP Grade "B"	51 +	0	33
No	on Urban	Underground per lot - ASP Grade "C"	1-10	3	205
No		Underground per lot - ASP Grade "C"	11-50	2	123
No	on Urban	Underground per lot - ASP Grade "C"	51 +	1	58
No	on Urban	Overhead per pole or pole sub - ASP Grade "A"	1-5	1	49
No	on Urban	Overhead per pole or pole sub - ASP Grade "A"	6-10	1	41
No	on Urban	Overhead per pole or pole sub - ASP Grade "A"	11 +	0	33
No		Overhead per pole or pole sub - ASP Grade "A"	per pole sub	4	286
No	on Urban	Overhead per pole or pole sub - ASP Grade "B"	1-5	1	99
No	n Urban	Overhead per pole or pole sub - ASP Grade "B"	6-10	1	82
No	n Urban	Overhead per pole	11 +	1	58

Grade "B"

Non Urban	Overhead per pole or pole sub - ASP per pole sub 7 571 Grade "B"	
Non Urban	Overhead per pole or pole sub - ASP 1-5 2 181 Grade "C"	
Non Urban	Overhead per pole or pole sub - ASP 6-10 2 163 Grade "C"	
Non Urban	Overhead per pole or pole sub - ASP 11 + 2 123 Grade "C"	
Non Urban	Overhead per pole or pole sub - ASP per pole sub 9 721 Grade "C"	
Industrial Commercial	/ Overhead per pole / or pole sub - ASP 1-5 1 49 Grade "A"	
Industrial Commercial	/ Overhead per pole / or pole sub - ASP 6-10 1 41 Grade "A"	
Industrial Commercial	/ Overhead per pole or pole sub - ASP 11 + 0 33 Grade "A"	
Industrial Commercial	/ Overhead per pole / or pole sub - ASP per pole sub 4 286 Grade "A"	
Industrial Commercial	/ Overhead per pole / or pole sub - ASP 1-5 1 99 Grade "B"	
Industrial Commercial	/ Overhead per pole / or pole sub - ASP 6-10 1 82 Grade "B"	
Industrial Commercial	/ Overhead per pole / or pole sub - ASP 11 + 1 58 Grade "B"	
Industrial Commercial	/ Overhead per pole / or pole sub - ASP per pole sub 7 571 Grade "B"	

	Industrial Commercial	/	Overhead per pole or pole sub - ASP Grade "C"	1-5	2	181
	Industrial Commercial	/	Overhead per pole or pole sub - ASP Grade "C"	6-10	2	163
	Industrial Commercial	/	Overhead per pole or pole sub - ASP Grade "C"	11 +	2	123
	Industrial Commercial	/	Overhead per pole or pole sub - ASP Grade "C"	per pole sub	9	721
	Industrial Commercial	/	Underground per lot - ASP Grade "A"	1 - 10	1	41
	Industrial Commercial	/	Underground per lot - ASP Grade "A"	11 - 50	1	41
	Industrial Commercial	/	Underground per lot - ASP Grade "A"	51 +	1	41
	Industrial Commercial	/	Underground per lot - ASP Grade "B"	1 - 10	1	99
	Industrial Commercial	/	Underground per lot - ASP Grade "B"	11 - 50	1	99
	Industrial Commercial	/	Underground per lot - ASP Grade "B"	51 +	1	99
	Industrial Commercial	/	Underground per lot - ASP Grade "C"	1 - 10	3	205
	Industrial Commercial	/	Underground per lot - ASP Grade "C"	11 - 50	3	205
	Industrial Commercial	/	Underground per lot - ASP Grade "C"	51 +	3	205
	URD		Underground - Per Hour	Per Hour	Hourly	82
Connection of Load	URD		Underground - Per Hour	Per Hour	Hourly	99
	Non Urban		Underground - Per Hour	Per Hour	Hourly	82

Non Urban		Underground - Per Hour	Per Hour	Hourly	99
Non Urban		Overhead - Per Pole	1 -5	1	49
Non Urban		Overhead - Per Pole	1 -5	1	99
Non Urban		Overhead - Per Pole	1 -5	2	181
Non Urban		Overhead - Per Pole	6 - 10	1	41
Non Urban		Overhead - Per Pole	6 - 10	1	82
Non Urban		Overhead - Per Pole	6 - 10	2	163
Non Urban		Overhead - Per Pole	11 +	0	33
Non Urban		Overhead - Per Pole	11 +	1	58
Non Urban		Overhead - Per Pole	11 +	2	123
Non Urban		Overhead - Per Sub	Per Pole Sub	4	287
Non Urban		Overhead - Per Sub	Per Pole Sub	7	574
Non Urban		Overhead - Per Sub	Per Pole Sub	9	721
Industrial Commercial	/	Underground - Per Hour	Per Hour	Hourly	82
Industrial Commercial	/	Underground - Per Hour	Per Hour	Hourly	99
Industrial Commercial	/	Overhead - Per Pole	1 -5	1	49
Industrial Commercial	/	Overhead - Per Pole	1 -5	1	99
Industrial Commercial	/	Overhead - Per Pole	1 -5	2	181
Industrial Commercial	/	Overhead - Per Pole	6 - 10	1	41
Industrial Commercial	/	Overhead - Per Pole	6 - 10	1	82

	Industrial / Commercial	Overhead - Per Pole	6 - 10	2	163
	Industrial / Commercial	Overhead - Per Pole	11 +	0	33
	Industrial / Commercial	Overhead - Per Pole	11 +	1	58
	Industrial / Commercial	Overhead - Per Pole	11 +	2	123
	Industrial / Commercial	Overhead - Per Sub	Per Pole Sub	4	287
	Industrial / Commercial	Overhead - Per Sub	Per Pole Sub	7	574
	Industrial / Commercial	Overhead - Per Sub	Per Pole Sub	9	721
	Asset Relocation	Per Hour	Per Hour	Hourly	82
Other	Asset Relocation	Per Hour	Per Hour	Hourly	99
	Public Lighting Assets	Per Hour	Per Hour	Hourly	82
	Public Lighting Assets	Per Hour	Per Hour	Hourly	99

Inspection of works outside normal working hours

All Other	Industrial Commercial	&	Admin Fee switching	+	overtime	hours	+	Admin fee	33
All Other	Non Urban		Admin Fee switching	+	overtime	hours	+	Overtime hours	62
All Other	URD		Admin Fee switching	+	overtime	hours	+	Switching	1210
All Other	Asset Relocation		Admin Fee switching	+	overtime	hours	+		
All Other	Public Lighting		Admin Fee switching	+	overtime	hours	+		

Reinspection Fee (Level 1 & Level 2 work)

All	All	\$88 Per Hour	Per Hour	Hourly	82
Reinspection (Se	ervice Provider)				
All	All	Per Hour	Maximum \$88		
Inspection of ser	vice work (Level 2 work)				
	All	Per NOSW	A Grade	0.25	21
All	All	Per NOSW	B Grade	0.41	34
	All	Per NOSW	C Grade	1.20	98
Provision of Acc	ess Fee (Standby)				
All	All	Normal Time - 1 x Visit - Open / Close - 1 hour	Per Job	1	66
All	All	Normal Time - 1 x Visit - Open / Isolate & CSO to close - 1 hour	Per Job	1	148
All	All	Normal Time - 2 x Visit - Open / Close & no isolation - 2 hours	Per Job	2	131
All	All	Normal Time - 2 x Visit - Open / Isolate / Close - 2 hours	Per Job	2	295
All	All	Overtime - 1 x Visit - Open / Close - 1 hour	Per Job	1	115
All	All	Overtime - 1 x Visit - Open / Isolate & CSO to close - 1 hour	Per Job	1	258
All	All	Overtime - 2 x Visit - Open / Close & no isolation - 2 hours	Per Job	2	230
All	All	Overtime - 2 x Visit - Open / Isolate / Close - 2 hours	Per Job	2	517

System Switchin	g Fee				
Subdivision	URD		\$30 Per Lot	Per Lot	28
All Other	Industrial a Commercial	&	Per access authorisation (AA) or authority to work (ATW)	Per AA or ATW	1210
All Other	Non Urban		Per access authorisation (AA) or authority to work (ATW)	Per AA or ATW	1210
All Other	URD		Per access authorisation (AA) or authority to work (ATW)	Per AA or ATW	1210
All Other	Asset Relocation		Per access authorisation (AA) or authority to work (ATW)	Per AA or ATW	1210
All Other	Public Lighting		Per access authorisation (AA) or authority to work (ATW)	Per AA or ATW	1210
Substation Comr	nission Fee				
Subdivision	URD		\$30 Per Lot	Per Lot	28
All Other	Industrial Commercial	&	\$975 Per Substation	Per Substation	909
All Other	Non Urban		\$975 Per Substation	Per Substation	909
All Other	URD		\$975 Per Substation	Per Substation	909
All Other	Asset Relocation		\$975 Per Substation	Per Substation	909
All Other	Public Lighting		\$975 Per Substation	Per Substation	909
Authorisation					
All	All		Per Request	Per Request	163

Site Establishment Fee

All	All	Per new NMI	Per NMI	142
Property En	quiries			
All	All	Per Enquiry		34

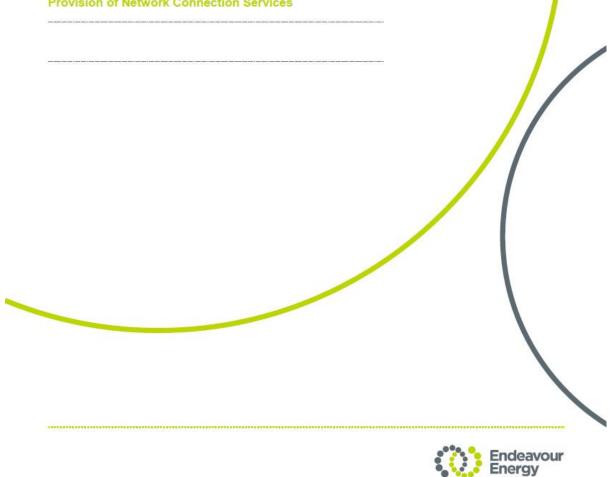
Source: AER analysis.

Connection policy to apply to Endeavour Energy B



CONNECTION POLICY

Provision of Network Connection Services



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1.0 Introduction

1.1 About Endeavour Energy

Endeavour Energy is a New South Wales state-owned energy corporation incorporated under the Energy Services Corporations Act 1995 and operating an electricity distribution system under the Electricity Supply Act 1995, the National Electricity Law and the National Energy Retail Law.

1.2 Connection to our distribution system

If you are a connection applicant¹ seeking to connect premises to our distribution system (or to alter an existing connection) then you may apply for a new connection (or connection alteration) under Chapter 5A of the National Electricity Rules (**NER**).

Some connection services are provided solely by us under Chapter 5A of the NER while other connection services, called "contestable services", are provided by an Accredited Service Provider (ASP) of your choice under the *Electricity Supply (General) Regulation 1995*.

1.3 Purpose and scope of this document

The purpose of this document is to set out the connection charges for the specific connection services provided by us under Chapter 5A of the NER. It is our Connection Policy for the purposes of Part DA of Chapter 6 of the National Electricity Rules (NER). This is addressed in section 2 below.

This document also provides information about how our specific connection services are provided and how they interact with the contestable services provided by an ASP separately engaged by you. The remaining sections of this document deal with this.

2.0 Connection Services provided by Endeavour Energy

The specific connection services we provide fall into the following three categories:

- (1) Ancillary Network Services
- (2) Endeavour Energy Provided Connection Works
- (3) Endeavour Energy Provided Chargeable Connection Services

An explanation of each of these services and the charges that apply in respect of them is set out below.

Under chapter 5A of the NER, we are also entitled to charge for our costs of negotiating a negotiated connection contract and for our a site inspection we reasonably need to make. These charges are also described below.

2.1 Ancillary Network Services

Ancillary Network Services (previously known as Monopoly Services) are the main services we provide in respect of new connections and connection alterations. They essentially cover our interactions with



¹ A connection applicant must be a retail customer, a retailer or someone else acting on behalf of a retail customer or a real estate developer, clause 5A.D.3.National Electricity Rules

ASPs to ensure that the connection works undertaken by them meet appropriate design and technical requirements to be connected to and form part of our network.

Some of the Ancillary Network Services we provide in relation to new connections and connection alterations are as follows:

- Design information
- Design certification
- Design rechecking
- Inspection of service work (level 1 work)
- Inspection of service work (level 2 work)
- Re-inspection of level 1 or level 2 work
- Re-inspection of work of a service provider
- Access permit
- Substation commissioning
- Administration
- Notice of arrangement
- Access
- Authorisation
- Site establishment

Each of these services is more fully described in Appendix 1 attached. A full list and description of Ancillary Network Services we provide can be found in the Network Price List.

Connection Charges Payable and Basis for Charges

Ancillary Network Service charges will apply to each retail customer who:

- (a) engages an Accredited Service Provider to undertake contestable connection services; and
- (b) enters into a connection contract with us.

These charges for Ancillary Network Services have been set by the Australian Energy Regulator under its Transitional Distribution Determination for Endeavour Energy which will apply from 1 July 2014 to 30 June 2015 and are set out in the Network Price List. The list of charges for Ancillary Network Services also includes charges for ancillary services that do not relate to new connections or connection alterations.

2.2 Endeavour Energy Provided Connection Works

Endeavour Energy Provided Connection Works are high voltage connection works to be installed in order to service a multi-occupant development that is connected or to be connected to an urban network where:

- (a) at the time of receipt of an application for customer connection services in respect of the multioccupant development, there is a reasonable likelihood that those works will be used by other customers outside the development in the foreseeable future; or
- (b) those works are capable of being physically moved and usefully employed in another location (whether or not this is likely to occur).

We do not charge for these works.



2.3 Endeavour Energy Provided Chargeable Connection Services

Endeavour Energy Provided Chargeable Connection Services means certain types of augmentation works (excluding extensions) to Endeavour's own existing distribution network assets, plant or equipment where these are required to enable connection services to be provided to you and which need to be undertaken by us:

- (a) to ensure we can meet our system security, reliability or health and safety obligations; or
- (b) because those works require specialised services unavailable in the market for contestable services.

Extensions to our existing network which are required to enable connection services to be provided to you are contestable services provided separately by the ASP of your choice. Accordingly they do not form part of Endeavour Energy Provided Chargeable Connection Services.

Charge Payable

Retail customers will be required to pay a connection charge for Endeavour Energy Provided Chargeable Connection Services where:

- they are necessary in order to enable connection services (excluding Basic Connection Services) to be provided to you and they are unavailable from other service providers (for the reasons set out above); and
- (b) annual demand for energy consumed at your premises exceeds or is likely to exceed a threshold of 25kVA on single wire earth return lines (SWER) or a maximum capacity of 100 Ampere 3 phase low voltage elsewhere in the distribution network.

Retail customers (other than non-regulated embedded generators and real estate developers) will **not** be required to pay a connection charge for Endeavour Energy Provided Chargeable Connection Services where the above threshold is not exceeded.

Basis of Calculating the Charge

Where the chargeable connection services are necessary in order to provide a standard connection service, we will charge you a reasonable capital contribution towards the cost of the augmentation in accordance with clause 5A.E.1(c)(3).

The basis on which this charge is calculated is as follows:

- Labour cost is calculated by multiplying the estimated number of hours to complete the work by the relevant hourly rate as approved for Ancillary Network Services.
- All other costs, including material and subcontract costs, will be charged at cost.

Such costs will be set out from time to time in our Network Price List.

Where the chargeable connection services are necessary in order to provide a negotiated connection service, we may charge you a reasonable capital contribution towards the cost of augmentation, including the amount we consider necessary to provide efficiently for forecast load growth, in accordance with clause 5A.E.1(c)(4).

The basis on which this charge is calculated is as follows:



- Labour cost is calculated by multiplying the estimated number of hours to complete the work by the relevant hourly rate as approved for Ancillary Network Services
- All other costs, including material and subcontract costs, will be charged at cost.

Such costs will be set out from time to time in our Network Price List.

Where the chargeable connection services are necessary in order to provide connection services for premises comprised in a real estate development, we may charge you a reasonable capital contribution towards the cost of augmentation, including the amount we consider necessary to provide efficiently for forecast load growth, in accordance with clause 5A.E.1(c)(5).

The basis on which this charge is calculated is as follows:

- Labour cost is calculated by multiplying the estimated number of hours to complete the work by the relevant hourly rate as approved for Ancillary Network Services
- All other costs, including material and subcontract costs, will be charged at cost.

Such costs will be set out from time to time in our Network Price List.

Connection Charges are in addition to and have not been separately recovered through distribution use of system charges that are charged separately to your retailer, or a tariff applicable to the connection.

2.4 Connection negotiation and site inspection fees under chapter 5A NER

2.4.1 Chapter 5A NER Fees

In accordance with chapter 5A of the NER, we may charge two additional fees as outlined below. Refer to clause 5A.D.4 Site Inspection and clause 5A.C.4 Fee to cover cost of negotiation, of chapter 5A.

2.4.2 Site Inspection fee

No allowance has been made in the published fee structure for a site visit. If you request a site visit by our staff, additional charges may apply based on the estimated time involved. All time involved in the site visit will be charged at the R3 rate as shown in the table in 4.2.5 of the Network Price List.

2.4.3 Negotiation Fee

We will charge a connection applicant for a negotiated connection contract a reasonable fee to cover expenses directly and reasonably incurred by us in assessing your application and making a connection offer. We will recover this fee as a debt (whether or not you accept the connection offer). This fee will be calculated by multiplying the number of hours spent in making the assessment and connection offer and preparing estimates associated with negotiation costs by the R3 rate.

3.0 Contestable Connection Works provided by ASPs

The *Electricity Supply Act 1995* specifies requirements relating to the provision of customer connection services and allows customers to choose suppliers for providing those services - these are contestable works (please refer to the NSW Trade and Investment Code of Practice – Contestable Works).

Under Section 31 of the *Electricity Supply Act 1995 (NSW)* all customer connection works are fully contestable, with the exception of those specific items for which the AER has approved ancillary network charges (please refer to section 2.1 above). All contestable works must be carried out by an Accredited Service Provider (ASP), accredited under Part 10 of the *Electricity Supply (General) Regulation* and appropriately authorised by us when working on or near the existing network.



The work is subject to our design, construction and installation standards and can only be performed by an ASP chosen by you. You and your ASP must comply at all times with the Service and Installation Rules of NSW.

The ASP scheme is administered by NSW Trade and Investment. The scheme allows ASPs to carry out design, service, distribution, and transmission works. The ASP scheme accredits the company, and it is then the company's responsibility for employing/sub-contracting suitably qualified, experienced and authorised (where required) personnel.

The three levels of ASP are:

Level 1 - Network Constructor

Level 2 - Service Mains Constructor and Metering Installer

Level 3 – Designer

You must choose and engage the ASP(s) required and ensure that they carry out the connection works. You are liable to the ASP(s) directly for their charges in carrying out those connection works.

The ASP's quotations may or may not include some or all of the required fees and charges. It is your responsibility to be aware of all the likely costs that are associated with the work.

We list below some costs that may be associated with contestable activities and are payable to the ASP engaged by you:

- Environmental Impact Assessment preparation charge
- Design quotation
- Re-design quotation
- Construction quotation

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- Connection quotation (to connect a customer to the distribution network)
- Project definition cost
- Work outside the normal working hours (6:00am to 6:00pm)
- Switching fees
- Hiring and connection of generators

4.0 Payment Terms for our Connection Charges

Connection Charges payable to us in respect of Connection Services we provide must be paid to your ASP/2 who will pay those amounts to us on your behalf.

All cheques and guarantees must be made out to Endeavour Energy.

All fees and charges are to be paid in advance of the relevant activity.

Subject to regulatory approval, we may amend the fees and charges set out in the Network Price List from time to time by publishing the changes on the Endeavour Energy web site.

You should be aware of the cost implications associated with any proposed connection to the Endeavour Energy network. You should not commit to expenditure for a proposal that may prove to be impractical and not affordable.

For large or complex developments, you are urged to lodge a technical review request with us to determine availability of supply and preferred linkage points and to provide preliminary information to assist you in determining the feasibility of your proposals.



For obtaining electricity supply to a property in a rural location, we provide a free "order of costs estimating" service. The contacts for the Regional Services Manager and their telephone numbers are:

Northern region - (02) 9853 7639

For properties in Baulkham Hills, Blacktown, Blue Mountains, Hawkesbury, Holroyd, Hornsby, Lithgow, Parramatta, Penrith and Rylstone local government areas

Central region - (02) 9853 5628

For properties in Camden, Campbelltown, Fairfield, Liverpool, Wingecarribee and Wollondilly local government areas.

Southern region - (02) 4255 4022

For properties in Kiama, Shellharbour, Shoalhaven and Wollongong local government areas.

4.1 Reimbursement for work carried out on behalf of Endeavour Energy

You are responsible for all costs associated with the connection of electricity supply to a development.

Where you have carried out work on our behalf, you will be reimbursed in accordance with the reimbursement rates set at the time of design certification.

The HV and the duct reimbursement rates are listed in Fact Sheet 11 on our website www.endeavourenergy.com.au. Reimbursement for works not listed in the schedule will be negotiated.

Payment will be made to you or your nominee after:

- satisfactory completion of the works;
- payment of all fees and charges;
- for subdivisions, receipt of all the relevant documentations for the issue of a notification of arrangement; and
- receipt of a tax invoice claiming the reimbursement.

Written permission noted on the letter of intent is required from you to reimburse other parties.

4.2 Alterations to existing electricity networks

If you modify the development in a way that impacts the outcomes proposed by the certified electricity network construction drawings, we will not be liable for payment of reimbursements related to all of the works in question. We reserve the right to recover additional costs incurred as a result of modifications to a development, including all costs associated with the re-certification of the electricity network construction drawings.

5.0 Pioneer Cost Share Reimbursement Scheme

A pioneer cost share scheme applies under the AER's connection charge guidelines for electricity retail customers and Part E of Chapter 5A. Customers who have funded their own connection or network augmentations works where these will be used by another customer to connect to Endeavour Energy's network within seven years from the original connection are eligible to be reimbursed via the Pioneer Cost Share Scheme. Any connection works and network augmentations carried out by Endeavour Energy will not be eligible for a reimbursement under this scheme.

Each scheme applies for seven years from the date the original customer makes an application for connection works.

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Endeavour Energy has developed a brochure and letters to be used by a customer to advise their intent to be involved in a Reimbursement Scheme which is available upon request. Customers will be made aware that the Pioneer scheme exists and that all eligible customers will automatically participate in the scheme, unless a customer specifically indicates that they do not wish to participate.

Endeavour Energy will forward the reimbursement to the current owner of the premises after collecting the contribution from the customer who will be connecting to the Reimbursement Scheme network.

5.1 Establishment and administration of schemes

Endeavour Energy has established and administers the Scheme in accordance with this Section in relation to each original customer's works as defined below.

Original customer's works refers to the value of network assets procured or funded by an original customer, either as new works or augmentation works and where the application for network connection services, in which the liability for the original customer's costs was established, was received after 1 July 2002.

The Schemes will recognise different categories of assets for the purpose of calculating reimbursements from future customers utilising those assets. For example, if the original customer's works included a distribution line and a substation then the costs and details of the distribution line and substation will be recorded separately.

Endeavour Energy will bear the costs of establishing and administering the Schemes.

5.2 Contributions by further new customers towards connection works or network augmentations

Where, within seven years of the date of the original customer's application for customer connection services with respect to the original customer's works, a new customer requests customer connection services from Endeavour Energy, and in order to provide those network connection services to the new customer, Endeavour Energy will use all or any part of the original customer's works, the Reimbursement Scheme will apply.

In addition to paying for any connection works or network augmentations for which the customer is liable to pay Endeavour Energy, the new customer would be liable also to pay a proportion of the costs of the original customer's works, calculated in accordance with the cost share reimbursement calculations. The amount collected will be forwarded to the current land owner to which the original customer's works were being utilised.

Note: If the original customer qualified as a large load customer, they will only receive reimbursements from other large load customers. The large load calculation for the subsequent or new customer will be carried out with respect to the rating of the original asset that was augmented by the original customer. This relates to those customers who do not meet the threshold for contributions as per above.

5.3 Cost share reimbursement calculations

The cost share reimbursement shall be calculated as follows:

Where the new customer's load (as specified in its application for customer connection services or assessed load) is equal to or less than 50 kVA, the cost share reimbursement will be the lesser of the pre-calculated reimbursement and the original customer's outstanding amount.

Where the new customer's load (as specified in its application for customer connection services or assessed load) is greater than 50 kVA, the cost share reimbursement will be the lesser of the pro-rata reimbursement and the original customer's outstanding amount.



The pre-calculated reimbursement is calculated:

Where the original customer's works are distribution line, an amount calculated in accordance with the following formula:

Cost of original customer's works x Depreciation Factor

Number of prospective new customers + original customer

Х

Length of original customer's works used by the new customer (km)	Х	CPI(2)
Total length of original customer's works (km)		CPI(1)

Where the original customer's works are works other than distribution line, an amount calculated in accordance with the following formula:

Cost of original customer's works x Depreciation Factor	Х	CPI(2)
Number of prospective new customers + original customer		CPI(1)

The original customer's outstanding amount is to be calculated as follows:

Cost of original customer's works x Depreciation Factor

Х

Number of prospective new customers less original customer	Х	CPI(2)
Number of prospective new customers + original customer		CPI(1)

LESS

The total cost share reimbursements paid to date by new customers to Endeavour Energy in respect of those works as at the date of the new customer's application for customer connection services.²

² Where this calculation results in a negative number it will be assumed to be zero for the purposes of reimbursements.



Cost of original customer's works is:

The value of the works calculated from the Endeavour Energy's asset valuation supplied as part of the certification package where an ASP carried out the original customer's works.

Number of prospective new customers is:

The effective number of new customers, including the original customer, that may use the works or any part of them during the reimbursement period.

This is determined in consultation with the original customer prior to construction of the proposed original customer's works, and taking into account all relevant factors including but not limited to the capability of the proposed works, the current number of properties that could potentially utilise those works, the current zoning of the area and any re-zoning proposals, any proposed subdivisions or development applications, and historical patterns of customer connection in similar areas.

Depreciation Factor is:

A straight line depreciation, over a twenty year asset life, to determine the current day depreciated value of the asset.

The depreciation factor is determined as follows: Deemed life (20 years) – asset age / Deemed asset life (20 years)

For example: Cost of line is \$12,000 and actual asset age is 2 years Depreciation factor is (20-2) / 20 = 0.9 Depreciated asset value is \$12,000 x 0.9 = \$10,800

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5.4 The pro-rata reimbursement

The pro-rata reimbursement is an amount calculated in accordance with the following formula:

Cost of original customer's works

Х

New utilisation of original customer's works x Depreciation Factor	Х	CPI(2)
Total utilisation of original customer's works		CPI(1)

New utilisation of original customer's amount is:

- (a) where the original customer's works are distribution line, a figure in kVA km, representing the new customer's expected load, in kVA (as specified in its application for customer connection services), multiplied by the length of original customer's works used by the new customer, in km; and
- (b) where the original customer's works are works other than distribution line, a figure in kVA, representing the new customer's expected load (as specified in its application for customer connection services).

Total utilisation of original customer's works is:

- (a) where the original customer's works are distribution line, a figure in kVA km, representing the total of the loads of each customer (including the original customer and the new customer) who use or will use the original customer's works, in kVA (as specified in their respective applications for customer connection services), multiplied by the length of distribution line constituting the original customer's works, in km; and
- (b) where the original customer's works are works other than distribution line, a figure in kVA, representing the total of the loads of each customer (including the original customer and the new customer) who use or will use the original customer's works (as specified in their respective applications for customer connection services).

5.5 Minimum reimbursement

Despite any other cost share reimbursement calculations a new customer is not liable to pay any cost share reimbursement to all existing customers if the amount is less than:

\$1000 x CPI(2)

CPI(3)

5.6 CPI adjustment

CPI(1) means the average of the consumer price indices (All Groups, All Capital Cities), published by the Australian Bureau of Statistics, for the previous 4 quarters immediately prior to the date that the original customer's works are completed.

CPI(2) means the average of the consumer price indices (All Groups, All Capital Cities), published by the Australian Bureau of Statistics, for the previous 4 quarters immediately prior to date of the new customer's application for customer connection services.

CPI(3) means the average of the consumer price indices (All Groups, All Capital Cities), published by the Australian Bureau of Statistics, for the 4 quarters ending 30th June 2012.



Despite any other cost share reimbursement calculations:

- (i) The pre-calculated reimbursement, the pro-rata reimbursement and the original customer's outstanding amount are deemed not to include any references to CPI in the case where the beginning of the relevant period for the calculation of CPI(2) is less than 12 months after the end of the relevant period for the calculation of CPI(1);
- (ii) The Minimum reimbursement is deemed not to include any references to CPI in the case where the beginning of the relevant period for the calculation of CPI(2) is less than 12 months after the end of the relevant period for the calculation of CPI(3); and
- (iii) in the event that all the relevant information to calculate CPI(2) has not been published by the Australian Bureau of Statistics at the time of a new customer's application for customer connection services then the most recent available rates will be used, (i.e. the rates applicable to the previous quarter).

5.7 Reimbursement payments

Where a new customer pays to Endeavour Energy an amount towards the Cost Share Reimbursement, Endeavour Energy will, as soon as practicable after receiving that amount, repay that amount to the then current owner of the premises to which the original customer's works were connected.

Where there are two or more customers constituting the original customer, as a result of Endeavour Energy requiring those customers to procure and fund works together, the repayment by Endeavour Energy pursuant to reimbursement payments must be divided between those customers in accordance with the proportions in which they funded the works.

5.8 Obligation to notify

Endeavour Energy will notify all new customers who apply to Endeavour Energy for customer connection services and who may be obliged to make reimbursements under an existing reimbursement scheme, and all ASPs known to Endeavour Energy who are likely to have customers who will so apply, of the existence of the reimbursement scheme and that connecting customers may be obliged to contribute towards reimbursement.

Customers who have funded their own connection works and network augmentations and which will be used by another customer to connect to Endeavour Energy's network within seven years from the original connection, are eligible to be reimbursed via the Pioneer Cost Share Scheme.

Endeavour Energy will also notify original customers to which reimbursement applies of the existence of the Reimbursement Scheme and that they may be entitled to receive a reimbursement.

5.9 Subdivisions and multi-occupant developments

If a proposed subdivision is undertaken in a Reimbursement Scheme location, the applicant will be required to make payment to comply with the Reimbursement Scheme for connection to the network in the same manner that applies for connection of loads.

Subdivision applicants (including strata title subdivisions) will not be eligible to receive reimbursements as original customers.

The load associated with such applications, for the purposes of cost share reimbursement calculations and the pro-rata reimbursement will be determined by Endeavour Energy.

Reimbursements paid by multi-occupant applicants will be regarded as payments on behalf of the declared occupants of the development and no further reimbursements will be required from those occupants when they apply for connection of load.



Further applications for provision of an electricity network or connection of load for premises that benefit from but were not declared in a previous Application for Provision of an Electricity Network may be eligible to pay reimbursements to an original customer.

6.0 Contracting with us for our Connection Services

A connection of load application is required for all new load, and increases in load requiring an upgrade or augmentation to service lines, consumer's mains, switchboard, metering or the upgrade to the number of phases supplying an installation.

Generally if you wish to connect a typical low voltage load under 100A single phase or under 63A three phase in an existing urban area, you will be provided a connection offer under a Low Voltage Basic Connection Service regardless of whether we are required to carry out extensions or augmentation works to the network in order to facilitate the connection.

There are also many other types of low voltage connections such as loads in non-urban (rural, village etc.) or loads above 100A single phase or 63A three phase that may also be offered a Low Voltage Basic Connection Service if it is assessed that the connection can be supported by the network without the need to extend or augment the network.

Any augmentation or extension to the network required to allow a connection that has been provided with a basic connection offer will be undertaken and funded by us.

In cases where the non-urban or larger low voltage loads are assessed as needing augmentation or extension works to the network, you will be issued a connection offer for a Standard Connection Service.

When considering applications, we will determine which areas are urban and rural based on the criteria as specified within the definition of rural and urban below and the local government planning instruments.

It is intended that if land is zoned urban, non-urban or rural then we will apply the relevant policy accordingly. If, however, the land zoning is of a different nature without reference to urban or non-urban or rural (e.g. Residential 1A, 1B etc. or residential bushland conservation), we will determine whether an urban or non-urban classification is appropriate. As a guide, lots of greater than 4,000m² should be considered to be non-urban, unless they are specifically within a commercial or industrial development.

Rural (Non-urban) is that part of a network:

- where the average demand on the high voltage (HV) feeders is less than 0.3 MVA / km; or
- that is in an area zoned as rural under a local environmental plan [made under the Environmental Planning and Assessment Act 1979 (NSW)]; or
- that is in an area that is predominantly used for agricultural purposes.

Urban network means that part of a network that is not a rural network.

Due to additional safety and operational constraints that are associated with high voltage installations and temporary builders supplies, these connection services are offered as standard connection services only.

The terms and conditions applicable to a connection to our network are set out in our suite of Model Standing Offers for specific connection services:



6.1 Low Voltage Basic Connection Service

Urban loads less than 100A single phase, 63A three phase; and all other LV loads having been assessed by us as not requiring augmentation or extension of the network in order to connect.

An offer for a Low Voltage Connection Service will generally assume that the network is capable of direct connection of a low voltage service by a Level 2 Accredited Service Provider.

6.2 Standard Connection Service

Permanent Low Voltage connections not defined as a Low Voltage Basic Connection Service. This includes all connections in non-urban areas and other low voltage loads that cannot be connected to the existing network unless network extension or augmentation work is undertaken.

6.3 Temporary Builders Supply

Temporary supply arrangements made to allow the connection and supply of electricity for the purpose of development of a site. Temporary builder's supplies are not an approved supply arrangement for continued supply of a site.

If you require a temporary electricity supply, where adequate electricity supply cannot be made available to a development (or part of a development) by permanent connection to the existing network, you will pay all costs associated with the establishment of the electricity supply. In addition an appropriate bond will be required by us to ensure the eventual removal of all temporary connection assets as required.

Your responsibility will include the creation of easements or the negotiation of any permissive occupancy required to provide a suitable right of property tenure regarding the electrical connection and ongoing operation and maintenance.

6.4 High Voltage Connection Service

If the load is unable to be supplied at low voltage due to capacity or other technical constraints, then consideration may also be given to providing supply at a higher voltage.

Installations that may be technically complex or large may be required to connect to the high voltage network at voltages from 11,000 volts to 132,000 volts.

The following will be considered when determining suitability for the provision of supply at high voltage:

- The proposed load to be connected at high voltage or the existing site must be a single customer site. Multiple occupant developments such as subdivisions, shopping centres, factory units, distribution centres, etc. are not entitled to high voltage connections.
- The proposed load may cause a quality of supply problem to existing customers. Connecting at a higher voltage will reduce the impact of the connecting load on the customers.
- The proposed load is either remote from the network or of such magnitude or operational complexity that it is best supplied directly from the high voltage network with further distribution being undertaken within the installation by the customer.

If you have an existing connection and it is agreed that you require supply at a higher voltage, then it may be possible for you to purchase existing assets located on your premises from us, which will form part of your high voltage system.

All assets within your high voltage system must comply with *Australian Standard AS / NZS 3000:2000* or other standards and associated requirements. It may be necessary for assets purchased from us to be altered to comply with these standards. This work will be your responsibility and will be inspected by us.

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The provision of supply at high voltage requires you to enter into special arrangements with us for the ongoing operation and maintenance of supply. These arrangements will be discussed with you at the time of application and result in an agreed high voltage operating protocol. This protocol will also include any site specific conditions.

National Electricity Rules compliant metering will be provided by you at the voltage of supply. Metering at a lower voltage is not permissible under AEMO provisions.

The assets required to comply with our supply voltage and security standard should be funded by the you to maintain an uninterrupted supply to the end customer.

6.5 Micro Embedded Generator Connection Service

Small scale renewable energy micro generation systems must be connected to the network via an inverter which complies with AS4777 - *Grid connection of energy systems via inverters* and has a capacity no more than 10kW for single phase connections or 30kW for three phase connections.

In order to connect a small scale renewable energy micro generator you must first be an existing retail electricity customer and have an installation, such as a home which is already connected to the network.

If you are not a retail customer or do not have an existing connection to our network you must first establish that connection by choosing a retailer of your choice and establishing a connection by applying for a connection of load. Naturally both applications can be submitted together.

If you are an existing customer wishing to connect a small scale renewable energy generation system to our network, you must submit an application for connection of a generator.

The terms and conditions applying to connection of a micro embedded generator to our network are set out in our Model Standing Offer for a Micro Embedded Generator Connection Service.

6.6 Subdivision and Multi Occupant Development

All new real estate subdivision developments including dual occupant Torrens title subdivisions (excluding Strata developments) are assessed and are offered connection services under the Terms and Conditions of our Model Standing Offer for a Standard Connection Service (Subdivision and Asset Relocation).

All Strata title developments are assessed and offered either a Low Voltage Basic Connection Service if no extension or augmentation work is required or a Standard Connection Service where augmentation or extension of the network is required to facilitate connection of the lots being developed.

A separate connection of load application will be required for each unit in a strata development.

The local council may require you to lodge a subdivision application, a development application and building application, depending on the scope of the development. The local council may also impose conditions of consent, which must be met before development can proceed.

In most cases one condition of consent will be that you must obtain a Notification of Arrangement (NOA) from us. This NOA serves to indicate that you have made the necessary arrangements to provide electrical services to your development and that you have met the costs and any other servicing requirements identified by us.

Once all local council conditions of consent including our requirements have been met you will be able to register the subdivision plan with the Land Titles Office.



6.7 Asset Relocation/Removal

The removal or relocation of our network assets by you may be approved by us if assets will be relocated or removed under the following circumstances:

- to make way for new or modified infrastructure in a development;
- to provide safety clearances as a result of a changed environment;
- to move assets as a result of changed property boundaries;
- to maintain appropriate lighting levels due to a changed environment; or
- to remove assets as a result of redundancy.

It should be noted that the removal of any assets with associated registered easements on private property does not guarantee that the easements will be relinquished. Separate agreement regarding the relinquishment of the easements and acceptance of the commercial terms must be concluded prior to any easements being released.

We will ensure that approval to release a network easement is subject to the assessment of the network and monetary values of the easement to us.

Endeavour Energy has a separate detailed policy for the release of network easements that facilitates the following objectives:

- to protect existing and future network requirements;
- to avoid unnecessary sterilisation of land;
- to identify and obtain appropriate monetary value; and
- to ensure consistency in dealing with affected property owners.

Where it is considered that a network easement has network value, alternative arrangements that would provide an equivalent level of network security must be approved by us and be provided by you.

There are a number of commonly encountered cases where no easement release payments are required:

- Where the terms of the network easement stipulate that no compensatory release payment is
 required and we have executed the easement document.
- Where we deem that the cost of providing alternative network security is greater than or equal to 75% of the current easement value.
- Where a development project requires the relocation or replacement of distribution assets that
 provide supply to the development at the same linkage point voltage.
- Where the affected land is subject to dedication as public road.
- Where the network easement contains an error or omission in the easement document or survey plan and will be replaced by a new network easement.
- Where an easement has been incorrectly or inappropriately vested in us, for example, service easement, pedestrian rights to meter box.
- Where an asset relocation project requires the removal of distribution assets that have predominantly supplied the project land and that land no longer requires supply.
- Where an exemption for special circumstances has been requested by the Network Connections Branch and agreed to by the General Manager Network Operations.



Generally for cases where there are no exemptions regarding payments for the release of easements the network easement will be released subject to an easement release payment by you that is equivalent to 75% of the current easement value (plus GST) less the cost of providing the alternative network security including replacement easements and asset value for replacement assets. If the easement is determined to be a minor blot on title the easement may be released for a fixed fee.

More information regarding the release of easements can be found in Endeavour Energy's Easement Release Policy.

6.8 Special Small Service (Unmetered Supply)

All applications for special small services are assessed and, if acceptable, are offered connection services under the Terms and Conditions of our Model Standing Offer for a Standard Connection Service.

Special small services are usually small loads established in public places such as the road reserve and require additional installation criteria to services supplying private property.

These typically include bus shelters, public conveniences, public telephones, communications equipment, locality signs etc. and must be installed in accordance with the requirements detailed in the Service and Installation Rules of NSW.

Special small services are often unmetered however metering may be required in some instances. There must be an existing electricity account associated with a metered supply. For unmetered supplies the load and duty cycle must be known.

We have a separate detailed policy for connection of public lighting assets to our network.

6.9 Small and Medium Embedded Generator Connection Service

All applications for small and medium sized embedded generators as defined by the National Electricity Rules are assessed and if:

- the embedded generator has a capacity of between 10kW and 5MW and is exempt by AEMO from the requirement to register as a generator in accordance with section 2.2.1(c) of the National Electricity Rules and guidelines issued by AEMO under that section, then you will be offered connection services under the Terms and Conditions of our Model Standing Offer for a Standard Connection Service, and the specific provisions relating to embedded generation set out in Schedule 3 of that offer will apply to you; or
- the embedded generator has a capacity of between 5MW and 30MW, then we will offer you a negotiated connection service.

The operation of these generators may affect other customers connected to the network so a detailed technical review of the network's capacity to transfer the generation energy along with analysis of generator protection schemes and quality of supply considerations must be undertaken in accordance with the terms and conditions of the relevant connection.

For generation systems up to 1MW a connection at LV is often possible with minimal technical analysis being required. However, generators with capacities in the range 1-5MW would normally be connected at high voltage and larger generators connected at transmission voltages.

If you are a generator applicant, you may need to provide your own analysis of the generator's capability and operational performance. You will also be requested to fund the cost of us undertaking network studies required to assess the performance of the generation system and the effects on the network and other connected customers. The extent of analysis increases with generator capacity as does the connection requirements. A suitable connection arrangement will be developed through the connection process.



6.10 Your Right to Negotiate

You also have a right to negotiate your connection contract with us where:

(1) the connection service sought by you is neither a basic connection service nor a standard connection service; or

(2) the connection service sought by you is a basic connection service or a standard connection service but you elect to negotiate the terms and conditions on which the connection service is to be provided.

The negotiations may, if you elect, extend to supply services available from the Distribution Network Service Provider. For more information on negotiation of connection services, review the Endeavour Energy Negotiation Framework.

6.11 Property Tenure Guidelines for Contestable Works

Where assets are constructed as part of the contestable works process and located on private property our right of access to that property must be secured to allow maintenance and operational activities to proceed. This is achieved by obtaining an easement over the property where our assets are located. Please refer to the Endeavour Energy website for information on our property tenure requirements.

7.0 Contractual process and ASP interaction

We are committed to providing an efficient service for processing of applications, enquiries and processing of contestable works activities for our customers.

We have developed and monitor key performance indicators which are a measure of the maximum allowable time for processing. For information on our contractual process and ASP interaction, please visit our website at <u>www.endeavourenergy.com.au</u>.

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Appendix 1 - Ancillary Network services

1. Design information

The provision of information by a DNSP to enable an ASP accredited for level 3 work to prepare a design drawing and to submit it for certification.

This may include without limitation:

1. deriving the estimated loading on the system, technically known as the ADMD (after diversity maximum demand). This estimate depends on such factors as the number of customers served and specific features of the customer's demand

2. copying drawings that show existing low and high voltage circuitry (geographically and schematically) and adjacent project drawings

3. specifying the preferred sizes for overhead wires (conductors) or underground wires (cables)

4. specifying switchgear configuration type, number of pillars, lights etc

5. determining the special requirements of the DNSP's planning departments necessary to make electrical supply available to a development and cater for future projects

6. any necessary liaison with designers associated with assistance in sourcing design information and developing designs

7. nominating network connection points.

2. Design certification

A certification by a DNSP that a design (if implemented) will not compromise the safety or operation of the DNSP's distribution system.

This may include, without limitation:

- 1. certifying that the design information/project definition have been incorporated in the design
- 2. certifying that easement requirements and earthing details are shown

3. considering design issues, including checking for over-design and mechanisms to permit work on high voltage systems without disruption to customers' supply (adequate low voltage parallels)

4. certifying that funding details for components in the scope of works are correct

5. certifying that there are no obvious errors that depart from the DNSP's design standards and specifications

6. certifying that shared assets are not over-utilised to minimise developer's connection costs and that all appropriate assets have been included in the design

7. auditing design calculations such as voltage drop calculations, conductor clearance (stringing) calculations etc

8. certifying that a bill of materials has been submitted

9. certifying that an environmental assessment has been submitted by an accredited person and appropriately checked.

3. Design rechecking

The rechecking of a design submitted under section 1.2.2, except where the modifications to a design are of a trivial or minor nature.

4. Inspection of service work (level 1 work)

The inspection by a DNSP of work undertaken by an ASP accredited to perform level 1 work, for the purpose of ensuring the quality of assets to be handed over to the DNSP.



5. Inspection of service work (level 2 work)

The inspection by a DNSP of work performed by an ASP accredited to perform level 2 work, complying with the condition below.

Condition

The minimum number of inspections required must correspond to the grade of the DNSP in table G.1 below:

Table G.1: Inspection rate

Grade	Number of inspections
A	1 inspection per 25 jobs
В	1 inspection per 5 jobs
С	Each job to be inspected

6. Re-inspection of level 1 or level 2 work

The re–inspection by a DNSP of work (other than customer installation work) undertaken by an ASP accredited to perform level 1 or level 2 work, for the reason that on first inspection the work was found not to be satisfactory.

7. Re-inspection of work of a service provider

The re-inspection by a DNSP of customer installation work undertaken by a service provider for the reason that on first inspection the work was found not to be satisfactory.

8. Access permit

The provision of a permit by a DNSP to a person authorised by law to work on, or near, a distribution system.

This may include without limitation:

- 1. researching and documenting the request for access
- 2. documenting the actual switching process
- 3. programming the work
- 4. control room activities
- 5. fitting and removing of operational earths
- 6. the actual switching together with any operator's transport costs
- 7. identification of any customers who will be interrupted

8. low voltage switching and paralleling of substations that permits high voltage work without disrupting supply to other customers.

9. Substation commissioning

The commissioning by a DNSP of a new substation, (whether it is a single pole, padmount/kiosk or indoor/chamber) and includes:

1. all necessary pre–commissioning checks and tests prior to energising the substation via the high voltage switchgear and closing the low voltage circuit breaker, links or fuses and 2. the setting or resetting of protection equipment.



10. Administration

Work of an administrative nature (not including work of an administrative nature described in section 11), involving the processing of level 1 and/or level 3 work where the customer is lawfully required to pay for the level 1 and /or level 3 work.

This may include without limitation:

- 1. checking supply availability
- 2. processing applications
- 3. correspondence from application to completion
- 4. record-keeping
- 5. requesting and receiving fees (initially, then prior to design and after certification)
- 6. receiving design drawings (registering and copying)
- 7. raising an order for high voltage work
- 8. calculating high voltage reimbursements
- 9. calculating the cost of a project and warranty/maintenance bond
- 10. organising refunds to developers for high voltage work
- 11. liaising with developers via phone and facsimile
- 12. updating geographic information systems (GIS) and mapping.

11. Notice of arrangement

Work of an administrative nature performed by a DNSP where a local council requires evidence in writing from the DNSP that all necessary arrangements have been made to supply electricity to a development.

This may include without limitation:

- 1. receiving and checking linen plans and 88B Instruments
- 2. copying linen plans
- checking and recording easement details
- 4. preparing files for conveyancing officers
- 5. liaising with developers if errors or changes are required
- 6. checking and receiving duct declarations and any amended linen plans and
- 88B Instruments approved by a conveyancing officer
- 7. preparing notifications of arrangement.

12. Access

The provision of access to switchrooms, substations and the like to an ASP who is accompanied by a member of staff of a DNSP, but does not include the circumstance where an ASP is provided with keys for the purpose of securing access and is not accompanied by a member of staff of the DNSP.

13. Authorisation

The annual authorisation by a DNSP of individual employees or sub–contractors of an ASP to carry out work on or near the DNSP's distribution system.

This may include without limitation:

- 1. familiarisation and training in the DNSP's safety rules and access permit requirements
- 2. induction in the unique aspects of the network

3. verification that the applicant has undertaken the necessary safety training (resuscitation etc) within the last 12 months



4. conducting interviews/examinations for access permit recipients 5. issuing authorisation cards.

14. Site establishment

The issue of a meter by a DNSP and its co-ordination with AEMO for the purpose of establishing a NMI in MSATS for new premises or for any existing premises for which a requires a new NMI and for checking and updating network load data.

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